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November 6, 2015

Matthew Aufman
NCDENR - Division of Waste Management
217 West Jones Street
Raleigh, North Carolina 27603

Subject: **Remedial Investigation Report**
Engineered Controls International, LLC (ECI)
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina
Docket No. 14-SF-383
NONCD0002903

Dear Mr. Aufman: ***Via Electronic Transmittal***

On behalf of ECI, ERM NC, Inc. (ERM) is transmitting this *Remedial Investigation Report* for the referenced ECI facility located in Whitsett, North Carolina. If you have questions or comments regarding this report, please contact ERM at 704-541-8345.

Sincerely,

Edward Hollifield, P.G.
Project Manager

Thomas Wilson, P.G., RSM
Principal

cc: Jimmy McCandies - ECI

Attachments:
Remedial Investigation Report – November 2015

REMEDIAL INVESTIGATION COMPLETION CERTIFICATION
15A NCAC 13C.0306(b)(5)(B)

Media (check all that apply): ☐ All Media ☑ Soil ☑ Ground water ☐ Surface water ☐ Sediment

REC is in compliance with both 15A NCAC 13C .0305(b)(2) and .0305(b)(3): [check] ☑

Site Name	Engineered Controls International - Whitsett	Street Address	239 Rock Creek Dairy Rd
County	Guilford County		Whitsett, North Carolina
Site ID No.	NONCD0002903 Docket No. 14-SF-383		

The remedial investigation, which is the subject of this certification has, to the best of my knowledge, been completed in compliance 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.

Thomas M Wilson	11-6-2015
RSM Signature	Date
Tom Wilson	
RSM Name	
ERM NC, PC	15720 Brixham Hill Ave
REC Name	Mailing Address
00055	Charlotte, NC 28277
REC No.	City, State, ZIP

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 certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 6 day of November, 2015.

Debra C Pressley
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 10/27/2017

DEBRA C PRESSLEY
Notary Public
North Carolina
Union County

Work Phase Completion Form No. WPC – II
(Revised 12/13)

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME Engineered Controls International - Whitsett (Docket No. 14-SF-383, NONCD0002903)
DATE & NAME OF DOCUMENT November 5, 2015 Remedial Investigation Report
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, PG, RSM
Name of Registered Site Manager

Thomas M Wilson 11-6-2015
Signature of Registered Site Manager 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, PG, RSM
Name of Registered Site Manager

Thomas M Wilson 11-6-2015
Signature of Registered Site Manager 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 6 day of November, 2015

Debra C Pressley (OFFICIAL SEAL)
Notary Public (signature)

My commission expires: 12/27/2017

DEBRA C PRESSLEY
Notary Public
North Carolina
Union County

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

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2

IHSB SITE NAME Engineered Controls International - Whitsett (Docket No. 14-SF-383, NONCD0002903)

DATE & NAME OF DOCUMENT November 5, 2015 Remedial Investigation Report

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."

Mr. Jimmy McCandies

Name of Remediating Party

Jimmy McCandies

Signature of Remediating Party

11-06-15

Date

NOTARIZATION

North Carolina (Enter State)

Alamance COUNTY

I, Patricia T. Hill, a Notary Public of said County and State, do hereby certify that Jimmy McCandies did personally appear and sign before me this day, produced proper identification in the form of personally known, 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 6th day of November, 2015.

Patricia T. Hill

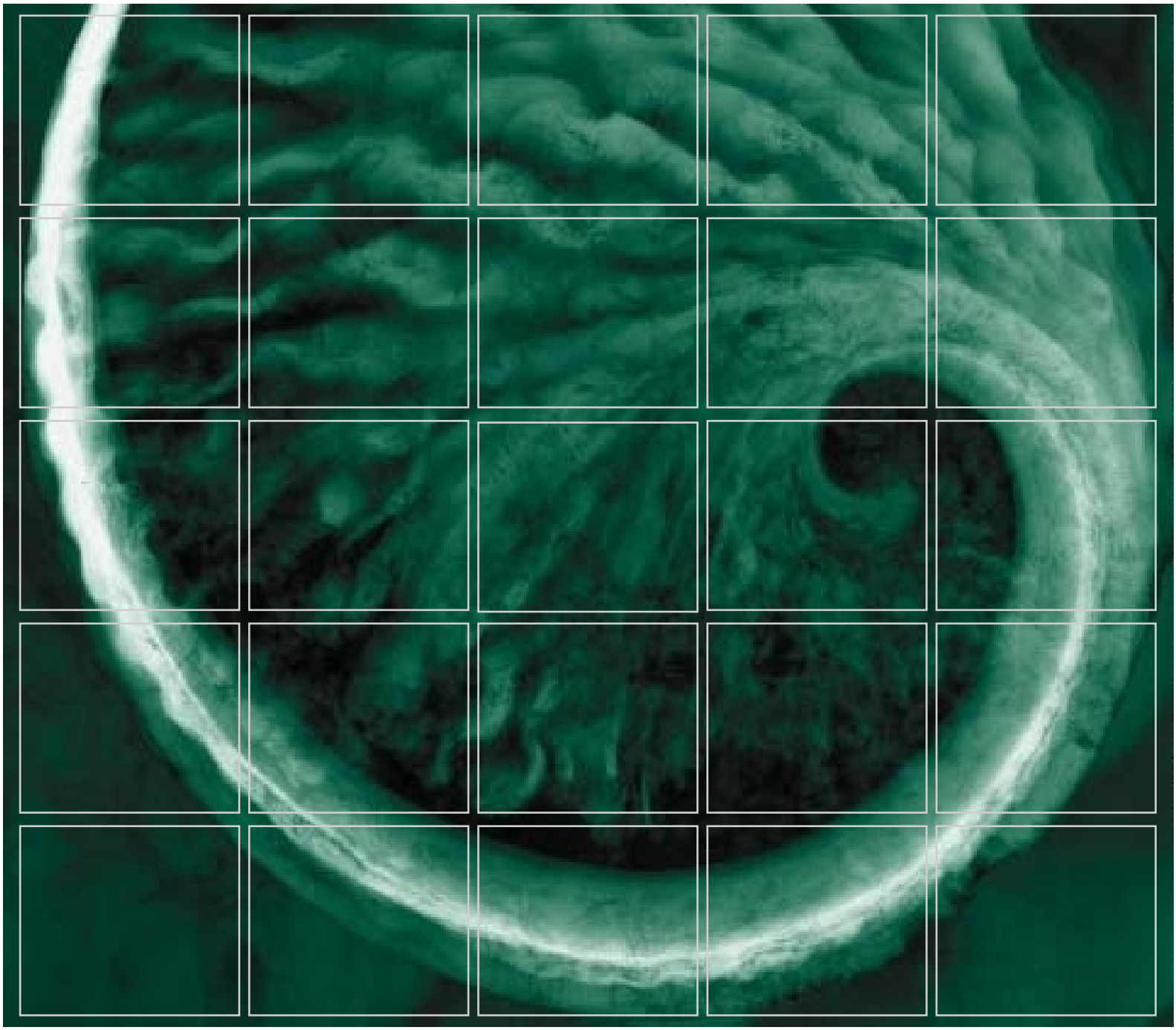
Notary Public (signature)

(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



Engineered Controls International, LLC

Remedial Investigation Report
November 2015

Engineered Controls International, LLC
Whitsett Facility
1239 Rock Creek Dairy Road, Whitsett,
Guilford County, North Carolina
Site ID: NONCD0002903
Docket No. 14-SF-383

Delivering sustainable solutions in a more competitive world

ERM

Engineered Controls International, LLC

Remedial Investigation Report

Engineered Controls International, LLC
Whitsett Facility
1239 Rock Creek Dairy Road, Whitsett, Guilford County, North Carolina
Site ID: NONCD0002903
Docket No. 14-SF-383

November 6, 2015

Project No. 0235369

Edward B. Hollifield, P.G.
Project Manager

Thomas M. Wilson, PG, RSM
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ACRONYMS AND ABBREVIATIONS

µg/kg	micrograms per kilogram
µg/L	micrograms per liter
AA	Administrative Agreement
AOCs	areas of concern
AS/SVE	air sparge / soil vapor extraction
BG	background
COCs	contaminants of concern
DCA	dichloroethane
DPT	direct push technology
ECI	Engineered Controls International, Inc.
EPA	Environmental Protection Agency
ERM	ERM NC, Inc.
ft bls	feet below land surface
ft msl	feet mean sea level
HSA	hollow-stem auger
HSL	Hazardous Substance List
IDW	Investigation derived waste
IHSB	Inactive Hazardous Sites Branch
mg/kg	milligrams per kilogram
Mn	manganese
NCAC	North Carolina Administrative Code
NCAC 2L	North Carolina groundwater standards
NCDENR	North Carolina Department of Environment and Natural Resources
NCDEQ	North Carolina Department of Environmental Quality
OSHA	Occupational Safety and Health Administration
PCE	tetrachloroethene
PELs	Permissible Exposure Limits
PID	photoionization detector
PSRGs	Preliminary Soil Remediation Goals
PVC	polyvinyl chloride
PWR	partially weathered rock
QA	Quality Assurance
QC	Quality Control
RAP	Remedial Action Plan
REC	Registered Environmental Consultant
RI	Remedial Investigation
SAEDACCO	South Atlantic Environmental Drilling and Construction Company
SPLP	Synthetic Precipitation Leaching Procedure
SVOCs	semi-volatile organic compounds
TCE	trichloroethene
TICs	Tentatively identified compounds
TOC	total organic carbon
VI	vapor intrusion
VOCs	volatile organic compounds

1.0 INTRODUCTION

ERM NC, Inc. (ERM) has prepared this Remedial Investigation (RI) Report on behalf of Engineered Controls International, Inc. (ECI). This document 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 Environmental Quality (NCDEQ) Division of Waste Management Superfund Section and Engineered Controls International (the Remediator), Docket Number 14-SF-383 executed on June 3, 2014.

This RI Report presents the results of the environmental investigation activities performed at the ECI facility located at 1239 Rock Creek Dairy Road in Whitsett, Guilford County, North Carolina (hereafter called the "Site" or "subject property"), identified as North Carolina site NONCD0002903. Investigation activities were conducted in accordance with the *Remedial Investigation Work Plan* (ERM May 2014) and two *Remedial Investigation Work Plan Addendums* (ERM September 2014 & June 2015), which were designed to identify and characterize the nature and extent of releases of hazardous substances at the Site. Also included in this RI report where appropriate, are groundwater data collected during the completion of an air sparge / soil vapor extraction (AS/SVE) pilot test. The AS/SVE test was completed in accordance with the *AS/SVE Pilot Test Work Plan* (ERM November 2014). Detailed pilot test results will be included in the pending Remedial Action Plan (RAP), which will be submitted to the NCDEQ under separate cover.

This RI Report has been prepared to meet the specific requirements of the *Registered Environmental Consultant Program Implementation Guidance* (North Carolina Department of Environment and Natural Resources (NCDENR), updated December 2013) (hereafter "REC Guidance"), the requirements for RI Reports contained in the North Carolina Administrative Code (NCAC) Title 15A 13C .0306(h), and the referenced AA. Investigation activities comply with the REC Guidance document and the U.S. Environmental Protection Agency (EPA) Region 4 Field Branches Quality System and Technical Procedures.

2.0 BACKGROUND INFORMATION

2.1 SITE DESCRIPTION

The Site is located at 1239 Rock Creek Dairy Road in Whitsett, Guilford County, North Carolina, 27377. 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 36.05332° north; longitude 79.59846° west. A property layout map of the Site is provided as Figure 2. A previously conducted initial Site survey and supplemental surveys completed after the RI activities are provided in Appendix A. The Site is surrounded by a mix of commercial/industrial and undeveloped properties as shown on Figure 3. Photos of the Site are shown in Appendix B.

2.2 CURRENT USES OF VICINITY GROUNDWATER

The site and nearby properties obtain potable water through the City of Greensboro municipal supply. The City of Greensboro obtains its drinking water from three surface water bodies including:

- Lake Townsend located approximately 12.2 miles northwest of the Site;
- Lake Brandt located approximately 15.7 miles northwest of the Site; and
- Lake Higgins located approximately 17.7 miles northwest of the Site.

During June 2014 environmental assessment activities, ERM conducted a water supply well survey for wells located within ½-mile of the subject property. A visual survey was augmented by interviews with occupants and Guilford County representatives, Google aerial and street level maps, and information from public environmental databases.

Results of the survey indicate the subject area is served by the City of Greensboro; however, an environmental database identified 2 wells within ½ mile of the subject property. Neither well could be located by visual observation and both are believed to be abandoned. Sensitive receptors identified during the survey are shown on Figure 4.

2.3 PREVIOUS INVESTIGATIONS

Soil and Groundwater

Previous investigations at the site were conducted by MACTEC in 2009 and GaiaTech in 2010-2013. A detailed summary of previous environmental activities

was provided in the *Remedial Investigation Work Plan* (ERM May 2014). Copies of previous reports referenced herein are on file with the Inactive Hazardous Sites Branch (IHSB) of the NCDEQ in Raleigh, North Carolina. Summaries of historical analytical results for soil and groundwater from the previous investigations are included in the analytical data tables presented in Section 6.0 (Summary of Findings) along with the analytical results of the current assessment activities and noted accordingly. The locations of the historical monitor wells and soil borings are included on Figure 5.

Based on a review of historical Site operations, hazardous substance use, waste management information and the results of previous site assessment activities, potential contaminants of concern (COCs) for the Whitsett site are volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and select Hazardous Substance List (HSL) metals. Impact from these main classes of contaminants has the potential to affect soil, groundwater and indoor air at the Site. Surface water and sediment are only present in a man-made stormwater retention pond located on the eastern portion of the Site. Therefore, these media are not considered under this RI.

Vapor Intrusion Evaluation

As part of initial assessment activities, a limited vapor intrusion (VI) assessment was conducted at the Site by a previous consultant (GaiaTech) between July 2011 and March 2013 that included soil gas screening of soil vapor concentrations with results indicating a potential VI condition may be present in indoor air at the facility. The initial soil gas screening was followed by two rounds of indoor air sampling. Results of the initial indoor sampling results indicated various VOCs, including trichloroethene (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. Results of a second VI sampling indicated TCE was detected above the collective cancer risk screening value of 1.0E-04 or above the Hazard Index of 1 at select locations.

In February 2014, ERM conducted a material use survey and determined that TCE and possibly tetrachloroethene (PCE) containing products are used at the Site in *de minimis* quantities. The wide variability between results of the two indoor air sampling events 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. Thus, no additional VI assessment activities were conducted as part of the RI.

2.4 POTENTIAL AREAS OF CONCERN

Based on a review of the ECI operations history and the results of previous environmental investigations, the following three areas of concern (AOCs) were identified at the Site that warranted additional remedial investigation for the potential release of hazardous substances to soil and groundwater:

- AOC 1: Former Vapor Degreaser System;
- AOC 2: Wastewater Treatment Area; and
- AOC 3: Coolant and Metal Shaving Processing Area.

The three AOCs are shown on Figure 6. A summary of identified AOCs and additional assessment requirements for the REC program that were addressed during the current investigation is shown in the following table and discussed in Section 3.0.

AOC Status Prior to Remedial Investigation

AOC	Description	Analytical Parameters	Required RI Sampling Completion Status		
			Soil	Groundwater	Surface Water/ Sediment
1	***Former Vapor Degreaser System*** Process used 1989-1994 for parts cleaning	VOCs	Complete	**Incomplete**	N/A
		SVOCs	Complete	Complete	
		Metals	**Incomplete[1]**	Complete	
2	***Wastewater Treatment Area*** Treats wastewater in a small containment area	VOCs	Complete	Complete	N/A
		SVOCs	Complete	Complete	
		Metals	**Incomplete[1]**	Complete	
3	***Coolant and Metal Shaving Processing Area*** Includes coolant recycling, metal shaving separation from cutting oils, and metal shaving dumpsters.	VOCs	Complete	Complete	N/A
		SVOCs	Complete	Complete	
		Metals	**Incomplete[1]**	Complete	

[1]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 = Semi-volatile organic compounds

VOCs = Volatile organic compounds

Metals = Hazardous substance list metals

Remediation Activities

A release of cutting oil was reported at the site in September 1997. According to site representatives, the release occurred near a cutting-oil above ground storage tank that was not equipped with secondary containment. The tank was overfilled and the excess cutting oil migrated through an exterior wall located in the southeast corner of the building. Site representatives indicated that impacted soils were removed from the site and environmental database listings indicate that the release was "closed out".

3.0 RI ASSESSMENT ACTIVITIES

The remedial investigation activities were conducted in accordance with the *RI Work Plan* prepared by ERM in May 2014 and two *RI Work Plan Addendums* prepared by ERM in September 2014 and June 2015. RI activity completion dates are summarized below.

Summary of RI Activity Completion Dates

Date	Activity
Initial RI Workplan Efforts	
May 15 through 16, 2014	Utility locating and groundwater sampling of existing monitoring wells
May 21 through 22, 2014	Soil screening was conducted using hand auger and direct push technology (DPT) methods
May 27 and June 6, 2014	Permanent monitor well installation and sampling
RI Work Plan Addendum(s), and AS/SVE Pilot Test Work Plan	
September 26 through 29, 2014 November 12 through 20, 2014 June 4 through June 6, 2015 July 1 through July 10, 2015	Utility locating and additional delineation and AS/SVE pilot test well installations
October 15, 2104, January 8, 2015, August 4 through 6, 2015 and September 25, 2015	Groundwater sampling activities
November 3, 2014 and July 31, 2015.	Supplemental well surveys

DPT and permanent groundwater monitor well installation was completed by North Carolina licensed drilling company South Atlantic Environmental Drilling and Construction Company (SAEDACCO) of Clover, South Carolina. Laboratory analytical services were provided by Accutest Laboratories of Orlando, Florida (Accutest) and Shealy Environmental Services, Inc. (Shealy) of West Columbia, South Carolina. A summary of the completed RI assessment activities is presented in the table below and summarized in the following sections.

Summary of Assessment Activities

Location	Activity	Activity Summary	Sample Media		Sample Analyte Groups
			Soil	*GW*	
Site Wide	Well Survey	To create a groundwater potentiometric map for the Site, the monitor well coordinates, top of casing and ground surface elevations of existing onsite monitor wells were surveyed.	N/A		
Site Wide	Background HSL Metals Soil Sampling	To evaluate background metals concentrations, seven soil borings were completed with two depth-discreet soil samples for HSL metals analysis collected in each boring.	X		HSL metals

Location	Activity	Activity Summary	Sample Media		Sample Analyte Groups
			Soil	*GW*	
Site Wide	Comprehensive Groundwater Sampling Event	To confirm groundwater quality and evaluate concentration trends, a comprehensive groundwater-sampling event of existing monitor wells for VOCs was conducted. To establish background manganese concentrations, three upgradient groundwater samples were analyzed for total and dissolved manganese (Mn).		X	VOCs Total and Dissolved Mn (select wells)
Site Wide	Aquifer Testing	To estimate aquifer parameters and groundwater velocity, slug tests at four wells were conducted.		N/A	
0.5 mile radius of Site	Sensitive Receptor Survey	To meet sensitive receptor evaluation requirements, a walk around well survey and information request from Guilford County was conducted.		N/A	
North of Building	VOC Delineation in Groundwater	To delineate the lateral extent of the VOC-affected groundwater plume to the north of MW-9 and MW-10, MW-13 was installed off-site to the north across Franz Warner Parkway in September 2014, and MW-14 and MW-14D were installed to the northwest across Franz Warner Parkway in June 2015 To delineate the lateral extent of the VOC-affected groundwater plume to the east of MW-10, one upper bedrock Type III monitor well (MW-12) was installed northeast of the building in the eastern parking lot area.		X	VOCs
AOC 1 - Former Vapor Degreaser	VOC Delineation, SPLP Analysis, & Metals Evaluation	To refine delineation of VOC-impacted soil near WP-19 that may require remediation, six soil borings with eight depth discrete samples were collected. To develop site-specific soil remedial goals, five collocated depth discrete soil samples for Synthetic Precipitation Leaching Procedure (SPLP) analysis were collected. To complete the required metals evaluation in soil, one sample (GP-53@3') was collected for select HSL metals analysis. To monitor VOC-affected groundwater in the source area and vertically delineate the VOC plume, MW-11 (upper bedrock), DW-1 (intermediate bedrock type III) and DW-1D (lower bedrock type III) were installed. To further delineate the source area, nested monitor wells MW-15/DW-15, MW-16/DW-16/DW-16D and MW-17/DW-17/DW-17D were installed. Additionally and as part of the AS/SVE Pilot Testing activities, one air sparge (AS-1), one soil vapor extraction (SVE-1) and two nested observation wells (OB-1A/B, OB-2A/B) were installed and sampled. Select HSL metals in soil did not exceed background levels. Therefore, groundwater samples from the newly installed wells were not analyzed for HSL metals.	X	X	Total VOCs (soil & GW) SPLP VOCs (soil) Select HSL metals (soil) Select HSL metals (GW), if needed

Location	Activity	Activity Summary	Sample Media *Soil*	Sample Media *GW*	Sample Analyte Groups
AOC 2 – Wastewater Treatment Area	Soil Boring	A soil boring was attempted near WP-8. However, hand auger refusal was encountered at 1foot below land surface and no sample was able to be collected.	X		Select HSL Metals
AOC 3 - Coolant and Metal Shaving Processing Area	Soil Boring	To complete the required metals evaluation, a soil boring (WP-48) with one sample was installed near WP-9. The metals analysis was used to complete the requirement for AOC 2 and AOC 3.	X		Select HSL Metals
Site Wide	Groundwater Sampling (new wells only)	To evaluate delineation of VOC-affected groundwater, sampling of all newly installed groundwater monitor wells for VOCs was conducted.		X	VOCs
Site Wide	Monitor Well Surveys (new wells only)	To create a potentiometric groundwater map, surveys of the coordinates, top of casing elevation and ground elevation of newly installed monitor wells were conducted.	N/A		

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

3.1 SOIL ASSESSMENT ACTIVITIES

Current soil assessment activities consisted of installing a total of 16 soil borings at the Site, including seven background (BG) soil borings and nine soil borings installed in the referenced AOCs. The soil borings were completed by hand auger with the exception of the upper 5 feet of soil boring GP-50, which was initiated with a hand auger then completed to 12.5 feet below land surface (ft bls) using a DPT drill rig and WP-56, which was collected during the installation of nested monitor well MW-16. During installation, the soil borings were screened with a photoionization detector (PID) and logged by the field geologist. Boring logs are provided in Appendix C, and the locations of the new and historic soil borings are shown on Figure 7.

3.1.1 Background Sampling

Seven borings, BG-1 through BG-7, were installed in the wooded area on the east side of the Site to sample for and establish background concentrations of HSL metals. The borings were completed to depths ranging from 2 feet to 5.5 ft bls. Samples were collected at the terminal depth of each boring and analyzed for HSL metals by EPA Methods 6010B/7471.

ERM also reviewed the historic metals analyses of 'baseline' soil samples collected at four borings (WP-1 through WP-4) collected by GaiaTech in 2011. The four soil borings were installed in landscaped areas outside the building in

order to assess 'baseline' soil conditions at the Site. The soil samples from each boring were collected from the lower soil horizon at depths (10 to 21.5 ft bls) near the partially weathered rock (PWR) zone.

3.1.2 *AOC 1 – Former Vapor Degreaser System*

The former vapor degreaser system (AOC 1) was located in the northwestern portion of the manufacturing building and consisted of the degreaser unit and solvent tank that was filled using an overhead supply line and remote fill port located along an exterior wall of the northern loading dock. Six soil borings were completed in AOC 1, as described below.

Five soil borings (WP-51, WP-52, WP-53, WP-54, and WP-56) were completed in the area of the former vapor degreaser unit near previously completed soil boring WP-19, which had historically contained the most elevated concentrations of VOCs in unsaturated soil. PWR was encountered in each of the degreaser area soil borings at shallow depths, preventing the collection of soil samples below 4 ft bls in two of the borings and no soil samples from WP-52.

Two soil borings (WP-50 and WP-55) were completed at the northern loading dock area near the former degreasing unit remote fill port. Two samples were collected from WP-50 and one near surface soil sample was collected from WP-55, immediately under the former TCE remote fill port opening. A summary of the samples collected, depths and analysis is provided below.

Soil Boring Summary AOC 1

Soil Boring	Sample Depth (ft bls)	Analysis
Former Degreaser Area		
WP-51	4	VOCs, SPLP VOCs
WP-53	1	VOCs, SPLP VOCs
WP-53	3	VOCs, SPLP VOCs, select HSL Metals
WP-54	1	VOCs, SPLP VOCs
WP-56	3	VOCs, SPLP VOC
Remote Fill Port Location		
WP-50	4	VOCs
WP-50	12.5	VOCs
WP-55	0.5	VOCs and SPLP VOCs

No sample was collected from soil boring WP-52 due to encountering very shallow rock
SPLP – Synthetic Precipitation Leaching Procedure
Select HSL Metals – antimony, beryllium, copper, manganese, nickel, thallium and zinc

3.1.3 *AOC 2 – Wastewater Treatment Area*

One soil boring was advanced by hand auger in AOC 2 (WP-49) and a soil sample was collected at 3 ft bls for analysis for select HSL metals by EPA Methods 6010B/7471 to complete the metals analysis requirements for AOC 2.

3.1.4 AOC 3 – Coolant and Metal Shaving Processing Area

Soil boring WP-48 was attempted in AOC 3 using a hand auger to complete the evaluation for metals impact to vicinity soils in this area of the Site. However, gravel was encountered during the completion of this boring preventing the collection of a representative soil sample. As an alternative, the results of the HSL metals analyses of the soil sample collected from nearby boring WP-49 were used for metals evaluation of soil from AOC 3.

3.2 GROUNDWATER ASSESSMENT ACTIVITIES

Groundwater assessment and pilot test activities consisted of the installation of four, upper-bedrock, ten middle-bedrock and two deep-bedrock permanent monitor wells; conducting a site-wide groundwater monitoring event and conducting four slug tests. Details of the groundwater assessment activities are provided below.

3.2.1 Monitor Well Installation

One type III upper bedrock monitor well (MW-12) was installed east of existing monitor well MW-10 to evaluate the extent of the VOC-affected groundwater plume northeast and downgradient from AOC 1. Three off-site monitor wells were installed north of Franz Warner Parkway to delineate the northern extent of the VOC-affected groundwater plume: one type III upper bedrock monitor well (MW-13) was installed to the north on the Qualcaps property and two type III bedrock monitor wells (MW-14: middle bedrock aquifer zone) and (MW-14D: deep bedrock aquifer zone) were installed on the Rock Creek LLC Investments property to the northwest of the Site.

To determine the VOC concentrations in groundwater in the former vapor degreaser source area, one type III upper bedrock monitor well (MW-11) and two nested monitor wells screened in the upper, middle and lower bedrock aquifer zones (MW-16/DW-16/DW-16D and MW-17/DW-17/DW-17D) were installed inside the main building. Additionally and as part of AS/SVE pilot test activities, one AS well (AS-1) was installed in the middle bedrock aquifer zone, one SVE well (SVE-1) was installed in the upper bedrock aquifer zone and 2 associated nested observation wells (OB-1A/B and OB-2A/B) screened in the upper and middle aquifer zone respectively were sampled. The resultant data supplemented RI groundwater data in the immediate vicinity of the former vapor degreaser area and is thus included in this report for completeness. The well borings for all wells installed inside the facility building were advanced using a combination of rotary hollow stem, roller cone and core drilling methods.

One type III middle-bedrock monitor well (DW-1), one type III deep-bedrock monitor well (DW-1D) and one nested well pair (MW-15/MW-15D) were installed on the north exterior side of the building and hydraulically downgradient of the former vapor degreaser area. The middle and deep bedrock wells were installed to vertically delineate the VOC-affected groundwater plume.

Monitor well locations are shown on Figure 8. Boring logs and well construction/completion records are included in Appendix C.

Bedrock monitor well installations were accomplished by first using hollow-stem auger (HSA) drilling methods in saprolite and PWR until auger refusal was encountered. Once bedrock or auger refusal was encountered, air rotary or rotary core drilling methods were then used to advance the borehole through bedrock to the target completion depth. If groundwater was present above the top of bedrock, a nominal 4 or 6-inch diameter schedule 40 polyvinyl chloride (PVC) surface casing was installed and grouted with cement at each bedrock well location to isolate the upper saprolite or shallow bedrock aquifer zones from the intermediate or deep bedrock aquifer zone. The grout was then allowed to cure for a minimum of 24 hours before the boring was completed to depth to allow installation of the Type III wells in accordance the North Carolina well installation rules. During completion of MW-17/DW-17/DW-17D nested well, Approximately 15 feet (three flights) of the 4.25 inch I.D. augers became lodged in the borehole and could not be removed. The augers were grouted in place and used as an effective upper casing for this nested well. A summary of the new monitor well completion depths and construction is provided below.

Summary of Well Completion

Well	Well Diameter	Well Material	Surface Casing Size /Depth (ft bls)	Well Depth (ft bls)	Screened Interval (ft bls)
DW-1	2 -inch	PVC	6″/75	113	103 - 113
DW-1D	2-inch	PVC	6″/125	175	155 - 175
MW-11	2-inch	PVC	4″/30	60	45 - 60
MW-12	2-inch	PVC	6″/30	46	36 - 46
MW-13	2-inch	PVC	6″/31	90	80 - 90
MW-14	2-inch	PVC	6″/34	70	60 - 70
MW-14D	2-inch	PVC	6″/91	135	125 – 135
MW-15 MW-15D	1-inch nested	PVC	None	40 120	30 – 40 105 - 120
MW-16 DW-16 DW-16D	1-inch nested	PVC	4″/19.5	41 79 118.5	36 – 41 74 – 79 108.5 – 118.5
MW-17 DW-17 DW-17D	1-inch nested	PVC	4.25′ / 18 *(Steel auger and grout)*	50 79 111	45 – 50 74 – 79 106 – 111
AS-1	2-inch	PVC	None	64	54-64
SVE-1	4-inch	PVC	None	29	9-29
OB-1A/B	1-inch nested	PVC	None	30/70	10-30/58-73
OB-2A/B	1-inch nested	PVC	None	63/78	10-30/63-78

ft bls= feet below land surface

Each new monitor well was completed at the surface with a flush-mount bolt-down well vault. Each monitor well was tagged and labeled with the appropriate well designation, date of installation and total depth. Monitor well construction details are summarized in Table 1.

Well development procedures were not initiated until approximately 24 hours following completion of monitor well installation. Each newly installed monitor well was appropriately developed utilizing procedures outlined in the EPA's *Field Branches Quality System and Technical Procedures.*

3.2.2 *Groundwater Monitoring*

ERM conducted a site-wide groundwater monitoring event to augment existing data, assess groundwater quality concentration trends over time, and evaluate plume stability. On June 6, 2014, November 3, 2014, January 7, 2015, and August 6, 2015, the depth to groundwater levels were gauged in all Site monitor wells. Between May 15 and June 6, 2014, groundwater samples were collected from new and existing monitor wells and analyzed for VOCs including 1,4-dioxane by EPA Method 8260B. In addition, groundwater samples from selected monitor wells were analyzed for potential natural attenuation screening parameters including total iron, total manganese, nitrate, nitrite, sulfate, sulfide, total organic carbon (TOC) and field parameters including pH, temperature, dissolved oxygen, oxidation reduction potential, turbidity and specific conductivity. Samples collected from monitor wells MW-2, MW-3 and MW-5 were also analyzed for total and dissolved manganese. The samples analyzed for dissolved manganese were collected through a 10 micron filter to evaluate if the total suspended solids are contributing to the manganese concentration. The results were also compared to historical detections of manganese in groundwater. On October 15, 2014, January 8, 2015, August 4-5, 2015, and September 25, 2015, groundwater samples were collected from new and select existing monitor wells and analyzed for VOCs by EPA Method 8260.

3.2.3 *Slug Testing*

To evaluate Site aquifer parameters, slug test were conducted at four wells to determine aquifer parameters. Slug tests were performed at upper bedrock wells MW-4, MW-9, MW-10, and MW-11. A slug test is conducted by displacing a volume of water in the well and then measuring recovery to static water level over time. Using resultant data, hydraulic conductivities were calculated for each well using the following equation developed by Bower and Rice:

$$K = \frac{r_{o^2} ln(Re/r_w)}{2L_e} \times \frac{1ln(h_0/h)}{t}$$

Where:

K is hydraulic conductivity [L/T]
r_o is the radius of the well casing [L]
r_w is the radius of the well (including sand pack) [L]
R_e is the radial distance over which head is dissipated [L]
L_e is the length of the screen [L]
t is the time since h = h_o [T]
h_o is the drawdown at time t = 0 [L]
h is the drawdown at time t = t[L]

Results of the aquifer characterization are discussed in Section 4.2 and summarized in Table 2. Supporting slug test analysis is provided in Appendix D.

3.3 INVESTIGATION DERIVED WASTE

Investigation derived waste (IDW) including soil cuttings, purge and development water was drummed, labeled and temporarily stored during RI activities on-site to await disposal pending receipt of analytical results and waste characterization. Composite soil and water IDW samples were collected and submitted to Accutest and Shealy Laboratories for analysis. The results of IDW composite samples indicated that the IDW could be disposed as non-regulated waste. On October 15, 2014, 30 drums of IDW liquids and 60 drums of IDW soil cuttings were transported under Bill of Lading/Manifest number 25565 by A&D Environmental for disposal at the A&D Facility in Archdale, North Carolina (NCD986232221). IDW disposal from the most recent monitor well installation activities is pending.

4.0 HYDROGEOLOGY

4.1 REGIONAL 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. As reported by previous consultants, bedrock was encountered between 5 and 22 ft bls during historical onsite 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/ PWR zone, and a deeper underlying bedrock zone.

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 aquifer zone may be under confined or unconfined conditions.

4.2 SITE HYDROGEOLOGY

Groundwater at the site was generally encountered within the bedrock aquifer zone. For monitoring purposes, groundwater within the bedrock aquifer zone has been divided into three hydraulically connected fractured bedrock aquifer zones (shallow, middle, and deep). In general, the shallow bedrock aquifer extends from a variable land surface to an elevation of 572 feet mean sea level (ft msl). The middle bedrock aquifer zone is located between 572 and 512 ft msl, while the deep bedrock aquifer zone is located lower than 512 ft msl.

The depth to groundwater at the site generally ranges from approximately 14 ft bls at monitor well MW-2 on the east side of the Site to approximately 55 ft bls at DW-1D in the north-central portion of the property. During the August 2015 assessment activities, bedrock was encountered in monitor well boreholes at

depths ranging from approximately 33 ft bls in the source area (AOC 1) as defined by MW-11, to approximately 22 ft bls in the northern portion of the property near DW-1. During the September 2014 and July 2015 assessment activities, bedrock was encountered in the boreholes for MW-13, MW-14 and MW-14D on the north side of Franz Warner Parkway at a depth of 28 ft bls.

Based on the groundwater elevation data collected in August 2015 and as shown on Figure 9, the groundwater flow in the bedrock aquifer zone is generally to the north and northwest under apparent fracture control towards Little Alamance Creek which is located approximately 0.2 miles north of the Site.

Perched or isolated water was encountered above bedrock at shallow observation wells (OB-1A and OB-2A) installed as SVE observation wells in the source area as part of the AS/SVE Pilot test. The perched water did not appear laterally continuous but when encountered, samples were collected to help define groundwater VOC concentrations in the source area.

Using top of casing elevations and depth to water measurements, site groundwater elevations and hydraulic gradients for the Site were calculated and are summarized below.

Hydraulic Gradients

Vertical Gradients		
Well Pair	**Gradient**	**Direction**
MW-1 DW-1	-0.0074	Up
DW-1 DW-1D	0.3377	Down
MW-14 MW-14D	-0.0350	Up
MW-15 MW-15D	0.0854	Down
MW-16 DW-16	0.1958	Down
DW-16 DW-16D	0.0043	Down
MW-17 DW-17	0.3931	Down
DW-17 DW-17D	-0.0100	Up

Horizontal Gradient		
Aquifer	**Well Pair**	**Gradient**
Upper to Middle Bedrock Fracture Zones	MW-3 MW-11	0.0668
	MW-11 MW-1	0.0303
	MW-1 MW-9	-0.0571
	MW-9 MW-14	0.0355

The hydraulic conductivity of the upper bedrock aquifer was calculated by the Bower and Rice method using slug test data collected from upper bedrock

monitor wells MW-4, MW-9, MW-10, and MW-11. A summary of hydraulic conductivity in the upper bedrock aquifer zone is provided in the table below.

Summary of Calculated Hydraulic Conductivities

Hydraulic Conductivities	Feet / day	cm/sec
Upper Bedrock (geometric mean)	0.153	5.41×10^{-5}

cm/sec = centimeters per second

Based on the August 2015 water level gauging and calculated hydraulic conductivities, the average groundwater seepage velocity in the upper bedrock aquifer zone using a primary porosity of 10 to 25% is approximately 11 to 27 feet per year. A summary of hydraulic measurements are provided on Table 2 and slug test data and calculations are provided in Appendix D.

5.0 REMEDIAL INVESTIGATION RESULTS

5.1 SOIL ASSESSMENT RESULTS

A current and historical soil analytical results summary is presented in Table 3, and soil sample locations are shown on Figure 7. Laboratory analytical reports are included in Appendix E.

5.1.1 Background Metals in Soil

The analyses of the background soil samples at the Whitsett facility have shown that site-specific natural background metals concentrations are greater than at least one of the IHSB Preliminary Soil Remediation Goals (PSRGs) for the HSL metals arsenic, manganese and selenium (see Table 3). The natural background metals evaluation included the metals analyses of shallow soil samples from background borings (BG-1 through BG-7) installed in 2014, and of four deep soil samples from baseline borings (WP-1 through WP-4) collected in 2011 by GaiaTech. Under the IHSB Guidance, remediation of soils to below site-specific natural background metals concentrations is not required. Therefore and as applicable, the soil remediation goals for arsenic, manganese, selenium and zinc are adjusted to the site-specific natural background concentrations, as summarized in the following table.

HSL Metals with Soil Background Concentrations Greater Than PSRGs

Compound	Arsenic	Manganese	Selenium	Zinc
Site Specific Natural Background Concentration	1.4 - 5.7 (Shallow - Deep)	552	2.6	54.4
Site Specific Health Based PSRG for Unrestricted Residential Use	1.4 – 5.7 (Background)	552 (Background)	78 (Default)	4,600 (Default)
Site Specific Health Based PSRG for Industrial Uses	1.4 – 5.7 (Background)	5,200 (Default)	1,200 (Default)	70,000 (Default)
Site Specific Protection of Groundwater PSRG	5.8 (Default)	552 (Background)	2.6 (Background)	54.4 (Background)

Concentrations in milligrams per kilogram (mg/kg)
PSRG – Preliminary Soil Remediation Goal
Default Value = Published PSRG
Background values are the maximum value of the range of natural background concentrations detected in site soils.

5.1.2 AOC 1 – Former Vapor Degreaser System

Previous soil assessments had generally delineated the extent of VOC-affected soils at AOC 1. Eight soil samples including one duplicate were retained from six soil borings as part of the RI assessment activities and analyzed to refine the delineation of VOC-affected soils, and to assess for selected HSL metals that were not included in earlier efforts.

The concentrations of the select HSL metals (antimony, beryllium, copper, manganese, nickel, thallium and zinc) detected in the sample and duplicate sample collected from soil boring WP-53 at a depth of 3 ft bls were below the respective PSRGs or within the range of background concentrations detected at the site. ERM also evaluated the historical arsenic analyses of soils (WP-12 & 13). Based on the natural background concentrations and considering that arsenic is not known to be used at the site, the historic arsenic detections are determined to be representative of natural background levels. Further metals assessment is not warranted in AOC 1.

Based on current and historical analytical results, the VOCs dichlorodifluoromethane, PCE and TCE were detected in samples collected from AOC 1 at concentrations exceeding at least one of their respective PSRGs. Results by compound are summarized below.

TCE was the most commonly detected compound in AOC 1 with concentrations detected in 22 of the historic and current soil samples above its generic PSRG for the protection of groundwater of 18 micrograms per kilogram (µg/kg). Concentrations of TCE detected in AOC 1 soil samples range from 21.6 µg/kg to 1,090 µg/kg in the vicinity of the former degreaser unit and at an estimated concentration of 280 µg/kg in the vicinity of the degreaser remote fill port. The unrestricted /residential PSRG for TCE of 880 µg/kg was exceeded in soil sample WP-54 and nearby historic sample WP-19 with concentrations of 1,090 µg/kg and 2,610 µg/kg, respectively. The extent of TCE impacted soil in AOC 1 based on historic and current soil assessment is shown on Figure 10. Based on historical and current soil analytical results, the TCE–impacted soils have been delineated as required to the unrestricted/residential PSRG of 880 µg/kg.

PCE was detected in one sample from WP-54 slightly above its generic PSRG for the protection of groundwater of 5 µg/kg, with a concentration of 7.8 µg/kg.

The VOC dichlorodifluoromethane was detected in one historic soil sample in excess of its generic PSRG for the protection of groundwater of 29 µg/kg at a concentration of 37.7 µg/kg. This compound was not detected in any other historic or current soil sample or groundwater samples at the Site. This one detection of dichlorodifluoromethane is not indicative of a release and likely represents a laboratory contaminant.

Synthetic Precipitation Leaching Procedure

To develop site specific protection of groundwater soil remediation goals, the SPLP analysis was conducted on six soil samples collected from AOC 1, the most impacted area of the site. VOCs detected in the soil portion of the SPLP analysis included PCE and TCE. SPLP laboratory results are summarized on Table 4.

TCE (total in soil) was detected in four of the six soil samples with the highest reported concentration of 1,090 µg /kg (~1.1 milligrams per kilogram [mg/kg]). The SPLP analyses of the five soil samples indicated no detectable TCE in the corresponding leachate sample above analytical method detection limits (<1 micrograms per liter (µg/L)). Thus based on the direct SPLP results, a site-specific protection of groundwater soil remedial goal of 1.1 mg/kg TCE was determined for the Whitsett site. There were an insufficient number of detections (total in soil) to allow calculation of site-specific remedial goals by SPLP analysis for the other VOCs.

5.1.3 AOC 2 – Wastewater Treatment Area

To complete soil assessment requirements in AOC 2, one soil sample was collected from soil boring WP-49 and analyzed for select HSL metals. Based on analytical results, manganese, thallium and zinc were detected in the soil sample collected from WP-49. Manganese was not detected above the natural background concentration of 552 mg/kg.

Thallium was detected above its generic protection of groundwater and residential health-based PSRGs with a concentration of 0.59 mg/kg. The thallium detection was qualified by the laboratory as being above the method detection limit, but below the reporting limit; indicating an estimated value due to matrix interference during the analysis. Thallium is not known to be used at the site, is not detected in other soil samples or groundwater and thus is not likely a site-related metal and will therefore not be assessed further.

Zinc was detected above its generic protection of groundwater PSRGs with a concentration of 127 mg/kg. Zinc is not known to be used at the site, is not detected in other soil samples or groundwater and thus is not likely a site-related metal and will therefore not be assessed further.

Based on historical soil sampling results, the HSL metal selenium was detected in shallow soil samples collected from soil boring WP-8 at 7 mg/kg. The reported selenium concentrations exceed the natural background concentration/site specific protection of groundwater PSRG of 2.6 mg/kg, but are below the residential and industrial PSRGs which are 76 mg/kg and 1,000 mg/kg, respectively. No detectable levels of selenium are present in groundwater samples from monitor wells located downgradient of AOC-2.

5.1.4 AOC 3 – Coolant and Metal Shaving Processing Area

Based on historical soil sampling results, the HSL metal selenium was detected in shallow soil samples collected from soil boring WP-9 at 6.1 mg/kg and at WP-10 at 13 mg/kg. The reported selenium concentrations exceed the natural

background concentration/site specific protection of groundwater PSRG of 2.6 mg/kg, but are below the residential and industrial PSRGs which are 76 mg/kg and 1,000 mg/kg, respectively. While detected above the average site specific background concentration, selenium has reportedly not been used at the site and thus detections in site soil while above the background concentration is likely attributable to natural conditions. Additionally, detectable levels of selenium are not present in groundwater samples collected from monitor wells located downgradient of AOC-3.

5.2 GROUNDWATER ASSESSMENT RESULTS

5.2.1 Groundwater Quality

To further evaluate and delineate Site groundwater quality impacts, 13 additional permanent monitor wells were installed and sampled as part of the RI activities. An additional six permanent wells that penetrated the water table and can be used for supplemental groundwater monitoring were installed in the source area as part of the AS/SVE pilot test. Data collected during and after the pilot test are included where appropriate to evaluate source area impacts (i.e. baseline pilot test sampling).

The analytical results for the most recent groundwater sampling events conducted in May/June and October 2014, and January, August, and September 2015 were compared to the applicable North Carolina groundwater standards under 15A NCAC 2L.0106 (NCAC 2L). Groundwater analytical results for VOCs and HSL metals are summarized in Tables 5 and 6, respectively. Natural attenuation parameters were also analyzed during the May and June 2014 groundwater sampling events, with results provided in Table 7. The laboratory analytical reports for the RI groundwater samples are provided in Appendix E. A discussion of groundwater sampling results by major contaminant category is provided below.

Volatile Organic Compounds

The VOCs detected during the RI groundwater sampling activities are summarized below with their corresponding NCAC 2L groundwater standard.

Maximum Detected Volatile Organic Compound Concentrations in Groundwater

Compound	Maximum Concentration	NCAC 2L Groundwater Standard
1,1-Dichloroethene	11	350
1,2-Dichloroethane	0.66	0.4
1,4-Dioxane	0.49	3
Acetone	740	6000

Compound	Maximum Concentration	NCAC 2L Groundwater Standard
Bromodichloromethane	0.83	0.6
Chloroethane	1.3	3000
Chloroform	27	70
Chloromethane (Methyl chloride)	0.32	5
cis-1,2-Dichloroethene	3	70
Ethylbenzene	0.5	600
Methyl tertiary butyl ether (MTBE)	0.28	20
Tetrachloroethene	6.5	0.7
Toluene	0.56	600
Trichloroethene	14,000	3
Xylenes (total)	2.5	500

Concentrations in micrograms per liter (µg/L)
Bold and shaded values exceed the regulatory standard (15A NCAC 2L.0106 -April 2013)
J = Estimated value

As shown above, four VOCs, including 1,2-dichloroethane (DCA), bromodichloromethane, PCE and TCE are detected in site groundwater above their respective NCAC 2L groundwater standards. The primary VOC detected in Site groundwater is TCE which was detected in groundwater samples from 18 of the 29 monitor wells (including AS/SVE pilot test wells) at concentrations above the 2L standard. Figure 11 show the distribution of TCE in the bedrock aquifer, based on the most recent results available from each well. A cross section location map and generalized geologic cross sections and plume distribution profiles for TCE are included as Figures 12, 13, 14, 15 and 16.

Metals

Of the 16 HSL metals evaluated for the Site prior to current efforts, manganese was present above its NCAC 2L groundwater standard in 80% of the groundwater samples collected from permanent wells at the Site. Groundwater samples were collected during the RI activities from 11 site monitor wells, including the newly installed MW-11, MW-12 and DW-1 and analyzed for total manganese. To evaluate if the detected manganese concentrations were derived from suspended solids or dissolved manganese in the aquifer, groundwater samples were collected from monitor wells MW-2, MW-3 and MW-5 and analyzed for total and dissolved manganese to compare the results.

Current and historical analytical results for HSL metals in groundwater are summarized in Table 6.

The comparative groundwater analytical results indicate dissolved manganese is present in site groundwater at concentrations above the NCAC 2L standard. Based on previous and current sampling results, all of the groundwater samples

collected from the 13 monitor wells on Site contain manganese with approximately 85% of the reported concentrations exceeding the NCAC 2L groundwater standard of 50 µg/L. Based on its widespread occurrence in groundwater across the site and in background soils, manganese is considered to be naturally occurring. The groundwater quality data suggest an apparent correlation between the most elevated concentrations of manganese and TCE at the Site. As discussed in the following section, the elevated manganese may be an indicator of natural attenuation processes.

5.2.2 *Natural Attenuation Parameter Screening*

A summary of natural attenuation parameters are included in Table 7. Based on the analytical results, site groundwater conditions generally appear favorable to natural attenuation by reductive dechlorination with respect to total iron, nitrate, and nitrite. Additionally, aquifer conditions are optimal across the Site for pH and largely positive in the downgradient wells for oxidation reduction potential. Dissolved oxygen concentrations are optimal (<1 mg/L) in wells immediately north and downgradient of AOC 1 and in MW-5. The capacity for natural attenuation at the site appears to be limited by relatively low levels of total organic carbon. The elevated manganese concentrations observed within the TCE plume may be an indicator of anaerobic biological activity solubilizing manganese from the aquifer matrix.

It is noted that iron was detected in each of the seven groundwater samples analyzed at concentrations that ranged from 92.6 µg/L to 12,700 µg/L. The NCAC 2L standard for iron in groundwater is 300 µg/L. Iron is a common, naturally occurring metal in groundwater in the Piedmont of North Carolina and is not considered a hazardous metal contaminant

5.3 *TENTATIVELY IDENTIFIED COMPOUNDS*

Tentatively identified compounds (TICs) are listed in Table 8. Based on a review of the data, the TICs were not retained for future analysis by reason of 1) detection in only one sample, 2) known/suspected lab contaminant, 3) naturally occurring 4) known/suspected anthropogenic source constituent, or 5) unknown/unidentified compound.

5.4 *QUALITY ASSURANCE/QUALITY CONTROL EVALUATION*

In accordance with the Work Plan and the REC Implementation Guidance dated December 2013, ERM implemented Quality Assurance (QA) and Quality Control (QC) procedures to ensure that technical data generated during sampling activities were accurate, complete and representative of actual field conditions.

ERM collected one equipment rinse blank from the hand auger for soil sampling (RB-1) and one rinse blank from the submersible pump for groundwater sampling (RB-1). One soil duplicate sample (DUP-1) and one groundwater duplicate samples (DUP-1) were collected during field activities for submittal as laboratory-blind samples. Four soil and eight groundwater laboratory-prepared trip blanks were included as a check on the occurrence of cross- contamination that may occur as a result of field handling or laboratory handling. The QA/QC samples indicated that the data are reliable and reproducible. All samples were analyzed within their respective holding times. A summary of the QA/QC analytical results are provided in Tables 9 and 10.

5.5 DEVIATIONS FROM THE WORK PLANS

Soil:

Two depth discrete soil samples could not be collected at each background soil sample location due to encountering hand auger refusal from shallow PWR. As a result one sample was collected from seven sample locations instead of two samples from five sample locations.

Due to the presence of shallow PWR in the vicinity of AOC 1, only shallow (four ft bls or less) soil samples were collected from this area with the exception of GP-50 which was advanced to 12.5 ft bls before reaching refusal.

A soil sample for metals analysis was not collected in AOC 2 due to hand auger refusal directly below the concrete slab. As a result, a sample collected from AOC 3 was used to complete the metals evaluation for both areas due to the proximity of the AOCs.

Groundwater:

There were no deviations from the Work Plans during groundwater assessment activities.

6.0 SUMMARY OF FINDINGS

Based on the historical assessment information provided by others and the results of the RI assessment activities conducted by ERM, the major findings of the remedial investigation at the Site include the following:

Soils

- A residual VOC source mass in shallow soils has been characterized and delineated at the Former Vapor Degreaser Area (AOC 1). The affected soils are attributed to historical releases related to the former use of TCE at AOC 1. As required, the extent of the VOC-affected soils has been delineated to the unrestricted/residential PSRG of 880 µg/kg TCE. No soil samples from AOC 1 contain VOC concentrations above the industrial PSRGs.
- Based on the soil assessment results, there are no apparent releases of site-related hazardous substances at the two other AOCs at the Site: the Wastewater Treatment Area (AOC 2), and the Coolant and Metal Shaving Processing Area (AOC 3).
- As allowed and in accordance with IHSB guidance, a site specific protection of groundwater remediation goal for TCE affected soil of 1.1 mg/kg has been calculated for the affected soils in AOC 1.
- Based on historical soil sampling, SVOCs are not compounds of concern at the site.
- The detected metals concentrations in site soils are determined to be within PSRGs or representative of naturally occurring background concentrations (i.e. manganese, arsenic), are isolated to a single occurrence (thallium) and/or are not known to be site related (selenium, arsenic). No detectable levels of thallium, selenium or arsenic are present in groundwater samples from monitor wells at the site. The metals detected in soils are not considered to be site-related constituents of concern, and no further assessment of metals is warranted.

Groundwater

- TCE is the primary COC in Site groundwater with the highest concentrations detected in a groundwater samples collected from SVE observation well OB-1A , installed in the upper-bedrock aquifer zone in the immediate vicinity of the Former Vapor Degreaser Area (AOC 1). The VOC-affected groundwater, as defined by TCE concentrations, extends from AOC 1, to near the north property boundary in the upper bedrock aquifer zone and extends vertically downward and north in the middle-bedrock aquifer zone. The on-site area of TCE-affected groundwater is well defined and the extent of the affected

groundwater to the north has been delineated by MW-13, and the well pair MW-14, and MW-14D. The vertical extent of the TCE-affected groundwater in the bedrock aquifer is currently not fully delineated to the 2L groundwater standard in the source area. However, the TCE concentrations in the deep bedrock aquifer (44/ug/l at DW-1D (TD=125 ft bls)) show a significant decrease compared to the middle bedrock aquifer (81 ug/l at DW-1 (TD=75 ft bls)). Based on the observed vertical decrease in concentration, the significant monitoring depths and the lack of groundwater use in the area, the vertical distribution of TCE-affected groundwater is considered to be adequately characterized, and deeper monitoring is not necessary.

- Metals are not considered to be hazardous constituents of concern in groundwater at the site. However, the metal manganese is detected in each groundwater sample collected at the site. While detected in excess of the NCAC 2L groundwater standard, the elevated levels of manganese are not considered indicative of a release and thus the compound will not be considered a site COC. Dissolved manganese is an indicator of anaerobic biological activity solubilizing manganese from the aquifer matrix. Therefore, additional monitoring of manganese is planned as an indicator of natural attenuation processes.
- Although naturally occurring and not considered a hazardous substance, iron was detected in groundwater samples at concentrations above its NCAC 2L standard in groundwater of 300 µg/L. No remedial action for iron is warranted.

Sensitive Receptor Survey

- The area in the vicinity of the site is served by the City of Greensboro municipal public water supply system.
- There are no water supply wells located within ½ mile of the site.
- The nearest perennial surface water is Little Alamance Creek which is located approximately 0.2 miles north of the Site. Based on the distance from the site and the relatively low TCE concentrations in groundwater, the potential for surface water impacts is negligible.

TABLES

TABLE 1. MONITOR WELL CONSTRUCTION AND GROUNDWATER ELEVATION SUMMARY - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLIN/

Well ID	Installation Date	Northing	Easting	Date Abandoned	Drilling Method	Well Type	Diameter/ Material/ Casing	Monitored Bedrock Aquifer Zone	Surface Casing Depth (ft bls)	Total Depth (ft bls)	Screen Interval (ft bls)	Land Surface Elevation (ft msl)	Measuring Point Elevation TOC (ft msl)	Elevation Top of Screen (ft msl)	Elevation Bottom of Screen (ft msl)	Depth to Water (bmp)	Ground water Elevation
																August 2015	
Monitor Wells																	
MW-1	10/24/12	839039.6600	1823013.6100	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	25	74	27 - 73.5	632.28	631.72	605.28	558.78	36.14	595.58
DW-1	06/05/14	839034.9680	1823011.0730	NA	HSA/AR	III	6" outer casing / 2" inner casing	Middle	75	113	103 - 113	632.55	632.24	529.554	519.554	35.99	596.25
DW-1D	09/29/14	839037.9400	1823007.4600	NA	HSA/AR	III	6" outer casing / 2" inner casing	Deep	125	175	155 - 175	631.95	631.73	476.95	456.95	54.84	576.89
MW-2	10/24/12	838806.0700	1823291.8600	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	25	39	29 - 38.5	628.30	627.91	599.3	589.8	14.69	613.22
MW-3	10/24/12	838554.1500	1823114.3100	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	25	50	40 - 49.5	633.28	632.97	593.28	583.78	NM	--
MW-4	10/24/12	838798.6900	1822882.6500	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	30	60	40 - 59.5	635.38	635.03	595.38	575.88	25.44	609.59
MW-5	08/16/13	838654.9200	1822798.9900	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	20	40	20 - 39.5	624.78	624.59	604.78	585.28	21.09	603.50
MW-6	08/16/13	838810.5200	1822749.5000	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	22	55	30 - 54.5	621.90	621.49	591.9	567.4	21.52	599.97
MW-7	08/16/13	838928.6100	1822668.6900	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	24	60	30 - 59.5	616.60	616.33	586.6	557.1	25.00	591.33
MW-8	08/16/13	839033.8400	1822748.8700	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	15	40	20 - 39.5	623.01	622.71	603.01	583.51	22.53	600.18
MW-9	08/16/13	839109.9700	1823001.0000	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	30	60	40 - 59.5	629.75	629.39	589.75	570.25	33.29	596.10
MW-10	08/16/13	839093.5700	1823168.9500	NA	HSA/AR	III	4" outer casing / 2" inner casing	Upper	33	45	33 - 44.5	628.42	628.19	595.42	583.92	22.99	605.20
MW-11	05/29/14	838888.8190	1822991.6100	NA	HSA/Core	III	4" outer casing / 2" inner casing	Upper	30	68.5	45 - 60	635.92	635.69	590.916	575.916	35.45	600.24
MW-12	06/04/14	839068.7490	1823329.7560	NA	HSA/AR	III	6" outer casing / 2" inner casing	Upper	30	46	36 - 46	621.63	621.35	585.627	575.627	15.72	605.63
MW-13	09/26/14	839315.5750	1822846.8330	NA	HSA/AR	III	6" outer casing / 2" inner casing	Middle	31	90	80 - 90	624.30	623.94	544.3	534.3	15.45	608.49
MW-14	07/10/15	839109.6880	1822503.3870	NA	HSA/AR	III	6" outer casing / 2" inner casing	Middle	34	72	60 - 70	588.07	587.85	528.071	518.071	9.51	578.34
MW-14D	07/09/15	839119.8640	1822494.0070	NA	HSA/AR	III	6" outer casing / 2" inner casing	Deep	91	140	125 - 135	587.44	587.21	462.439	452.439	6.58	580.63
MW-15	07/16/15	839026.1840	1822918.0120	NA	HSA/AR	II	1-in PVC	Upper	--	42	30 - 40	631.06	630.82	601.062	591.062	24.18	606.64
MW-15D	07/16/15	839026.1840	1822918.0120	NA	HSA/AR	II	1-in PVC	Middle	--	123	105 - 120	631.06	630.85	526.062	511.062	30.80	600.05
MW-16	07/14/15	838910.2280	1822964.7570	NA	HSA/Core	II	1-in PVC	Upper	--	42	36 - 41	635.94	635.72	599.939	594.939	30.13	605.59
DW-16	07/14/15	838910.2280	1822964.7570	NA	HSA/Core	II	1-in PVC	Middle	--	80	74 - 79	635.94	635.71	561.939	556.939	37.57	598.14
DW-16D	07/14/15	838910.2280	1822964.7570	NA	HSA/Core	II	1-in PVC	Middle	--	118.5	109 - 118.5	635.94	635.72	527.439	517.439	37.73	597.99
MW-17	07/08/15	838924.9700	1823017.6780	NA	HSA/Core	II	1-in PVC	Upper	--	51	45 - 50	635.93	635.69	590.933	585.933	26.70	608.99
DW-17	07/08/15	838924.9700	1823017.6780	NA	HSA/Core	II	1-in PVC	Middle	--	80	74 - 79	635.93	635.70	561.933	556.933	38.10	597.60
DW-17D	07/08/15	838924.9700	1823017.6780	NA	HSA/Core	II	1-in PVC	MIddle	--	113	106 - 111	635.93	635.70	529.933	524.933	37.78	597.92
Pilot Test Wells																	
AS-1	11/18/14				HSA/Core	II	2-in PVC	Middle	--	64	54 - 64	636.00				37.49	--
SVE-1	11/12/14				HSA/Core	II	4-in PVC	Upper	--	29	9 - 29	636.00				NM	--
OB-1	11/20/14				HSA/Core	II	a: 1-in PVC	Upper	--	30	10 - 30	636.00				26.59	--
(a & b)							b: 1-in PVC	Middle	--	73	58 - 73	636.00				37.78	--
OB-2	11/20/14				HSA/Core	II	a: 1-in PVC	Upper	--	30	10 - 30	636.00				26.18	--
(a & b)							b: 1-in PVC	Middle	--	78	63 - 78	636.00				37.77	--

Notes:

1. All measurements in feet
2. Groundwater depth measured from top of casing
3. Elevations are measured based on vertical datum NAVD88 (Geoid 2012)
4. All wells constructed of 2-inch PVC
5. Ft bls = Feet below measuring point (top of PVC casing)
6. HSA = Hollow stem auger drilling method
7. AR = Air Hammer

Bedrock Aquifer Zones:

Upper
Middle
Deep

TABLE 2. HYDRAULIC GRADIENT SUMMARY - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Vertical Hydraulic Gradients

Well Designation	06-Aug-15							
	Land Surface Elevation (ft ASL)	Depth to Water (ft)	Head Measurement Location Elevation* (relative ft ASL)	Head Elevation (ft)	Head Change (ft)	Mid-Point Length Change (ft)	Hydraulic Gradient (ft/ft)	Up/ Down
MW-1	632.28	36.14	582.03	596.14	-0.42	57.48	-0.0074	Up
DW-1	632.55	35.99	524.55	596.56				
DW-1	632.55	35.99	524.55	596.56	19.45	57.60	0.3377	Down
DW-1D	631.95	54.84	466.95	577.11				
MW-14	588.07	9.51	523.07	578.56	-2.30	65.63	-0.0350	Up
MW-14D	587.44	6.58	457.44	580.86				
MW-15	631.06	24.18	596.06	606.88	6.62	77.50	0.0854	Down
MW-15D	631.06	30.80	518.56	600.26				
MW-16	635.94	30.13	597.44	605.81	7.44	38.00	0.1958	Down
DW-16	635.94	37.57	559.44	598.37				
DW-16	635.94	37.57	559.44	598.37	0.16	37.00	0.0043	Down
DW-16D	635.94	37.73	522.44	598.21				
MW-17	635.93	26.70	588.43	609.23	11.40	29.00	0.3931	Down
DW-17	635.93	38.10	559.43	597.83				
DW-17	635.93	38.10	559.43	597.83	-0.32	32.00	-0.0100	Up
DW-17D	635.93	37.78	527.43	598.15				

Notes:

(-) vertical gradient represents upward groundwater flow

(+) vertical gradient represents downward groundwater flow

* The head measurement location is the mid-point between the top and bottom of the well screen in cases of a submerged screen and the mid-point between the water table elevation and the bottom of the well screen in cases where the water table intersects the well screen.

Horizontal Hydraulic Gradient - Upper-Bedrock Aquifer

Well Designation	06-Aug-15					
	Reference Elevation (ft ASL)	Depth to Water (ft)	Head Elevation (ft)	Head Change (ft)	Distance Change (ft)	Hydraulic Gradient (ft/ft)
MW-4	635.03	25.44	609.59	9.35	140.00	0.0668
MW-11	635.69	35.45	600.24			
MW-11	635.69	35.45	600.24	4.66	153.67	0.0303
MW-1	631.72	36.14	595.58			
MW-11	635.69	35.45	600.24	4.14	72.52	0.0571
MW-9	629.39	33.29	596.10			
MW-9	629.39	33.29	596.10	17.76	500.00	0.0355
MW-14	587.85	9.51	578.34			
					Average Hydraulic Gradient	**0.0474**

Seepage Velocity Calculation

Slug Test and Aquifer Test Analysis Summary			
Monitoring Well	Aquifer	Hydraulic Conductivity	
		(cm/sec)	(ft/day)
MW-4	Upper Bedrock	1.353E-05	0.038
MW-4	Upper Bedrock	2.088E-05	0.059
MW-9	Upper Bedrock	7.562E-06	0.021
MW-9	Upper Bedrock	4.876E-06	0.014
MW-10	Upper Bedrock	2.256E-04	0.639
MW-10	Upper Bedrock	1.381E-04	0.391
MW-10	Upper Bedrock	1.687E-04	0.478
MW-11	Upper Bedrock	1.210E-04	0.343
MW-11	Upper Bedrock	1.251E-04	0.355
MW-11	Upper Bedrock	1.155E-04	0.327
MW-11	Upper Bedrock	1.208E-04	0.342
	Geometric Mean for Upper Bedrock:	**5.408E-05**	**0.153**

Saprolite aquifer seepage velocity = Ki/n $_e$

where:

K is hydraulic conductivity (geometric mean for the primary flowpath)

i = horizontal hydraulic gradient (average of values presented above)

n_e = effective porosity (range estimated 0.10 to 0.25 for the primary flow

Seepage Velocity Range (Upper Bedrock Aquifer) =

= (0.15) (0.0474) / (0.25) =		2.91E-02	ft/day
= (0.15) (0.0474) / (0.10) =		7.27E-02	ft/day
Range of	25%	10.62	ft/yr
porosity	10%	26.54	ft/yr

Seepage Velocity Range of 11 to 27 ft/yr

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	VOCs - Method 5035A/8260B (µg/kg)				SVOCs - Method 8270 (µg/kg)										TPH - Method 8015D and 3546/DRO (mg/kg)		Pesticides - Method 8081A (mg/kg)
			Acetone	Dichlorodifluoromethane	Tetrachloroethene	Trichloroethene	All Parameters	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	bis(2-ethylhexyl)phthalate	Chrysene	Fluoranthene	Phenanthrene	Pyrene	Gasoline Range - GRO	Diesel Range - DRO	All Parameters
Delineation Criteria - Residential			12000000	17000	16000	820	Varies	160	16	160	1600	39000	16000	480000	NE	360000	NE	NE	Varies
PSRGs - Industrial			100000000	74000	78000	3800	Varies	2900	290	2900	29000	160000	290000	6000000	NE	4600000	NE	NE	Varies
PSRGs - Protection of Groundwater			24000	29000	5	18	Varies	180	59	600	5900	7200	18000	330000	68000	220000	NE	NE	Varies
Background Samples - ERM																			
BG-1	5.5'	05/21/14	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
BG-2	3'	05/21/14	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
BG-3	3'	05/21/14	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
BG-4	4'	05/21/14	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
BG-5	2'	05/21/14	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
BG-6	3'	05/21/14	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
BG-7	3'	05/21/14	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
Baseline (Background) Samples - GaiaTech																			
WP-1	21.5-23.5'	07/26/11	<3000	<300	<59	<59	BDL	<48	<48	<48	<48	<490	<48	<48	<48	<48	NA	NA	NA
WP-2	10-12'	07/26/11	<2400	<240	<48	<48	BDL	<40	<40	<40	<40	<400	<40	<40	<40	<40	NA	NA	NA
WP-3	13-15'	07/26/11	<2300	<230	<46	<46	BDL	<36	<36	<36	<36	<360	<36	<36	<36	<36	NA	NA	NA
WP-4	10-12'	07/26/11	<2700	<270	<54	<54	BDL	<43	<43	<43	<43	<440	<43	<43	<43	<43	NA	NA	NA
ERM Samples																			
WP-49	3'	05/21/14	NA	NA	NA	NA	NA										NA	NA	NA
WP-50	4'	05/21/14	<62	<6.2	<6.2	<6.2	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
WP-50	12.5'	05/21/14	<63	<6.3	<6.3	**288** J	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
WP-51	4'	05/22/14	<68	<6.8	<6.8	**26**	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
WP-53	1'	05/22/14	<74	<7.4	<7.4	5.6 J	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
WP-53	3'	05/22/14	<67	<6.7	<6.7	**21.6**	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
DUP-1	3'	05/22/14	<65	<6.5	<6.5	**42.5**	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
WP-54	1'	05/22/14	<50	<5	**7.8**	**1,090**	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
WP-55	0.5'	06/06/14	<56	<5.6	<5.6	<5.6	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
WP-56	3'	07/09/15	<52	<5.2	<5.2	<5.2	NA	-	-	-	-	-	-	-	-	-	NA	NA	NA
GaiaTech Samples																			
WP-5	6-8'	07/26/11	<2200	<220	<44	<44	-	69	**86**	120	44	<390	90	140	77	150	NA	NA	NA
WP-5	10.5-12.5'	07/26/11	<2300	<230	<46	<46	BDL	<43	<43	<43	<43	<430	<43	<43	<43	<43	NA	NA	NA
WP-6	3-5'	07/26/11	<2400	<240	<48	<48	BDL	<46	<46	<46	<46	<460	<46	<46	<46	<46	NA	NA	NA
WP-6	18-20'	07/26/11	<2800	<280	<55	<55	BDL	<42	<42	<42	<42	<420	<42	<42	<42	<42	NA	NA	NA
WP-7	6-8'	07/26/11	<2700	<270	<54	<54	BDL	<42	<42	<42	<42	<430	<42	<42	<42	<42	BDL	BDL	NA
WP-8	1.5-3'	07/26/11	<2500	<250	<49	<49	BDL	<36	<36	<36	<36	<360	<36	<36	<36	<36	<4.6	**100**	NA
WP-9	1-3'	07/26/11	<2700	<270	<55	<55	BDL	<43	<43	<43	<43	<430	<43	<43	<43	<43	<4.3	**280**	NA
WP-10	1-2'	07/26/11	<2400	<240	<49	<49	BDL	<420	<420	<420	<420	<4300	<420	<420	<420	<420	<4	**2,300**	NA
WP-11	3-5'	07/27/11	<56	<5.6	<1.1	<1.1	BDL	<37	<37	<37	<37	<370	<37	<37	<37	<37	BDL	BDL	NA
WP-12	5-7'	07/27/11	<66	<6.6	<1.3	2.8	BDL	<43	<43	<43	<43	<440	<43	<43	<43	<43	BDL	BDL	NA

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	VOCs - Method 5035A/8260B (µg/kg)				SVOCs - Method 8270 (µg/kg)										TPH - Method 8015D and 3546/DRO (mg/kg)		Pesticides - Method 8081A (mg/kg)
			Acetone	Dichlorodifluoromethane	Tetrachloroethene	Trichloroethene	All Parameters	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	bis(2-ethylhexyl)phthalate	Chrysene	Fluoranthene	Phenanthrene	Pyrene	Gasoline Range - GRO	Diesel Range - DRO	All Parameters
Delineation Criteria - Residential			12000000	17000	16000	820	Varies	160	16	160	1600	39000	16000	480000	NE	360000	NE	NE	Varies
PSRGs - Industrial			100000000	74000	78000	3800	Varies	2900	290	2900	29000	160000	290000	6000000	NE	4600000	NE	NE	Varies
PSRGs - Protection of Groundwater			24000	29000	5	18	Varies	180	59	600	5900	7200	18000	330000	68000	220000	NE	NE	Varies
WP-13	5-6'	07/27/11	<63	<6.3	<1.3	<1.3	BDL	<42	<42	<42	<42	<420	<42	<42	<42	<42	BDL	BDL	NA
WP-14	8-10'	07/27/11	<57	<5.7	<1.1	**30**	BDL	<38	<38	<38	<38	<380	<38	<38	<38	<38	BDL	BDL	NA
WP-15	3-5'	07/27/11	<53	<5.3	<1	<1	BDL	<35	<35	<35	<35	<350	<35	<35	<35	<35	BDL	BDL	NA
WP-16	3-5'	07/27/11	<54	<5.4	<1.1	<1.1	BDL	<36	<36	<36	<36	<360	<36	<36	<36	<36	BDL	BDL	NA
SS-1	Surface	07/27/11	<70	<7	<1.4	<1.4	BDL	<46	<46	<46	<46	<470	<46	<46	<46	<46	BDL	BDL	BDL
SS-2	Surface	07/27/11	<660	<6.6	<1.3	<1.3	BDL	<43	<43	<43	<43	<440	<43	<43	<43	<43	BDL	BDL	BDL
WP-17	6"	10/23/12	<83.7	<8.4	<4.2	**84.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-17	5'	10/23/12	<106	<5.3	<5.3	**117**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-17	10'	10/23/12	<107	<5.4	<5.4	**687**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-18	6"	10/23/12	<81	<4.0	<4.0	**603**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-18	5'	10/23/12	<73.8	<3.7	<3.7	<3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-19	6"	10/23/12	<94.4	<4.7	<4.7	**851**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-19	4'	10/23/12	<109	<2.0	<2.0	**2610**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-20	6"	10/23/12	<96.9	<4.8	<4.8	**353**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-20	5'	10/23/12	<84.3	<4.2	<4.2	**51**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-20	10'	10/23/12	<72.1	<3.6	<3.6	**126**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-21	6"	10/23/12	106	<4.2	<4.2	**103**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-21	4'	10/23/12	<94	<4.7	<4.7	<4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-22	6"	10/23/12	<86.6	<4.3	<4.3	<4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-22	4'	10/23/12	<89.2	<4.5	<4.5	8.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-23	6"	10/23/12	<72.5	<3.6	<3.6	**103**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-23	3'	10/23/12	<75.3	<3.8	<3.8	<3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-24	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.6	NA
WP-24	3'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.5	NA
WP-25	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.9	NA
WP-25	2'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.0	NA
WP-26	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.6	NA
WP-26	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.5	NA
WP-27	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.1	NA
WP-27	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.3	NA
WP-27	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.4	NA
WP-28	6"	10/23/12	NA	NA	NA	NA	BDL	<368	<368	<368	<368	-	<368	<368	<368	<368	NA	NA	NA
WP-28	5'	10/23/12	NA	NA	NA	NA	BDL	<390	<390	<390	<390	-	<390	<390	<390	<390	NA	NA	NA
WP-28	10'	10/23/12	NA	NA	NA	NA	BDL	<399	<399	<399	<399	-	<399	<399	<399	<399	NA	NA	NA
WP-28	15'	10/23/12	NA	NA	NA	NA	BDL	<378	<378	<378	<378	-	<378	<378	<378	<378	NA	NA	NA

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	VOCs - Method 5035A/8260B (µg/kg)				SVOCs - Method 8270 (µg/kg)										TPH - Method 8015D and 3546/DRO (mg/kg)		Pesticides - Method 8081A (mg/kg)
			Acetone	Dichlorodifluoromethane	Tetrachloroethene	Trichloroethene	All Parameters	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	bis(2-ethylhexyl)phthalate	Chrysene	Fluoranthene	Phenanthrene	Pyrene	Gasoline Range - GRO	Diesel Range - DRO	All Parameters
Delineation Criteria - Residential			12000000	17000	16000	820	Varies	160	16	160	1600	39000	16000	480000	NE	360000	NE	NE	Varies
PSRGs - Industrial			100000000	74000	78000	3800	Varies	2900	290	2900	29000	160000	290000	6000000	NE	4600000	NE	NE	Varies
PSRGs - Protection of Groundwater			24000	29000	5	18	Varies	180	59	600	5900	7200	18000	330000	68000	220000	NE	NE	Varies
WP-29	6"	10/23/12	NA	NA	NA	NA	BDL	<379	<379	<379	<379	-	<379	<379	<379	<379	NA	NA	NA
WP-29	5'	10/23/12	NA	NA	NA	NA	BDL	<377	<377	<377	<377	-	<377	<377	<377	<377	NA	NA	NA
WP-29	10'	10/23/12	NA	NA	NA	NA	BDL	<382	<382	<382	<382	-	<382	<382	<382	<382	NA	NA	NA
WP-29	15'	10/23/12	NA	NA	NA	NA	BDL	<369	<369	<369	<369	-	<369	<369	<369	<369	NA	NA	NA
WP-29	19'	10/23/12	NA	NA	NA	NA	BDL	<368	<368	<368	<368	-	<368	<368	<368	<368	NA	NA	NA
WP-30	6"	10/23/12	NA	NA	NA	NA	BDL	<369	<369	<369	<369	-	<369	<369	<369	<369	NA	NA	NA
WP-30	5'	10/23/12	NA	NA	NA	NA	BDL	<376	<376	<376	<376	-	<376	<376	<376	<376	NA	NA	NA
WP-30	10'	10/23/12	NA	NA	NA	NA	BDL	<387	<387	<387	<387	-	<387	<387	<387	<387	NA	NA	NA
WP-30	13'	10/23/12	NA	NA	NA	NA	BDL	<439	<439	<439	<439	-	<439	<439	<439	<439	NA	NA	NA
WP-31	6"	10/23/12	NA	NA	NA	NA	BDL	<368	<368	<368	<368	-	<368	<368	<368	<368	NA	NA	NA
WP-31	5'	10/23/12	NA	NA	NA	NA	BDL	<369	<369	<369	<369	-	<369	<369	<369	<369	NA	NA	NA
WP-31	10'	10/23/12	NA	NA	NA	NA	BDL	<399	<399	<399	<399	-	<399	<399	<399	<399	NA	NA	NA
WP-31	13'	10/23/12	NA	NA	NA	NA	BDL	<360	<360	<360	<360	-	<360	<360	<360	<360	NA	NA	NA
WP-32	6"	10/23/12	NA	NA	NA	NA	BDL	<366	<366	<366	<366	420	<366	<366	<366	<366	NA	NA	NA
WP-32	5'	10/23/12	NA	NA	NA	NA	BDL	<370	<370	<370	<370	-	<370	<370	<370	<370	NA	NA	NA
WP-32	9'	10/23/12	NA	NA	NA	NA	BDL	<360	<360	<360	<360	-	<360	<360	<360	<360	NA	NA	NA
WP-33	6"	02/13/13	<105	<10.5	NR	**410**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-33	5'	02/13/13	<100	<10	NR	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-34	6"	02/13/13	<80.9	<8.1	NR	**24.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-34	3'	02/13/13	<71.6	<7.2	<3.6	<3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-35	6"	02/13/13	<78	<7.8	<3.9	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-35	2'	02/13/13	<75.2	<7.5	<3.8	<3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-36	6"	02/13/13	<88.5	<8.8	<4.4	<4.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-36	5'	02/13/13	232	<16.4	<8.2	<8.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-36	10'	02/13/13	<88.3	<8.8	<4.4	<4.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-37	6"	02/13/13	204	<8.6	<4.3	10.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-37	5'	02/13/13	<85	<8.5	<4.3	<4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-37	6'	02/13/13	96.9	<6.6	<3.3	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-38	6"	02/13/13	118	<9.9	<4.95	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-38	5'	02/13/13	<76.3	<7.6	<3.8	<3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-39	6"	02/13/13	<88.7	<8.9	<4.45	**26.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-40	6"	02/13/13	115	<10.9	<5.4	<5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-40	5'	02/13/13	<107	<10.7	<5.4	<5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-40	7'	02/13/13	<96.7	<9.7	<4.8	<4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-41	6"	02/13/13	<117	<11.7	NR	9.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	VOCs - Method 5035A/8260B (µg/kg)				SVOCs - Method 8270 (µg/kg)										TPH - Method 8015D and 3546/DRO (mg/kg)		Pesticides - Method 8081A (mg/kg)
			Acetone	Dichlorodifluoromethane	Tetrachloroethene	Trichloroethene	All Parameters	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	bis(2-ethylhexyl)phthalate	Chrysene	Fluoranthene	Phenanthrene	Pyrene	Gasoline Range - GRO	Diesel Range - DRO	All Parameters
Delineation Criteria - Residential			12000000	17000	16000	820	Varies	160	16	160	1600	39000	16000	480000	NE	360000	NE	NE	Varies
PSRGs - Industrial			100000000	74000	78000	3800	Varies	2900	290	2900	29000	160000	290000	6000000	NE	4600000	NE	NE	Varies
PSRGs - Protection of Groundwater			24000	29000	5	18	Varies	180	59	600	5900	7200	18000	330000	68000	220000	NE	NE	Varies
WP-41	5'	02/13/13	<94.1	<9.4	NR	<4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-41	8'	02/13/13	<86.1	<8.6	<4.3	<4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-42	6"	02/13/13	117	<7.8	<3.9	**25.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-42	5'	02/13/13	<81.2	<8.1	<4.1	<4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-42	6'	02/13/13	<79.3	<7.9	<4	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-43	6"	02/13/13	<81.2	37.7	<4.1	<4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-43	5'	02/13/13	<78.9	<7.9	<3.9	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-43	8'	02/13/13	<102	<10.2	<5.1	**32.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-47	6"	02/13/13	197	<9.9	<4.9	<4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-47	5'	02/13/13	<77.7	<7.8	<3.9	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-47	9'	02/13/13	<77.6	<7.8	<3.9	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

VOCs: Volatile organic compounds; SVOCs: Semi-Volatile organic compounds; TPH: Total Petroleum Hydrocarbons

IHSB Preliminary health-based soil remediation goals (PSRGs) , updated September 2015

(µg/kg) = micrograms per kilogram (mg/kg) = miligrams per kilogram

Only detected compounds are listed.

< = Below Laboratory Detection Limit; NA: Not Analyzed; NE: Not Established

B = analyte found in associated method blank; J = estimated value greater than the method detection limit but less than the reporting limit

Bolded Highlighted values exceed the lowest of the listed PSRGs

Highlighted "<" values were not detected, but the detection limits were greater than the applicable PSRG

WP-44 through WP-46 collected by not analyzed

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	Metals - Method 6010B/7471 (mg/kg)															
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Delineation Criteria - Residential			6.2	0.68	3000	32	14	24000	0.3	620	400	360	1.9	300	78	78	0.16	4600
PSRGs - Industrial			94	3	44000	460	200	100000	6.3	9400	800	5200	3.1	4400	1200	1200	2.4	70000
PSRGs - Protection of Groundwater			0.9	5.8	580	63		360000	3.8	700	270	65	1	130	2.1	3.4	0.28	0.0012
Background Samples - ERM																		
BG-1	5.5'	05/21/14	<2.1	**0.77**	NA	0.19 J	0.057 J	18.6	NA	38.9	2.5	**342**	0.0073 J	14.9	<1	0.17 J	<1.0	**34.6**
BG-2	3'	05/21/14	<2.3	**1.1**	NA	0.43 J	0.19 J	20.6	NA	65.2	7.8	**311**	0.034 J	12.8	<1.1	0.24 J	<1.1	**35.2**
BG-3	3'	05/21/14	<2.2	**1**	NA	0.47 J	0.22 J	21.8	NA	72.3	8.4	**322**	0.042 J	13.3	<1.1	0.24 J	<1.1	**37.6**
BG-4	4'	05/21/14	<2.2	0.54	NA	0.29 J	0.11 J	9.2	NA	40.1	4.2	**363**	0.0056 J	6.9	<1.1	0.26 J	<1.1	**47.7**
BG-5	2'	05/21/14	<4.5	**1.4**	NA	0.48 J	<0.9	56.7	NA	77.7	3.1 J	**552**	0.034 J	20.2	2.1 J	0.64 J	<2.2	**54.4**
BG-6	3'	05/21/14	<4.1	**1.3** J	NA	0.18 J	<0.81	78.5	NA	58.3	4.1	**419**	0.012 J	24.3	2 J	0.67 J	<2.0	**35.3**
BG-7	3'	05/21/14	<4.1	**0.93** J	NA	0.18 J	<0.82	82	NA	61.2	4.9	**521**	0.023 J	27.9	**2.6** J	0.65 J	<2.1	**45.3**
Baseline (Background) Samples - GaiaTech																		
WP-1	21.5-23.5'	07/26/11	NA	**5.7**	140	NA	1.4	99	NA	NA	7.7	NA	0.044	NA	<1.5	2.7	NA	NA
WP-2	10-12'	07/26/11	NA	**3.2**	150	NA	0.66	100	NA	NA	2.9	NA	<0.024	NA	<1.2	1.2	NA	NA
WP-3	13-15'	07/26/11	NA	**3.8**	120	NA	0.73	35	NA	NA	2.9	NA	<0.022	NA	<1.1	1.4	NA	NA
WP-4	10-12'	07/26/11	NA	**1.9**	210	NA	1.5	5.2	NA	NA	13	NA	<0.026	NA	<1.3	2.3	NA	NA
ERM Samples																		
WP-49	3'	05/21/14	<4.1	NA	NA	<1	NA	NA	NA	74.1	NA	**343**	NA	23.6	NA	NA	**0.59** B	**127**
WP-50	4'	05/21/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-50	12.5'	05/21/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-51	4'	05/22/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-53	1'	05/22/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-53	3'	05/22/14	<4.5	NA	NA	0.26 J	NA	NA	NA	55.9	NA	**242**	NA	20.7	NA	NA	<2.3	**37.1**
DUP-1	3'	05/22/14	<3.9	NA	NA	0.14 J	NA	NA	NA	49.3	NA	**215**	NA	16.6	NA	NA	<2.0	**34.2**
WP-54	1'	05/22/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-55	0.5'	06/06/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-56	3'	07/09/15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GaiaTech Samples																		
WP-5	6-8'	07/26/11	NA	**4.2**	79	NA	1.2	63	NA	NA	14	NA	0.029	NA	<1.2	2	NA	NA
WP-5	10.5-12.5'	07/26/11	NA	**4.2**	88	NA	1.4	66	NA	NA	10	NA	0.03	NA	<1.3	2.5	NA	NA
WP-6	3-5'	07/26/11	NA	**5.5**	210	NA	1.4	59	NA	NA	5.6	NA	<0.028	NA	<1.4	2.1	NA	NA
WP-6	18-20'	07/26/11	NA	**6.1**	230	NA	1	14	NA	NA	4.5	NA	<0.025	NA	<1.3	1.7	NA	NA
WP-7	6-8'	07/26/11	NA	**4.8**	76	NA	0.94	56	NA	NA	3.6	NA	<0.026	NA	<1.3	1.7	NA	NA
WP-8	1.5-3'	07/26/11	NA	<5.4	68	NA	<0.27	56	NA	NA	<1.4	NA	<0.022	NA	**7**	<0.054	NA	NA
WP-9	1-3'	07/26/11	NA	<6.5	57	NA	<0.32	63	NA	NA	0.65	NA	<0.026	NA	**6.1**	<0.65	NA	NA
WP-10	1-2'	07/26/11	NA	<6.4	170	NA	<0.32	38	NA	NA	6.9	NA	<0.026	NA	**13**	<0.64	NA	NA
WP-11	3-5'	07/27/11	NA	<1.1	150	NA	<0.28	48	NA	NA	2.9	NA	<0.022	NA	<5.6	<0.56	NA	NA
WP-12	5-7'	07/27/11	NA	**1.9**	150	NA	<0.33	35	NA	NA	3	NA	<0.026	NA	<6.6	<0.66	NA	NA

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	Metals - Method 6010B/7471 (mg/kg)															
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Delineation Criteria - Residential			6.2	0.68	3000	32	14	24000	0.3	620	400	360	1.9	300	78	78	0.16	4600
PSRGs - Industrial			94	3	44000	460	200	100000	6.3	9400	800	5200	3.1	4400	1200	1200	2.4	70000
PSRGs - Protection of Groundwater			0.9	5.8	580	63		360000	3.8	700	270	65	1	130	2.1	3.4	0.28	0.0012
WP-13	5-6'	07/27/11	NA	**1.6**	200	NA	<0.32	51	NA	NA	3.5	NA	<0.025	NA	<6.3	0.64	NA	NA
WP-14	8-10'	07/27/11	NA	<5.7	180	NA	0.58	180	<2.0	NA	7	NA	<0.023	NA	<5.7	0.91	NA	NA
WP-15	3-5'	07/27/11	NA	<1	81	NA	<0.26	200	<2.0	NA	3	NA	<0.021	NA	<5.3	<0.53	NA	NA
WP-16	3-5'	07/27/11	NA	<1.1	79	NA	<0.27	35	NA	NA	2.1	NA	<0.022	NA	<5.4	<0.54	NA	NA
SS-1	Surface	07/27/11	NA	<1.4	110	NA	<0.35	69	NA	NA	8.7	NA	<0.028	NA	<7	<0.7	NA	NA
SS-2	Surface	07/27/11	NA	<1.3	110	NA	<0.33	52	NA	NA	9.9	NA	<0.026	NA	<6.6	<0.66	NA	NA
WP-17	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-17	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-17	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-18	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-18	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-19	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-19	4'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-20	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-20	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-20	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-21	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-21	4'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-22	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-22	4'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-23	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-23	3'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-24	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-24	3'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-25	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-25	2'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-26	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-26	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-27	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-27	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-27	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-28	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-28	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-28	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-28	15'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	Metals - Method 6010B/7471 (mg/kg)															
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Delineation Criteria - Residential			6.2	0.68	3000	32	14	24000	0.3	620	400	360	1.9	300	78	78	0.16	4600
PSRGs - Industrial			94	3	44000	460	200	100000	6.3	9400	800	5200	3.1	4400	1200	1200	2.4	70000
PSRGs - Protection of Groundwater			0.9	5.8	580	63		360000	3.8	700	270	65	1	130	2.1	3.4	0.28	0.0012
WP-29	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-29	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-29	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-29	15'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-29	19'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-30	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-30	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-30	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-30	13'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-31	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-31	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-31	10'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-31	13'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-32	6"	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-32	5'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-32	9'	10/23/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-33	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-33	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-34	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-34	3'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-35	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-35	2'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-36	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-36	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-36	10'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-37	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-37	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-37	6'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-38	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-38	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-39	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-40	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-40	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-40	7'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-41	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3. SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Depth	Date	Metals - Method 6010B/7471 (mg/kg)															
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Delineation Criteria - Residential			6.2	0.68	3000	32	14	24000	0.3	620	400	360	1.9	300	78	78	0.16	4600
PSRGs - Industrial			94	3	44000	460	200	100000	6.3	9400	800	5200	3.1	4400	1200	1200	2.4	70000
PSRGs - Protection of Groundwater			0.9	5.8	580	63		360000	3.8	700	270	65	1	130	2.1	3.4	0.28	0.0012
WP-41	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-41	8'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-42	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-42	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-42	6'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-43	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-43	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-43	8'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-47	6"	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-47	5'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-47	9'	02/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

VOCs: Volatile organic compounds; SVOCs: Semi-Volatile organic compounds; TPH: Total Petroleum Hydrocarbons

IHSB Preliminary health-based soil remediation goals (PSRGs) , updated September 2015

(µg/kg) = micrograms per kilogram (mg/kg) = miligrams per kilogram

Only detected compounds are listed.

< = Below Laboratory Detection Limit; NA: Not Analyzed; NE: Not Established

B = analyte found in associated method blank; J = estimated value greater than the method detection limit but less than the reporting limit

Bolded Highlighted values exceed the lowest of the listed PSRGs

Highlighted "<" values were not detected, but the detection limits were greater than the applicable PSRG

WP-44 through WP-46 collected by not analyzed

TABLE 4. SUMMARY OF SOIL TOTAL VOC & SPLP VOC ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

				VOCs - Method 8260B											
Sample ID	**Depth**	**Date**	**Unit**	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl ethyl ketone	Methylene chloride	Styrene	Tetrachloroethylene	Toluene	Trichloroethylene	Xylene (total)
WP-51	4'	5/22/2014	µg/kg	<68	<6.8	<6.8	<6.8	<6.8	<34	<14	<6.8	<6.8	<6.8	26	<20.8
WP-51	4'	5/22/2014	µg/l	<25	0.34 J	<1.0	<1.0	5.2	<5.0	<2.0	<1.0	2.9	10.9	<1.0	31.6
WP-53	1'	5/22/2014	µg/kg	<74	<7.4	<7.4	<7.4	<7.4	<37	<14	<7.4	<7.4	<7.4	5.6 J	<22.4
WP-53	1'	5/22/2014	µg/l	<25	<1.0	<1.0	<1.0	6	<5.0	<5.0	<1.0	<1.0	12.7	<1.0	43.6
WP-53	3'	5/22/2014	µg/kg	<67	<6.7	<6.7	<6.7	<6.7	<33	<6.7	<6.7	<6.7	<6.7	21.6	<19.7
WP-53	3'	5/22/2014	µg/l	<25	0.64 J	<1.0	<1.0	11.6	<5.0	<2.0	<1.0	0.41 J	21	<1.0	89.4
WP-54	1'	5/22/2014	µg/kg	<50	<5.0	<5.0	<5.0	<5.0	<25	<10	<5.0	7.8	<5.0	1,090	<15
WP-54	1'	5/22/2014	µg/l	<25	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	0.52 J	<1.0	0.25 J	<1.0	1.9
WP-55	0.5'	6/6/2014	µg/kg	<56	<5.6	<5.6	<5.6	<5.6	<28	<11	<5.6	<5.6	<5.6	<5.6	<16.6
WP-55	0.5'	6/6/2014	µg/l	<25	<1.0	<1.0	<1.0	1.1	<5.0	<2.0	1	<1.0	0.92	<1.0	23.3
WP-56	3'	7/9/2015	µg/kg	<52	<5.2	<5.2	<5.2	<5.2	<26	<5.2	<5.2	<5.2	<5.2	<5.2	<15.2
WP-56	3'	7/9/2015	µg/l	23.9 J	0.35 J	<1.0	<1.0	9.9	<5.0	<2.0	<1.0	<1.0	7.7	<1.0	58.3

Notes:

µg/kg = micrograms per kilogram

µg/l = micrograms per liter

"<" = compound not detected above method detection limit

blue values mean compound was detected

Green boxed dataset used to determine SPLP

TABLE 5. SUMMARY OF HISTORICAL GROUNDWATER RESULTS FOR VOCs, SVOCs & TPH - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Date	VOCs - Method 5035A/8260B (µg/L)																	SVOCs-8270	TPH 8015 & 3546 DRO	
		Total VOCs	Acetone	Bromodichloromethane	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane (Methyl chloride)	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Methyl tertiary butyl ether (MTBE)	Tetrachloroethene	Toluene	Trichloroethene	Xylenes (total)	1,4-Dioxane	Total SVOCs	Gasoline Range - GRO (C5 to C9) *	Diesel Range - DRO (C9 to C18)**
NC 2L Groundwater		**NE**	**6000**	**0.6**	**4000**	**3000**	**70**	**5**	**350**	**0.4**	**70**	**600**	**20**	**0.7**	**600**	**3**	**500**	**3**	Varies	400	10000
WP-5	07/27/11	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1	BDL	BDL	BDL	NA	NA
WP-8 (GP-8)	07/26/11	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1	BDL	BDL	BDL	<100	7000
MW-1	10/26/12	6.9	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**6.9**	BDL	BDL	BDL	NA	<500
MW-1	05/15/14	18.86	<25	<1	NA	<2	<1	<5	<1	**0.66 J**	0.6 J	0.5 J	<1	<1	0.28 J	**13.9**	2.5 J	0.42 J	NA	NA	NA
DW-1	06/06/14	82.18	<25	<1	NA	<2	<1	<5	<1	<1	1.9	<1	0.28 J	<1	<1	**80**	<0.66	<0.3	NA	NA	NA
DW-1	10/15/14	84.1	<20	<1	<10	<2	<1	<1	<1	<1	1.1	<1	<1	<1	<1	**83**	<1	<3	NA	NA	NA
DW-1	01/08/15	81	<20	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**81**	<5	NA	NA	NA	NA
DW-1D	10/15/14	51.3	<20	<1	<10	<2	<1	<1	<1	<1	2.3	<1	<1	<1	<1	**49**	<1	<3	NA	NA	NA
DW-1D	01/08/15	44	<20	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**44**	<5	NA	NA	NA	NA
MW-2	10/25/12	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1	BDL	BDL	BDL	NA	<500
MW-2	05/16/14	0.22	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	0.22 J	<1	<0.66	<0.3	NA	NA	NA
MW-3	10/25/12	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1	BDL	BDL	BDL	NA	<500
MW-3	05/15/14	0.23	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	0.23 J	<1	<0.66	<0.3	NA	NA	NA
MW-4	10/25/12	45.8	BDL	BDL	BDL	BDL BD	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**45.8**	BDL	BDL	BDL	NA	<500
MW-4	05/16/14	8.63	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	0.23 J	**8.4**	<0.66	<0.3	NA	NA	NA
DUP-1	05/16/14	9.16	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	0.26 J	**8.9**	<0.66	<0.3	NA	NA	NA
MW-5	08/27/13	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1	BDL	BDL	NA	NA	NA
MW-5 (DUP)	08/27/13	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1	BDL	BDL	NA	NA	NA
MW-5	05/16/14	BDL	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.66	<0.3	NA	NA	NA
MW-6	08/27/13	1.5	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	BDL	BDL	NA	NA	NA
MW-6	05/16/14	BDL	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.66	<0.3	NA	NA	NA
MW-7	08/26/13	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<1	BDL	BDL	NA	NA	NA
MW-7	05/16/14	0.74	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	0.74 J	<0.3	NA	NA	NA
MW-8	08/26/13	1.5	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	BDL	BDL	NA	NA	NA
MW-8	05/16/14	0.25	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	0.25 J	<0.3	NA	NA	NA
MW-9	08/26/13	6.7	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**6.7**	BDL	BDL	NA	NA	NA
MW-9	05/15/14	9.24	<25	<1	NA	<2	<1	<5	<1	<1	0.41 J	<1	0.23 J	<1	<1	**8.6**	<0.66	<0.3	NA	NA	NA
MW-10	08/26/13	10.2	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**10.2**	BDL	BDL	NA	NA	NA
MW-10	05/15/14	3.49	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	3	<0.66	0.49 J	NA	NA	NA
MW-10	10/15/14	BDL	<1000	<50	<500	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<3	NA	NA	NA
MW-11	06/06/14	131.76	<25	<1	NA	<2	5	<5	0.86 J	<1	2.9	<1	<1	<1	<1	**128**	<0.66	<0.3	NA	NA	NA
MW-11	10/15/14	3718.45	<20	<1	<10	<2	0.38 J	<1	11	<1	0.95 J	<1	<1	**6.5**	<1	**3700**	<1	<3	NA	NA	NA
MW-11	11/24/14	3500	<1000	<250	<500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	**3500**	<250	NA	NA	NA	NA
MW-11	11/26/14	3300	<1000	<250	<500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	**3300**	<250	NA	NA	NA	NA
MW-11	08/07/15	3100	<400	<20	<200	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20	**3100**	<20	NA	NA	NA	NA
MW-12	06/05/14	BDL	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.66	<0.3	NA	NA	NA
MW-13	10/15/14	BDL	<20	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	NA	NA	NA
MW-13	01/08/15	BDL	<20	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA
MW-14	08/04/15	BDL	2.4 J	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA
MW-14	09/23/15	BDL	3.7	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA

TABLE 5. SUMMARY OF HISTORICAL GROUNDWATER RESULTS FOR VOCs, SVOCs & TPH - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Date	VOCs - Method 5035A/8260B (µg/L)																	SVOCs-8270	TPH 8015 & 3546 DRO	
		Total VOCs	Acetone	Bromodichloromethane	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane (Methyl chloride)	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Methyl tertiary butyl ether (MTBE)	Tetrachloroethene	Toluene	Trichloroethene	Xylenes (total)	1,4-Dioxane	Total SVOCs	Gasoline Range - GRO (C5 to C9) *	Diesel Range - DRO (C9 to C18)**
NC 2L Groundwater		**NE**	**6000**	**0.6**	**4000**	**3000**	**70**	**5**	**350**	**0.4**	**70**	**600**	**20**	**0.7**	**600**	**3**	**500**	**3**	Varies	400	10000
MW-14D	08/04/15	BDL	<20	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA
MW-14D	09/23/15	BDL	<20	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA
MW-15	08/04/15	0.8	<20	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.8 J	<1	NA	NA	NA	NA
MW-15D	08/05/15	11.87	6.9 J	<1	<10	1.3 J	<1	0.32 J	<1	<1	0.87 J	<1	<1	<1	<1	**11**	<1	NA	NA	NA	NA
MW-16	08/05/15	280	<100	<5	<50	<10	13	<5	<5	<5	<5	<5	<5	<5	<5	**280**	<5	NA	NA	NA	NA
DW-16	08/05/15	280	<100	<5	<50	<10	16	<5	<5	<5	<5	<5	<5	<5	<5	**280**	<5	NA	NA	NA	NA
DW-16D	08/05/15	60.56	15 J	<1	<10	<2	21	<1	<1	<1	3	<1	<1	<1	0.56 J	**57**	<1	NA	NA	NA	NA
MW-17	08/05/15	62.45	<20	**0.83 J**	<10	<2	11	<1	<1	<1	0.45 J	<1	<1	<1	<1	**62**	<1	NA	NA	NA	NA
DW-17	08/05/15	183.89	2.2 J	0.37 J	<10	<2	27	<1	1.4	<1	2	<1	<1	0.49 J	<1	**180**	<1	NA	NA	NA	NA
DW-17D	08/06/15	59.5	<20	0.32 J	<10	<2	7.1	<1	<1	<1	2.5	<1	<1	<1	<1	**57**	<1	NA	NA	NA	NA
OB-1A	08/06/15	14000	<2000	<100	<1000	<200	<100	<100	<100	<100	<100	<100	<100	<100	<100	**14000**	<100	NA	NA	NA	NA
OB-1B	11/24/14	180	<20	<5	<10	<5	15	<5	<5	<5	<5	<5	<5	<5	<5	**180**	<5	NA	NA	NA	NA
OB-1B	11/26/14	26	740	<5	490	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**26**	<5	NA	NA	NA	NA
OB-1B	08/06/15	1705.9	<200	<10	<100	<20	<10	<10	5.9 J	<10	<10	<10	<10	<10	<10	**1700**	<10	NA	NA	NA	NA
OB-2A	08/06/15	8900	<1000	<50	<500	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50	**8900**	<50	NA	NA	NA	NA
OB-2B	11/24/14	140	<20	<5	<10	<5	6.3	<5	<5	<5	<5	<5	<5	<5	<5	**140**	<5	NA	NA	NA	NA
OB-2B	11/26/14	200	580	<25	370	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**200**	<25	NA	NA	NA	NA
OB-2B	08/06/15	510	<100	<5	<50	<10	7.1	<5	<5	<5	<5	<5	<5	<5	<5	**510**	<5	NA	NA	NA	NA

Notes:
Only detected compounds are listed.
Groundwater criteria are NCAC 2L 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
µg/L = micrograms per liter; J = estimated value greater than the method detection limit but less than the reporting limit
*Comparing GRO results to groundwater quality standard for petroleum aliphatic carbon fraction class (C5-C8)
**Comparing DRO results to groundwater quality standard for petroleum aliphatic carbon fraction class (C19-C36)
Highlighted values exceed NC2L Standards

TABLE 6. SUMMARY OF CURRENT AND HISTORICAL GROUNDWATER RESULTS FOR METALs - ECI WHITSETT FACILITY - WHITSETT, NORT

Sample ID	Date	Total Metals - EPA Method 6010 (µg/L)															
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium, Total	Copper	Lead	Manganese	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
NC 2L Groundwater		**1 ***	**10**	**700**	**4 ***	**2**	**10**	**1000**	**15**	**50**	**50**	**1**	**100**	**20**	**20**	**0.2 ***	**1000**
WP-5	07/27/11	NA	**20**	45	NA	**5**	<10	NA	<5	NA	NA	<0.2	NA	**22**	<10	NA	NA
WP-8 (GP-8)	07/26/11	NA	**20**	19	NA	**5**	<10	NA	<5	NA	NA	<0.2	NA	<20	<10	NA	NA
MW-1	10/26/12	<5	<5	NA	<1	<1	<5	5.6	<5	**227**	NA	<0.2	<5	<10	<5	<10	11
MW-1	05/15/14	NA	NA	NA	NA	NA	NA	NA	NA	**467**	NA	NA	NA	NA	NA	NA	NA
MW-2**	10/25/12	<5	<5	NA	<1	<1	<5	<5	<5	**134**	NA	<0.2	<5	<10	<5	<10	<10
MW-2**	05/16/14	NA	NA	NA	NA	NA	NA	NA	NA	**69.9**	**65.8**	NA	NA	NA	NA	NA	NA
MW-3**	10/25/12	<5	<5	NA	<1	<1	<5	7.1	<5	28.7	NA	<0.2	<5	<10	<5	<10	<10
MW-3**	05/15/14	NA	NA	NA	NA	NA	NA	NA	NA	13 B	2.8 B	NA	NA	NA	NA	NA	NA
MW-4	10/25/12	<5	<5	NA	<1	<1	<5	<5	<5	**147**	NA	<0.2	<5	<10	<5	<10	<10
MW-4	05/16/14	NA	NA	NA	NA	NA	NA	NA	NA	**141**	NA	NA	NA	NA	NA	NA	NA
MW-5**	08/27/13	<5	<10	NA	<1	<1	<5	48.3	<5	**862**	NA	<0.2	<5	<10	<5	<10	<10
MW-5 (DUP)	08/27/13	<5	<10	NA	<1	<1	<5	21	<5	**288**	NA	<0.2	<5	<10	<5	<10	<10
MW-5**	05/15/14	NA	NA	NA	NA	NA	NA	NA	NA	**54.9**	**52.8**	NA	NA	NA	NA	NA	NA
MW-6	08/27/13	<5	<10	NA	<1	<1	<5	<5	<5	**137**	NA	<0.2	<5	<10	<5	<10	<10
MW-6	05/16/14	NA	NA	NA	NA	NA	NA	NA	NA	**64.9**	NA	NA	NA	NA	NA	NA	NA
MW-7	08/26/13	<5	<10	NA	<1	<1	<5	<5	<5	33.1	NA	<0.2	<5	<10	<5	<10	<10
MW-8	08/26/13	<5	<10	NA	<1	<1	<5	<5	<5	**97.2**	NA	<0.2	<5	<10	<5	<10	<10
MW-8	05/16/14	NA	NA	NA	NA	NA	NA	NA	NA	**223**	NA	NA	NA	NA	NA	NA	NA
MW-9	08/26/13	<5	<10	NA	<1	<1	<5	<5	<5	**294**	NA	<0.2	<5	<10	<5	<10	<10
MW-10	08/26/13	<5	<10	NA	<1	<1	<5	<5	<5	**99.1**	NA	<0.2	<5	<10	<5	<10	<10
MW-10	05/15/14	NA	NA	NA	NA	NA	NA	NA	NA	**159**	NA	NA	NA	NA	NA	NA	NA
MW-11	06/06/14	NA	NA	NA	NA	NA	NA	NA	NA	**700**	NA	NA	NA	NA	NA	NA	NA
MW-12	06/05/14	NA	NA	NA	NA	NA	NA	NA	NA	**72.9**	NA	NA	NA	NA	NA	NA	NA
DW-1	06/06/14	NA	NA	NA	NA	NA	NA	NA	NA	**479**	NA	NA	NA	NA	NA	NA	NA

Notes

Groundwater Standard - 15A NCAC 02L .0202 Groundwater Standards (Effective April 1, 2013)

* - Interm Maximum Allowable Concentrations (IMACs)

** MW-2, MW-3 and MW-5 considered upgradient and reprepresentative of background groundwa background groundwater quality

Highlighted values exceed NC2L Standards

TABLE 7. SUMMARY OF NATURAL ATTENUATION PARAMETERS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Monitoring Well ID	Sample Date	Iron µg/l	Manganese, Dissolved µg/l	Nitrogen, Nitrate mg/l	Nitrogen, Nitrite mg/l	Sulfate mg/l	Sulfide mg/l	Total Organic Carbon mg/l	pH	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (˚C)	Oxidation Reduction Potential (mV)	Turbidity (mV)
Ideal Requirements for Natural Attenuation		>1	increasing	<1	<1	<20	<20	>20	5 to 9	(Purge Stabilization Parameter)	<1	>20 (Microbial Activity Slows at Lower Temperatures	<50	(Purge Stabilization Parameter)
MW-1	05/15/14	1950	467	<0.05	<0.05	30.7	NA	1.8	6.44	594	0.4	20.70	17.3	26.3
DW-1	06/06/14	452	479	<0.05	<0.05	43.9	<0.22	1.5	6.78	463	0.21	19.13	-56.7	0.49
DW-1	10/15/14	NA	NA	NA	NA	NA	NA	NA	7.38	549	1.28	19.01	126	17
DW-1D	10/15/14	NA	NA	NA	NA	NA	NA	NA	9.45	781	0.63	19.27	34	>999
MW-2	05/16/14		65.8	NA	NA	NA	NA	NA	6.54	226.5	2.69	16.80	86.7	6.72
MW-3	05/15/14	98.2 B	2.8 B	1.9	<0.05	32.7	NA	0.54 B	6.69	288.6	5.52	20.20	72.1	3.62
MW-4	05/16/14		141	1.1	<0.05	2	NA	9.6	6.02	105	6.51	18.10	79.3	22.3
DUP-1	05/16/14		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	05/16/14		52.8	NA	NA	NA	NA	NA	5.91	458.5	0.35	15.60	93	2.05
MW-6	05/16/14		64.9	<0.05	<0.05	7.7	NA	22.7	6.68	228.5	5.34	16.02	96.4	9.81
MW-7	05/16/14		NA	NA	NA	NA	NA	NA	7.32	23.1	2.37	17.70	8.5	--
MW-8	05/16/14	12700	223	<0.05	<0.05	48.1	NA	1.6	6.81	470	1.24	17.30	28.4	46
MW-9	05/15/14		NA	NA	NA	NA	NA	NA	6.59	732	0.32	19.80	40.3	14.9
MW-10	05/15/14		159	1.7	<0.05	25.3	NA	0.86 B	5.98	458.4	0.53	18.50	57.8	2.72
MW-10	10/15/14	NA	NA	NA	NA	NA	NA	NA	5.86	444	3.38	18.66	169	71.8
MW-11	06/06/14	1120	700	0.59	<0.05	68.4	<0.22	2.9	6.85	589	1.15	20.71	-19.4	17.1
MW-11	10/15/14	NA	NA	NA	NA	NA	NA	NA	7.25	670	1.44	19.28	110	>999
MW-11	08/07/15	NA	NA	NA	NA	NA	NA	NA	6.97	660	1.76	19.56	160	>999
MW-12	06/05/14	295 B	72.9	<0.05	<0.05	9	1.7	0.8 B	6.45	253	5.57	21.69	45.7	2.81
MW-13	10/15/14	NA	NA	NA	NA	NA	NA	NA	7.82	809	0.66	19.07	106	>999
MW-14	08/04/15	NA	NA	NA	NA	NA	NA	NA	7.57	623	1.61	25.45	118	8.5
MW-14D	08/04/15	NA	NA	NA	NA	NA	NA	NA	7.78	743	2.81	21.52	-103	12.9
MW-15	08/05/15	NA	NA	NA	NA	NA	NA	NA	6.81	507	1.8	24.42	126	9.8
MW-15D	08/05/15	NA	NA	NA	NA	NA	NA	NA	8.3	619	2.59	19.57	-154	>999
MW-16	08/05/15	NA	NA	NA	NA	NA	NA	NA	10.71	464	9.11	20.15	-14	654
DW-16	08/05/15	NA	NA	NA	NA	NA	NA	NA	9.04	471	1.17	19.45	40	210
DW-16D	08/05/15	NA	NA	NA	NA	NA	NA	NA	11.3	532	9.19	18.92	97	866
MW-17	08/05/15	NA	NA	NA	NA	NA	NA	NA	6.99	780	2.81	21.97	76	40.8
DW-17	08/05/15	NA	NA	NA	NA	NA	NA	NA	7.22	548	1.76	19.01	-72	713
DW-17D	08/06/15	NA	NA	NA	NA	NA	NA	NA	7.72	565	1.74	19.41	28	545

Notes:

NA = Not applicable

Highlighted values indicate positive conditions for Natural Attenuation

TABLE 8. SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Tentatively Identified Compounds	Groundwater		Soil		Retained?	Rationale
	Number of Detections in Groundwater	Maximum Estimated Concentration Detected	Number of Detections in Soil	Maximum Estimated Concentration Detected		
	µg/L		mg/kg			
SVOCs - Method 8270C/8270D Estimated Concentrations						
1-Butene	1	39	Not Analyzed	--	No	Single hit, not likely a site contaminant
2,4(1H,3H)-Pyrimidinedione, 6-chloro-5-n	1	50	Not Analyzed	--	No	Single hit, not likely a site contaminant
Carbamodithioic acid, dipropyl-, propyl	1	43	Not Analyzed	--	No	Single hit, not likely a site contaminant
Chloro-2-methyl-1-morpholino-1,3-butad	1	79	Not Analyzed	--	No	Single hit, not likely a site contaminant
Histidine, 4-nitro-	1	40	Not Analyzed	--	No	Single hit, not likely a site contaminant
Hydrazine, 1-methyl-1-(2-propynyl)-	1	29	Not Analyzed	--	No	Single hit, not likely a site contaminant
Isopropyl Alcohol	1	60	Not Analyzed	--	No	Single hit, not likely a site contaminant
n-Hexylmethylamine	1	36	Not Analyzed	--	No	Single hit, not likely a site contaminant
Phenol 4,4'-(1-methylethyl)	1	37.5	Not Analyzed	--	No	Single hit, not likely a site contaminant
Trichloroethylene	1	7.84	Not Analyzed	--	Yes	Analyzed as a VOC
VOC - Method 5035A/8260B Estimated Concentrations						
Carbon dioxide	2	11000	0	--	No	Atmospheric gas; not a VOC
Propanamide, 2-hydroxy-	1	50	0	--	No	Single hit, not likely a site contaminant
1,3-Bis (trimethylsilyl) bez	0	--	1	7.58	No	Single hit, not likely a site contaminant
13-Docosenamide	0	--	2	841		Industrial Uses 1.Adhesives and sealant chemicals 2.Anti-adhesive agents 3.Lubricants and lubricant additives 4.Plating agents and surface treating agents 5.Processing aids, not otherwise listed
1-Hexanol, 2-ethyl-	0	--	1	1770	No	Single hit, not likely a site contaminant
2,4 (1H, 3H) -Pyrimidinedione	0	--	1	130	No	Single hit, not likely a site contaminant
2-Nitroso-1-naphthol-4-sulf	0	--	1	8.77	No	Single hit, not likely a site contaminant
3-Oxatricyclo [5.2.0.0 (2,4)]	0	--	1	158	No	Single hit, not likely a site contaminant
4-(Dimethylamino)-3,5-dinitro-N-(4-phenoxy-phenyl)benz-amide	0	--	1	212	No	Single hit, not likely a site contaminant
7-Methyl-7H-dibenzo[b,g]carbazole	0	--	2	25.4		PHOTOELECTRIC CONVERSION DEVICE, PRODUCTION METHOD THEREOF, PHOTOSENSOR, IMAGING DEVICE AND THEIR DRIVE METHODS
Aminomethanesulfonic acid	0	--	1	23.8	No	Single hit, not likely a site contaminant
Benzenamine, 4-methyl-3-nit	0	--	1	28.9	No	Single hit, not likely a site contaminant
Benzenesulfinic acid, 4-chl	0	--	1	849	No	Single hit, not likely a site contaminant
Cyclohexane, 1-methyl-2-propyl-	0	--	1	110	No	Single hit, not likely a site contaminant
Cyclohexane, pentyl-	0	--	1	91	No	Single hit, not likely a site contaminant
Cyclopentane	0	--	1	250	No	Single hit, not likely a site contaminant
Cyclopentane	0	--	3	23.9	Yes	
Cyclotetrasiloxane, octamethyl	0	--	13	24.2	Yes	
Cyclotrisiloxane, hexamethyl	0	--	22	16.7	Yes	
Decane, 3,6-dimethyl-	0	--	1	458	No	Single hit, not likely a site contaminant
Decane, 3,7-dimethyl-	0	--	1	120	No	Single hit, not likely a site contaminant
Dibutyl phthalate	0	--	1	190	No	Single hit, not likely a site contaminant
Docosane	0	--	1	1180	No	Single hit, not likely a site contaminant
Dodecane, 2-methyl-	0	--	1	532	No	Single hit, not likely a site contaminant
Dodecane, 4-methyl-	0	--	1	311	No	Single hit, not likely a site contaminant
Fluoranthene	0	--	2	468		
Hexadecane, 2,6,10,14-tetra	0	--	2	730		
Hexanal	0	--	1	5.88	No	Single hit, not likely a site contaminant
Naphthalene, decahydro-2,6-dimethy	0	--	1	95	No	Single hit, not likely a site contaminant
Naphthalene, decahydro-2-methyl-	0	--	1	140	No	Single hit, not likely a site contaminant
Nonanal	0	--	4	5.83		
Octanal	0	--	7	7.6		
Pyrrolidine-2, 5-dione, 1-et	0	--	1	205	No	Single hit, not likely a site contaminant
Sulfur Dioxide	0	--	13	360		
trans-Decalin, 2-methyl-	0	--	1	100	No	Single hit, not likely a site contaminant
Tridecane	0	--	1	803	No	Single hit, not likely a site contaminant
Tridecane, 3-methyl-	0	--	1	819	No	Single hit, not likely a site contaminant
Undecane, 2,6-dimethyl-	0	--	1	420	No	Single hit, not likely a site contaminant
Undecane, 4,8-dimethyl-	0	--	1	120	No	Single hit, not likely a site contaminant
Undecane, 5-methyl-	0	--	1	140	No	Single hit, not likely a site contaminant
Undecane, 6,6-dimethyl-	0	--	1	310	No	Single hit, not likely a site contaminant
Unknown Alkane	0	--	2	8.06		

TABLE 9. SUMMARY OF SOIL QA/QC SAMPLE ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Date	Lab Name	QA/QC Sample Description	VOCs - Method 5035A/8260B (µg/kg)					Metals - Method 6010B/7471 (mg/kg)						
				Acetone	Dichlorodifluoromethane	Tetrachloroethene	Toluene	Trichloroethene	Antimony	Beryllium	Copper	Manganese	Nickel	Thallium	Zinc
Bias Analysis		**Data is considered VALID.**													
TRIP BLANK-1	05/21/14	Accutest	Trip Blank	<50	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
TRIP BLANK	05/22/14	Accutest	Trip Blank	<50	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
TRIP BLANK-2	05/22/14	Accutest	Trip Blank	<25	<2	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
TRIP BLANK	06/06/14	Accutest	Trip Blank	<50	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
RB-1	05/22/14	Accutest	Rinse Blank	<25	<1	<1	0.58 J	<1	<6	<4	4.2 B	2.5 B	<40	<10	10.2 B

Laboratory QA/QC Exceptions:

FA15202 (a) Elevated reporting limit(s) due to matrix interference.

FA15245 (a) Elevated reporting limit(s) due to matrix interference.
(a) Associated BS recovery outside control limits.

FA25913 No exceptions noted

Field QA/QC:

Review of the results of the trip, field, and equipment blank sample analyses indicate no sources of error from the sample collection, handling, and preservation procedures.

Completeness Analysis **Data is considered VALID.**

Review of the dataset for this project indicate that an adequate number of monitoring locations exist to define and monitor the plume.
Samples were collected from all active monitoring points containing sufficient groundwater to allow sample collection.

Comparability Analysis **Data is considered VALID.**

Review of the dataset for this project indicate that results for each sample were analyzed using the same methods and are presented using consistent units.

Precision Analysis		**Data is considered VALID.**													
GP-53 @ 3'	05/22/14	Accutest	Sample	<67	<6.7	<6.7	21.6	21.6	<4.5	0.26 B	55.9	242	20.7	<2.3	37.1
DUP-1	05/22/14	Accutest	Duplicate	<65	<6.5	<6.5	42.5	42.5	<3.9	0.14 B	49.3	215	16.6	<2	34.2
Calculated Relative Percent Difference (RPD)				---	---	---	*65%*	*65%*	---	*60%*	*13%*	*12%*	*22%*	---	*8%*

Calculated RPDs <20 are preferred. The data is considered valid.

Sensitivity Analysis **Data is considered VALID.**

The detection limits listed for each analyte are less than or equal to the respective applicable regulatory limit, unless dilution of samples were necessary.
Exceptions: Antimony, Thallium, & Tetrachloroethene

Notes:

NA = Not Analyzed

RPD should be less than 20%

TABLE 10. SUMMARY OF GROUNDWATER QA/QC SAMPLE ANALYTICAL RESULTS - ECI WHITSETT FACILITY - WHITSETT, NORTH CAROLINA

Sample ID	Date	Lab Name	QA/QC Sample Description	VOCs - Method 5035A/8260B (µg/L)															
				Acetone	Bromodichloromethane	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane (Methyl c	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Methyl tertiary butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Xylenes (total)	1,4-Dioxane
Bias Analysis		**Data is considered VALID.**																	
Trip Blank	05/15/14	Accutest	Trip Blank	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<1
Trip Blank	06/05/14	Accutest	Trip Blank	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<1
Trip Blank	06/06/14	Accutest	Trip Blank	<25	<1	NA	<2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<3	<1
RB-1	05/16/14	Accutest	Rinse Blank	<1	<1	<1	<1	<1	<1	0.52 J	<1	<1	<1	<1	<1	0.52 J	<1	<3	<1
Trip Blank	10/15/14	Shealy	Trip Blank	<20	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Trip Blank	11/24/14	Shealy	Trip Blank	<20	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
Trip Blank	01/08/15	Shealy	Trip Blank	<20	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
Trip Blank	08/05/15	Shealy	Trip Blank	<20	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Trip Blank	09/23/15	Shealy	Trip Blank	<20	<1	<10	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA

Laboratory QA/QC Exceptions:

FA15066 (a) Confirmation run.
(b) Outside control limits.
(a) Field analysis required. Received out of hold time and analyzed by request.

FA15089 (a) Result is from Run# 2
(b) Associated Initial Calibration outside control limits.
(a) Field analysis required. Received out of hold time and analyzed by request.

FA15588 No exceptions were noted on the laboratory report.

FA15635 (a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

PJ17075 No exceptions were noted on the laboratory report.

Field QA/QC:

Review of the results of the trip, field, and equipment blank sample analyses indicate no sources of error from the sample collection, handling, and preservation procedures.

Completeness Analysis **Data is considered VALID.**

Review of the dataset for this project indicate that an adequate number of monitoring locations exist to define and monitor the plume.
Samples were collected from all active monitoring points containing sufficient groundwater to allow sample collection.

Comparability Analysis **Data is considered VALID.**

Review of the dataset for this project indicate that results for each sample were analyzed using the same methods and are presented using consistent units.

Precision Analysis		**Data is considered VALID.**																	
MW-4	05/16/14	Accutest	Sample	<0.25	<0.24	<0.31	<0.33	<0.28	<0.2	0.23 J	<0.24	<0.31	<0.33	<0.28	<0.2	0.23 J	8.4	<0.66	<0.3
Dup-1	05/16/14	Accutest	Duplicate	<0.25	<0.24	<0.31	<0.33	<0.28	<0.2	0.26 J	<0.24	<0.31	<0.33	<0.28	<0.2	0.26 J	8.9	<0.66	<0.3
Dup-1 Analysis lculated Relative Percent Difference (RPD)				---	---	---	---	---	---	*12%*	---	---	---	---	---	*12%*	*6%*	---	---

Calculated RPDs <20 are preferred. The data is considered valid.

Sensitivity Analysis **Data is considered VALID.**

The detection limits listed for each analyte are less than or equal to the respective applicable regulatory limit, unless dilution of samples were necessary.

Notes:

NA = Not Analyzed

RPD should be less than 20%

FIGURES

ERM NC, Inc.

DATE: 9/30/2015	SCALE: AS SHOWN	DRAWN: A Freeman
FILE: ECI/WhitsettGIS/MXD/Figure 1 SLM		

FIGURE 1
Site Location Map

Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

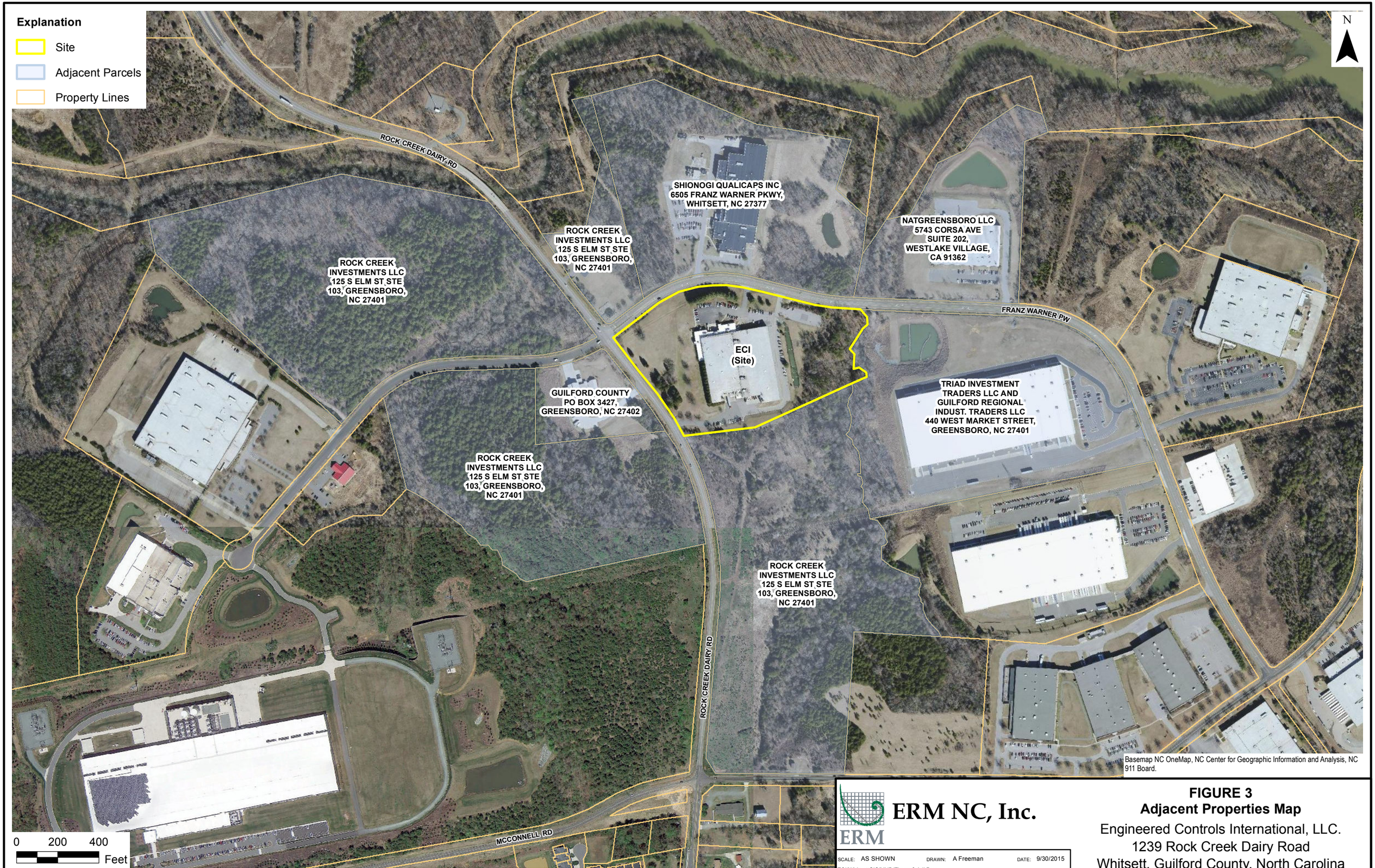
ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 9/30/2015

ECI/WhitsettGIS/MXD/Figure 2 SM

FIGURE 2
Site Map

Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina



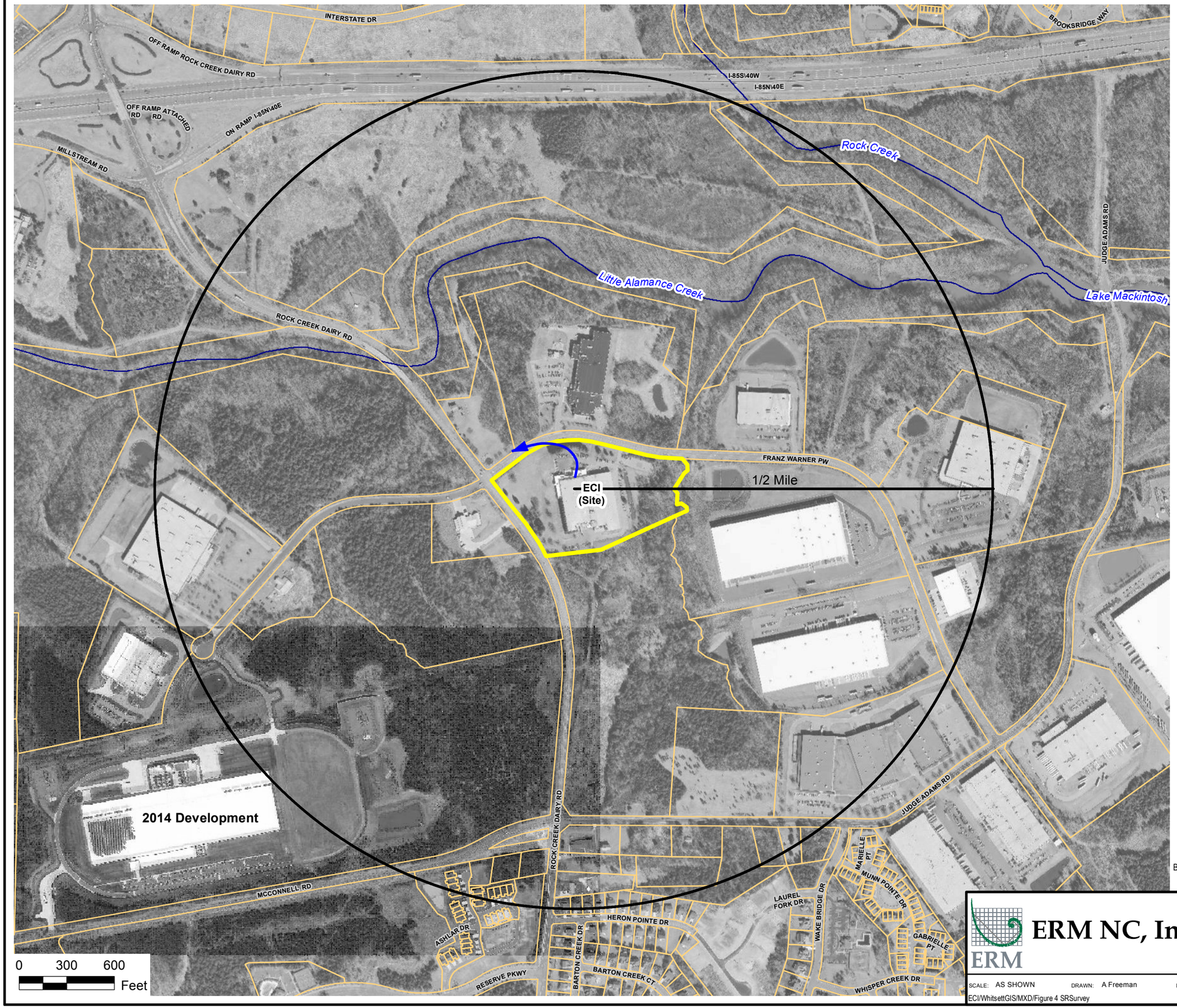
ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 9/30/2015

ECI/WhitsettGIS/MXD/Figure 3 Adj Prop

FIGURE 3
Adjacent Properties Map

Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina



N

Explanation

- 1/2 Mile Radius from Source Area
- Primary Groundwater Flow Direction
- Site
- Parcel Lines
- Water Quality Classifications

No water supply wells identified in survey area.

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

ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 9/30/2015

ECI/WhitsettGIS/MXD/Figure 4 SRSurvey

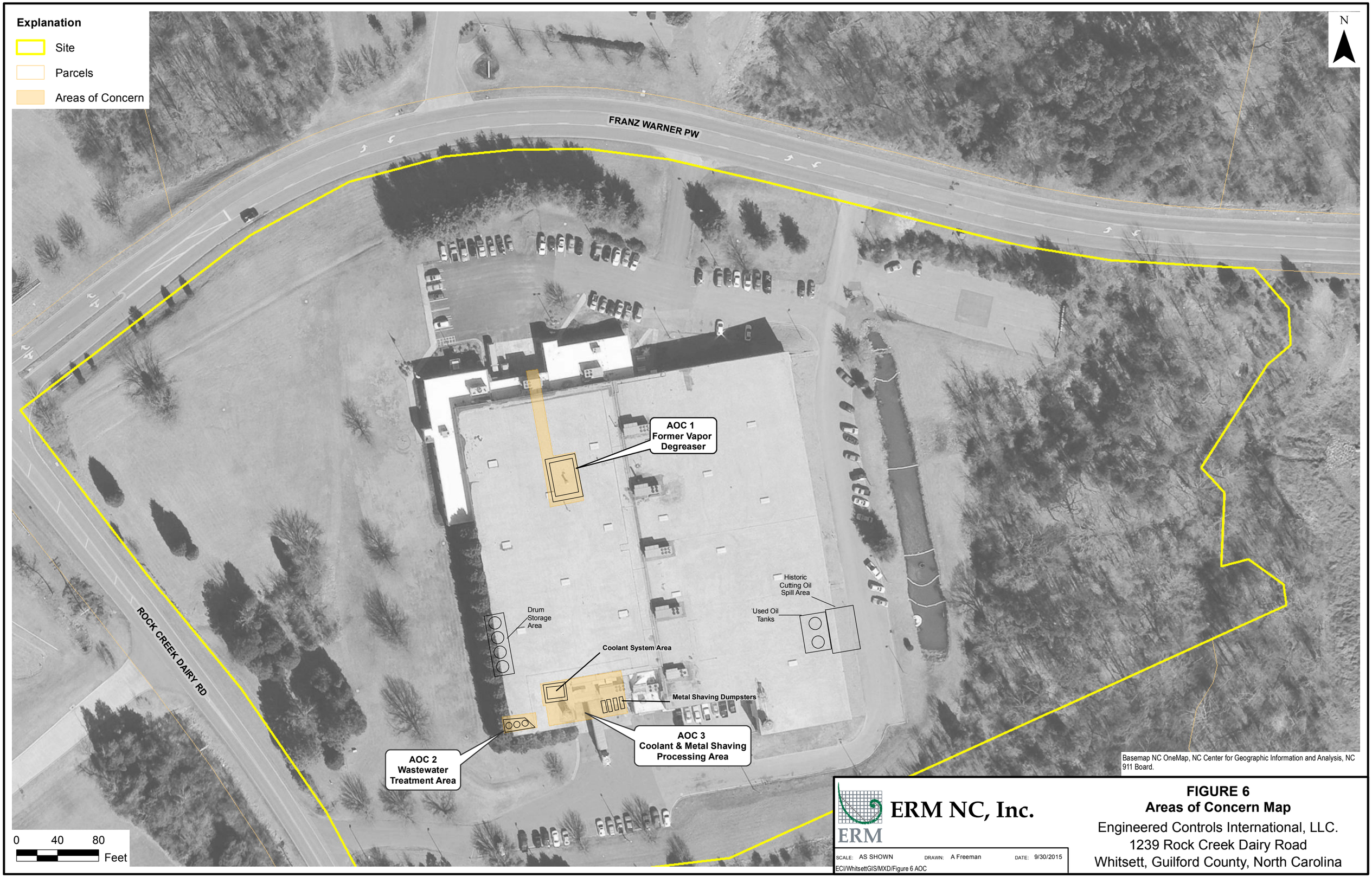
FIGURE 4
Sensitive Receptor Survey Results
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 9/30/2015

ECI/WhitsettGIS/MXD/Figure 5 Historical Soil& GW

FIGURE 5
Historical Soil & Groundwater Sample Locations
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina



ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 9/30/2015

ECI/WhitsettGIS/MXD/Figure 6 AOC

FIGURE 6
Areas of Concern Map

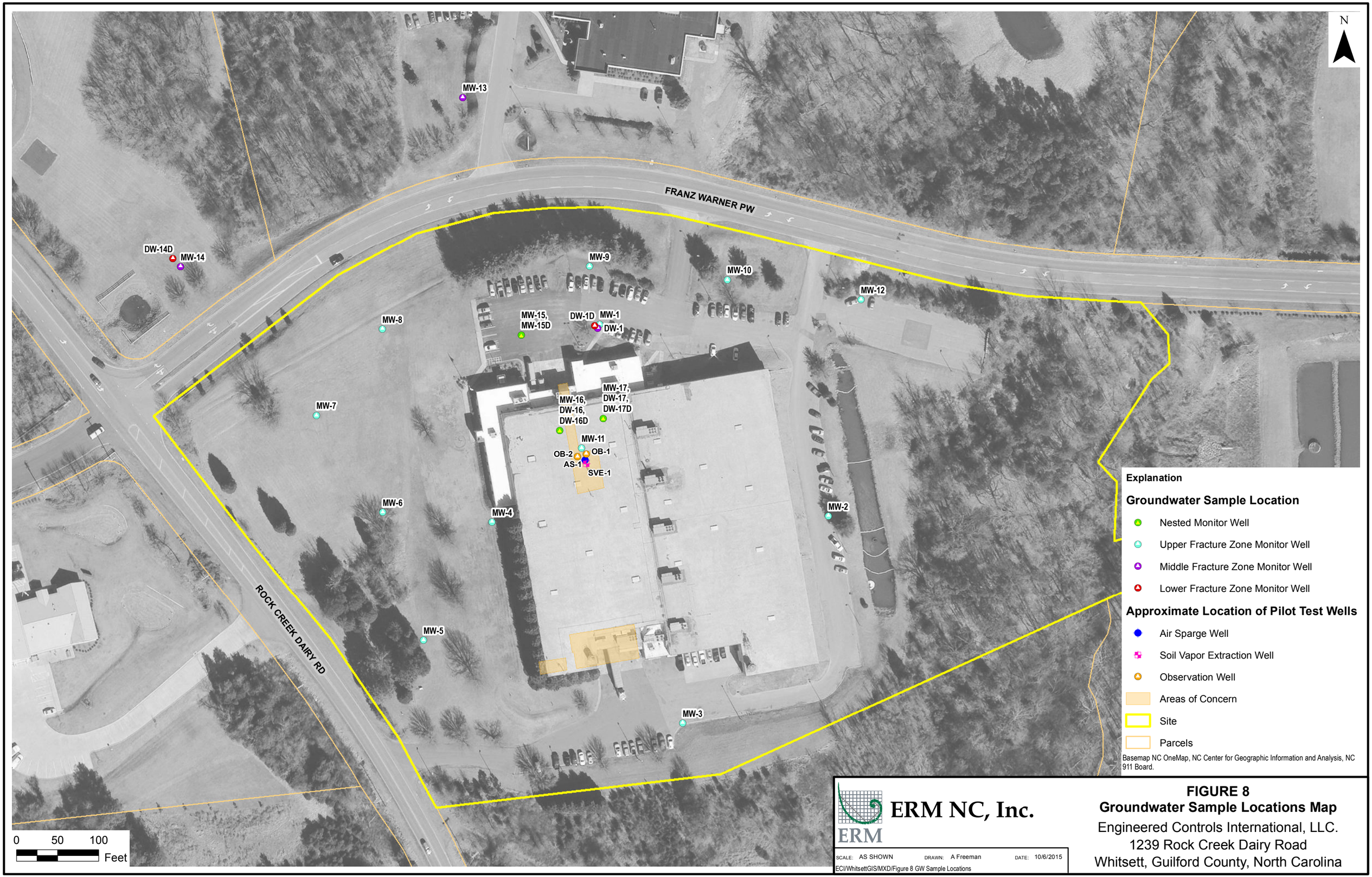
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 9/30/2015

ECI/WhitsettGIS/MXD/Figure 7 Soil Sample Locations

FIGURE 7
Soil Sample Locations Map
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

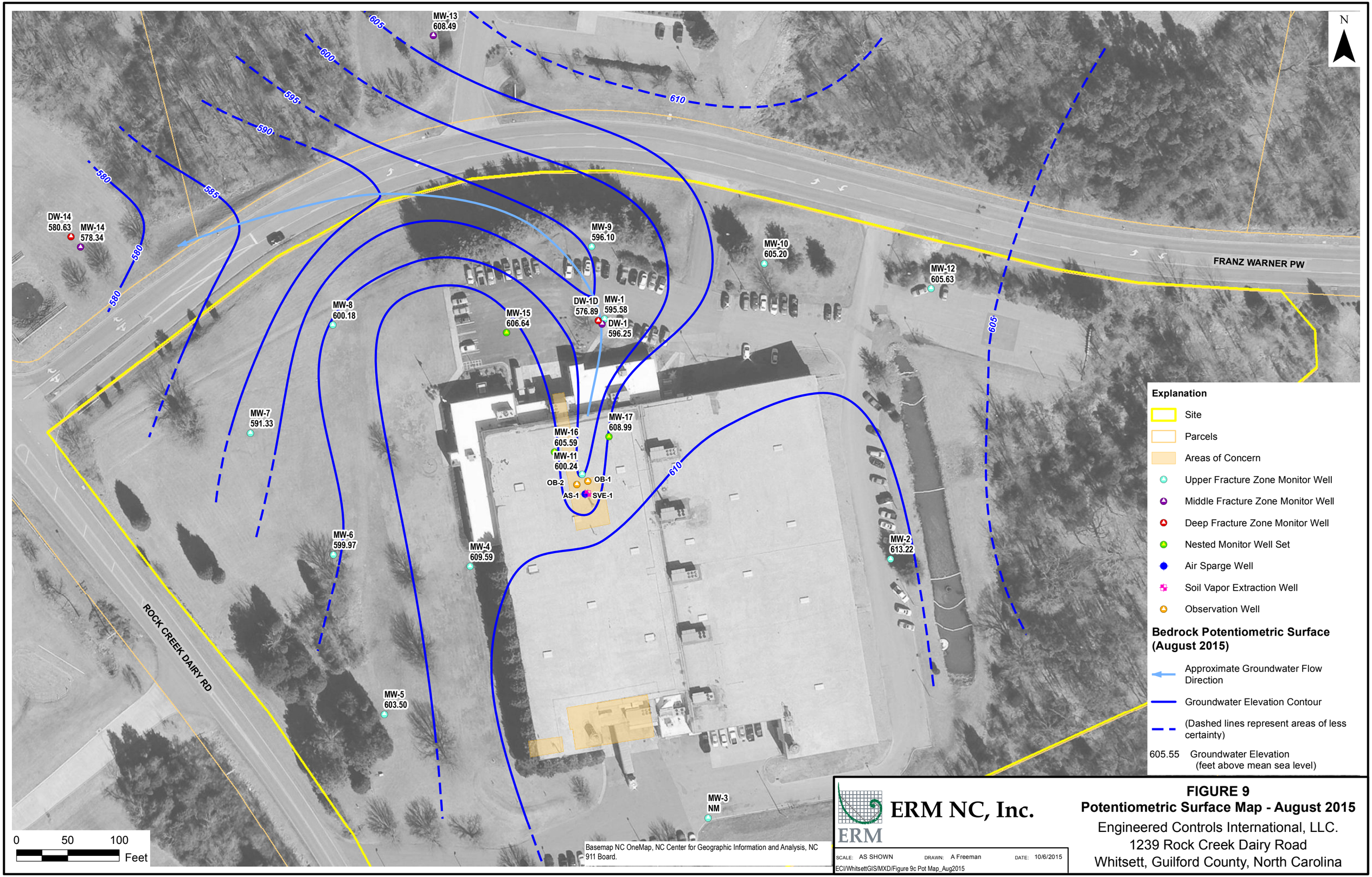


ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 10/6/2015

ECI/WhitsettGIS/MXD/Figure 8 GW Sample Locations

FIGURE 8
Groundwater Sample Locations Map
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

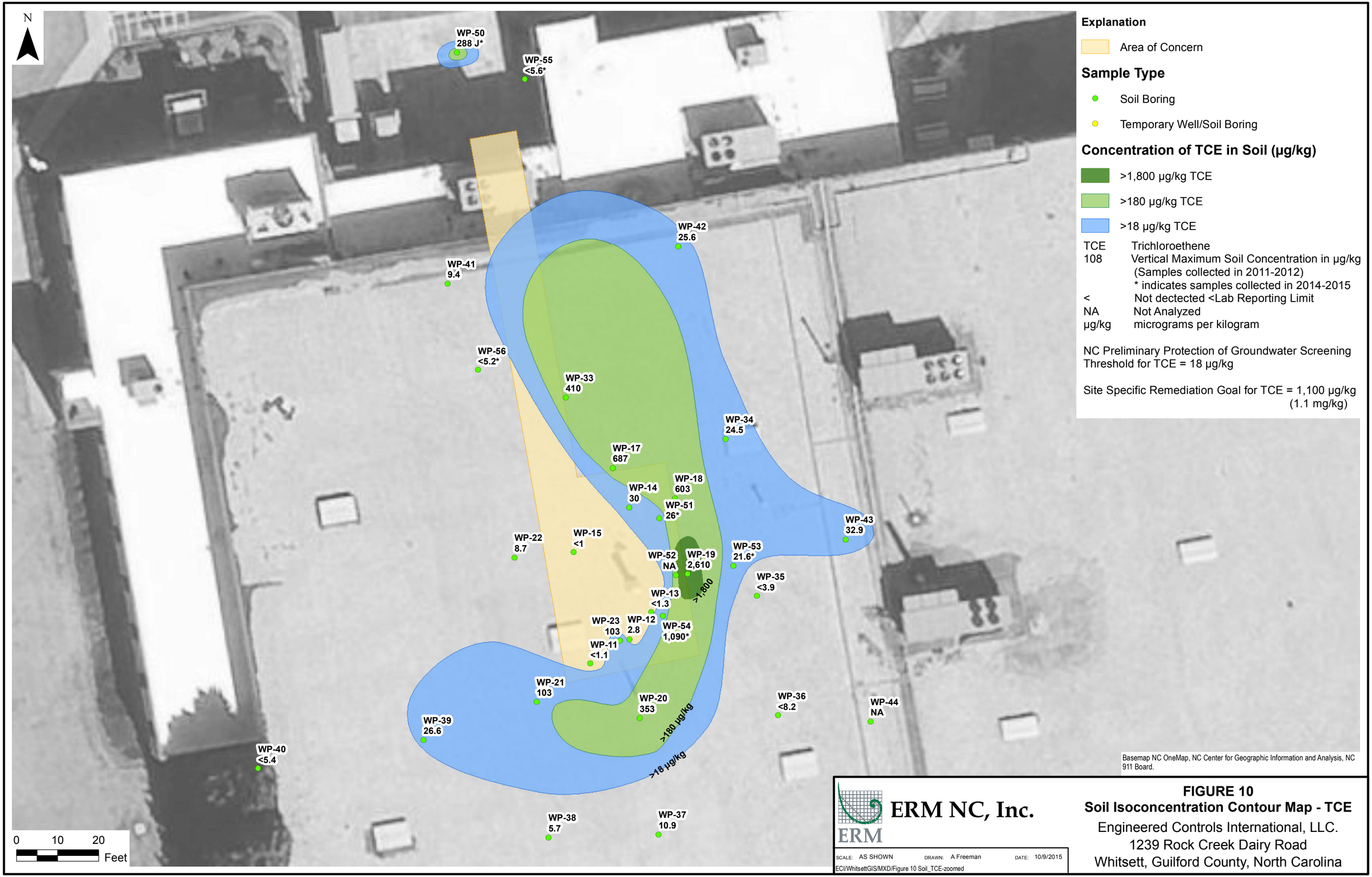


ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 10/6/2015

ECI/WhitsettGIS/MXD/Figure 9c Pot Map_Aug2015

FIGURE 9
Potentiometric Surface Map - August 2015
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

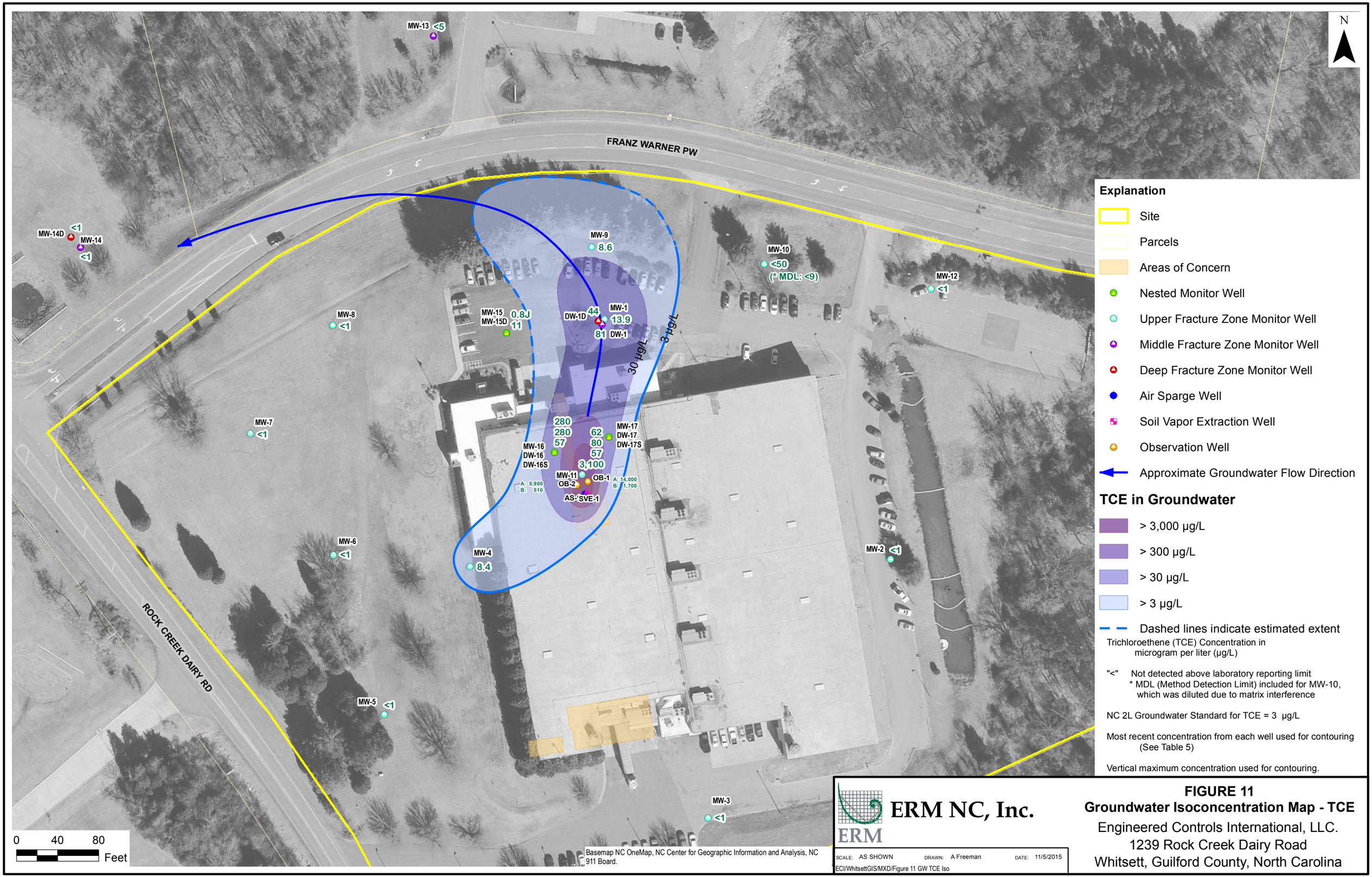


ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 10/9/2015

ECI/WhitsettGIS/MXD/Figure 10 Soil_TCE-zoomed

FIGURE 10
Soil Isoconcentration Contour Map - TCE
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

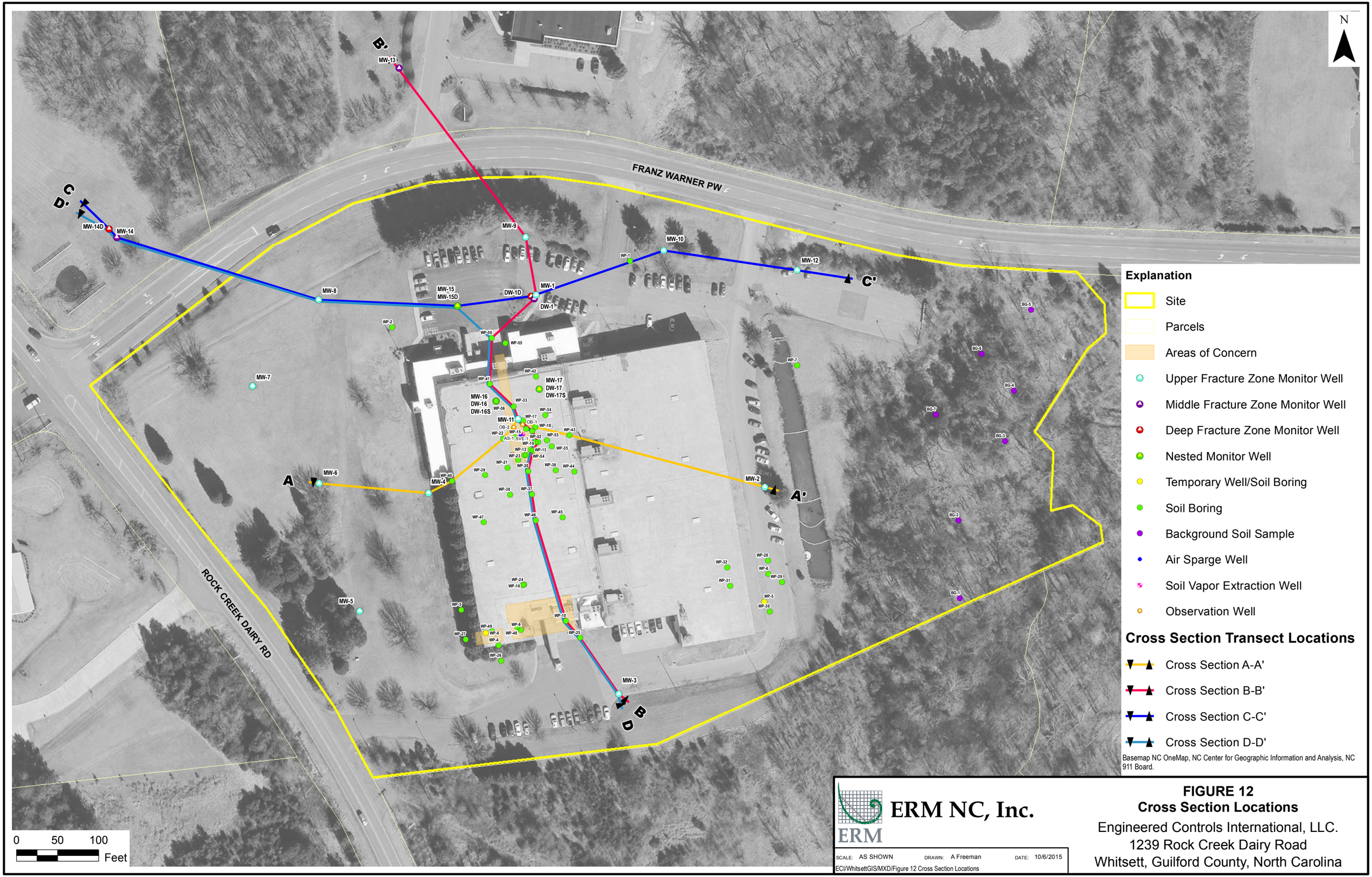


ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 11/5/2015

ECI/WhitsettGIS/MXD/Figure 11 GW TCE Iso

FIGURE 11
Groundwater Isoconcentration Map - TCE
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

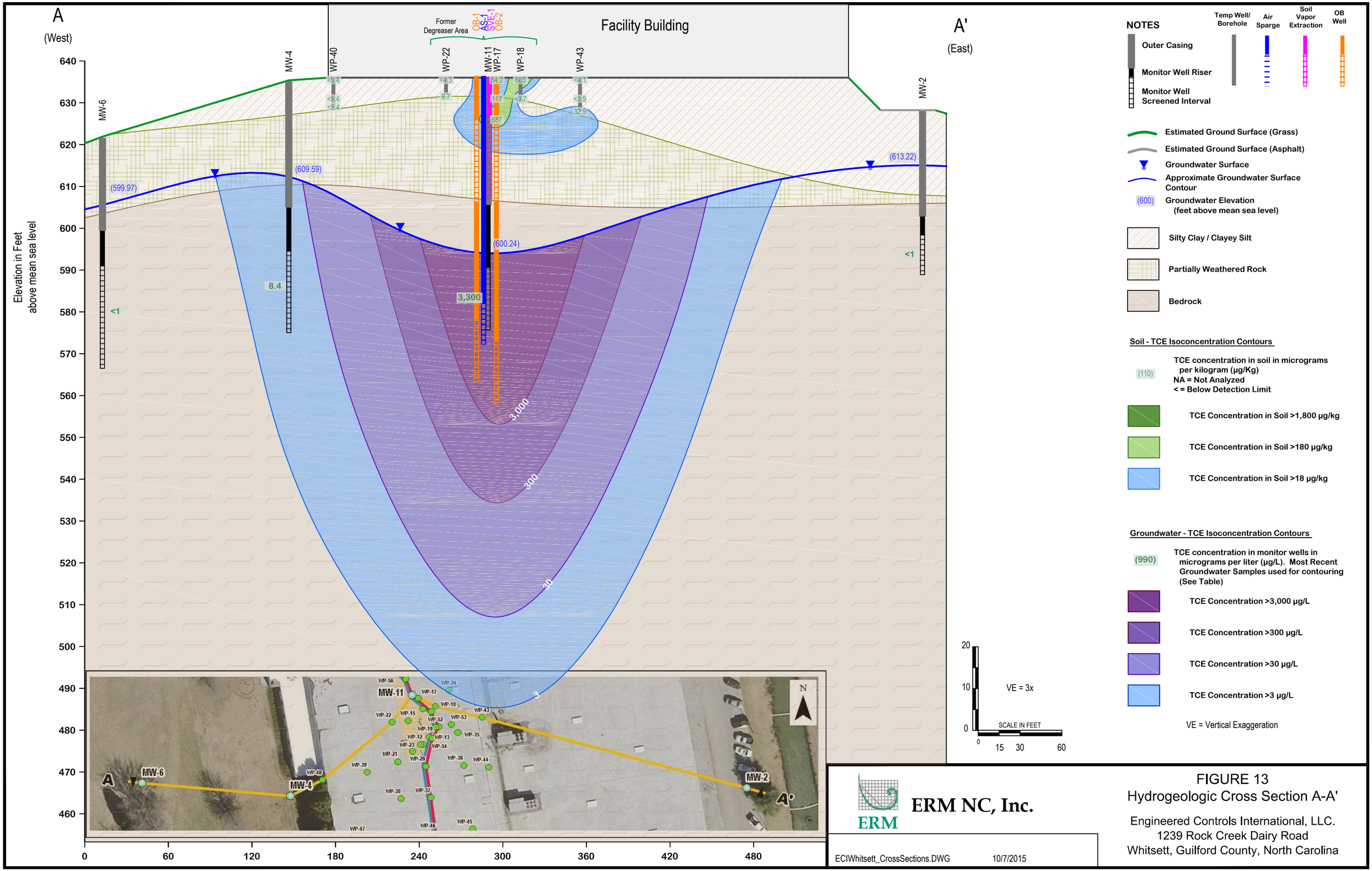


ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 10/6/2015

ECI/WhitsettGIS/MXD/Figure 12 Cross Section Locations

FIGURE 12
Cross Section Locations
Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

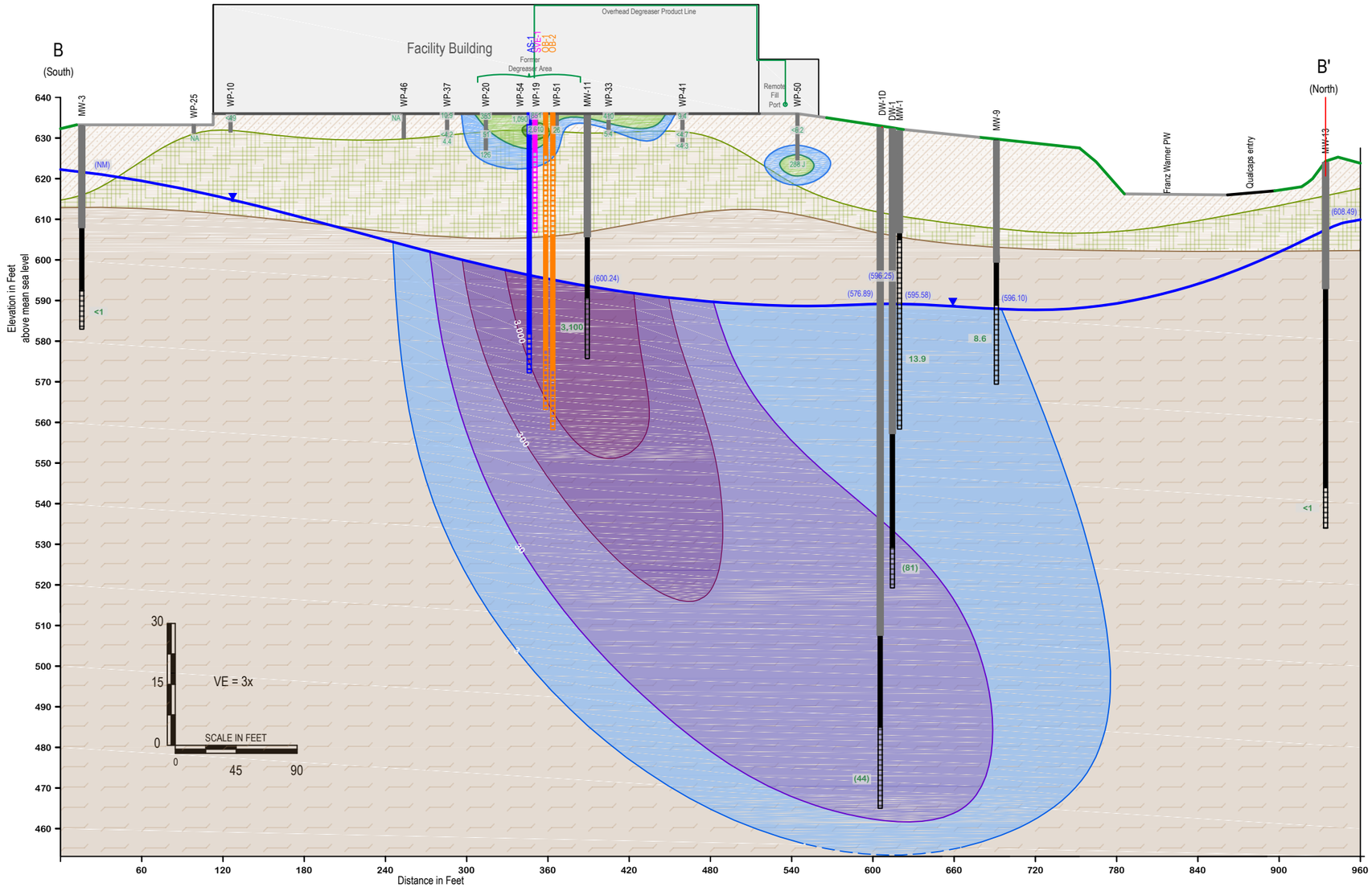


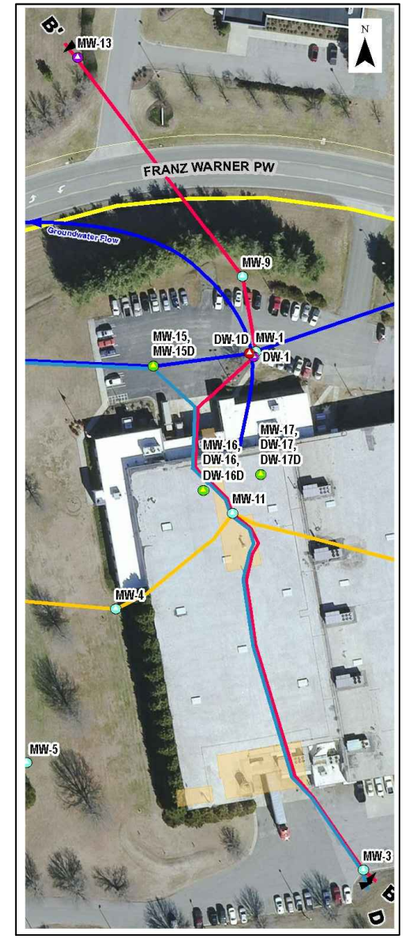
ERM NC, Inc.

ECIWhitsett_CrossSections.DWG 10/7/2015

FIGURE 13
Hydrogeologic Cross Section A-A'

Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina





Groundwater Surface

Approximate Groundwater Surface Contour

(600) Groundwater Elevation (feet above mean sea level)

Silty Clay / Clayey Silt

Partially Weathered Rock

Bedrock

NOTES

Temp Well/ Borehole | Air Sparge | Soil Vapor Extraction | OB Well

Outer Casing

Monitor Well Riser

Monitor Well Screened Interval

VE = Vertical Exaggeration

Estimated Ground Surface (Grass)

Estimated Ground Surface (Asphalt)

Soil - TCE Isoconcentration Contours

(110) TCE concentration in soil in micrograms per kilogram (µg/Kg)
NA = Not Analyzed
< = Below Detection Limit

TCE Concentration in Soil >1,800 µg/kg

TCE Concentration in Soil >180 µg/kg

TCE Concentration in Soil >18 µg/kg

Groundwater - TCE Isoconcentration Contours

(990) TCE concentration in monitor wells in micrograms per liter (µg/L). Most Recent Groundwater Samples used for contouring (See Table)

TCE Concentration >3,000 µg/L

TCE Concentration >300 µg/L

TCE Concentration >30 µg/L

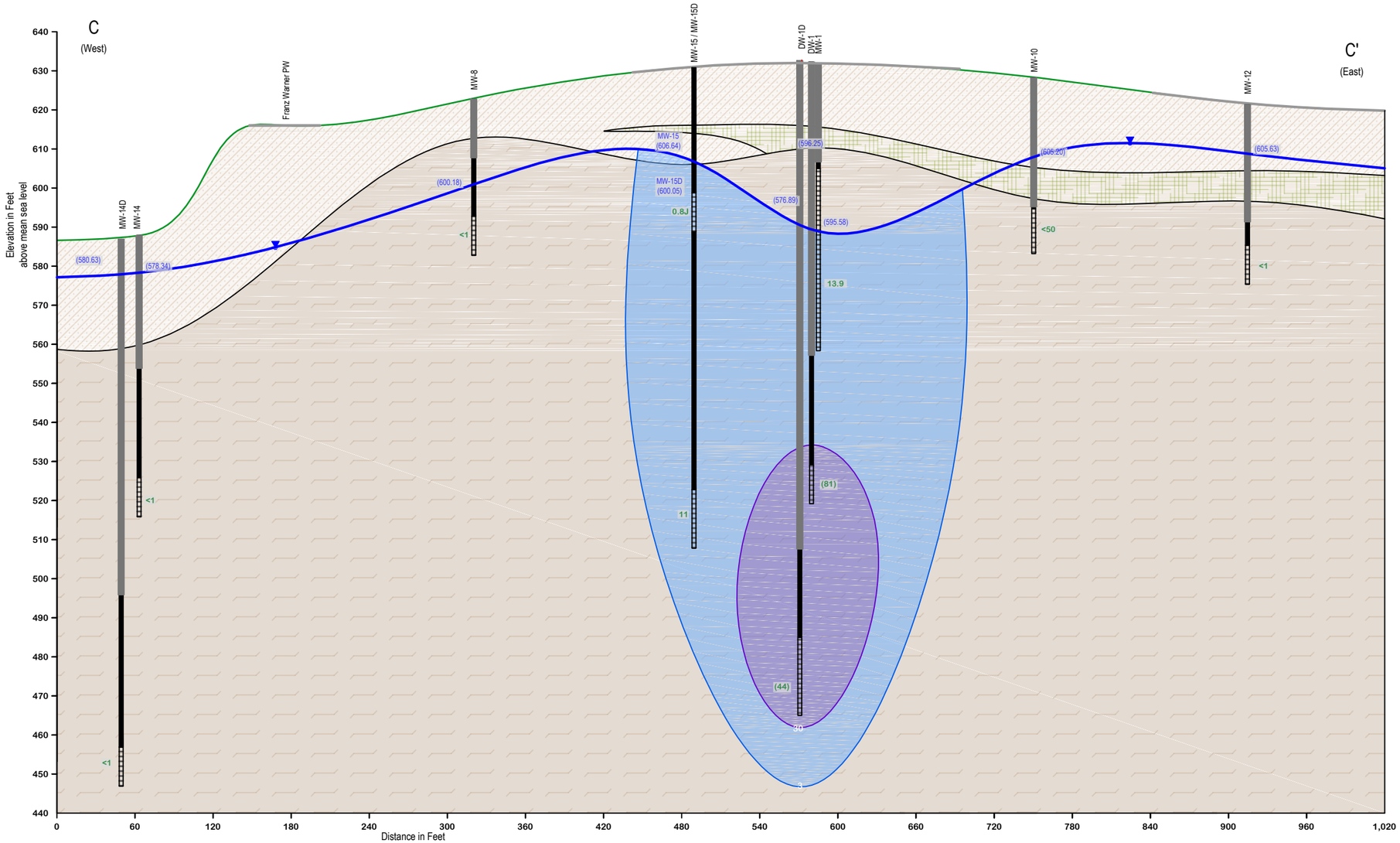
TCE Concentration >3 µg/L

ERM NC, Inc.

ECIWhitsett_CrossSections.DWG 10/7/2015

FIGURE 14
Hydrogeologic Cross Section B-B'

Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina



NOTES

Temp Well/ Borehole | Air Sparge | Soil Vapor Extraction | OB Well

Outer Casing

Monitor Well Riser

Monitor Well Screened Interval

Estimated Ground Surface (Grass)

Estimated Ground Surface (Asphalt)

VE = Vertical Exaggeration

Groundwater - TCE Isoconcentration Contours

(990) TCE concentration in monitor wells in micrograms per liter (µg/L). Most Recent Groundwater Samples used for contouring (See Table)

TCE Concentration >3,000 µg/L

TCE Concentration >300 µg/L

TCE Concentration >30 µg/L

TCE Concentration >3 µg/L

Groundwater Surface

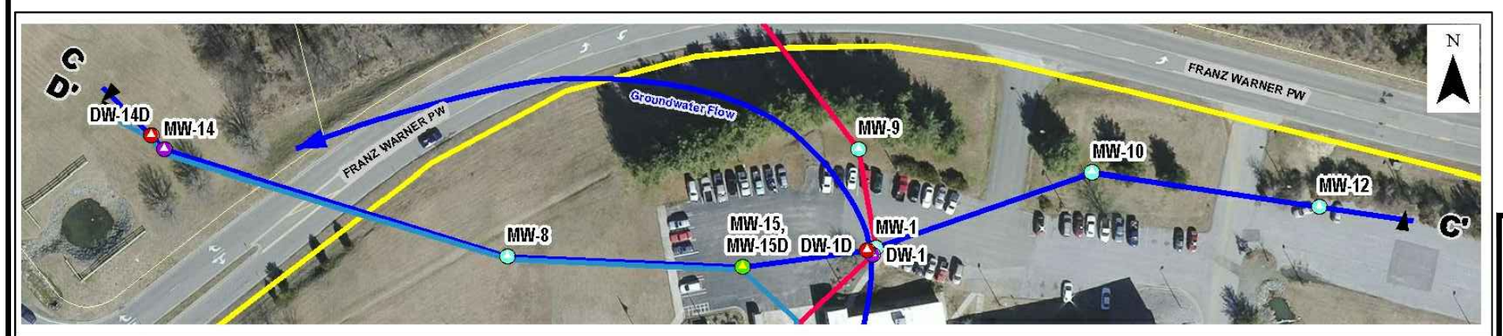
Approximate Groundwater Surface Contour

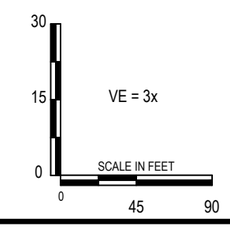
(600) Groundwater Elevation (feet above mean sea level)

Silty Clay / Clayey Silt

Partially Weathered Rock

Bedrock



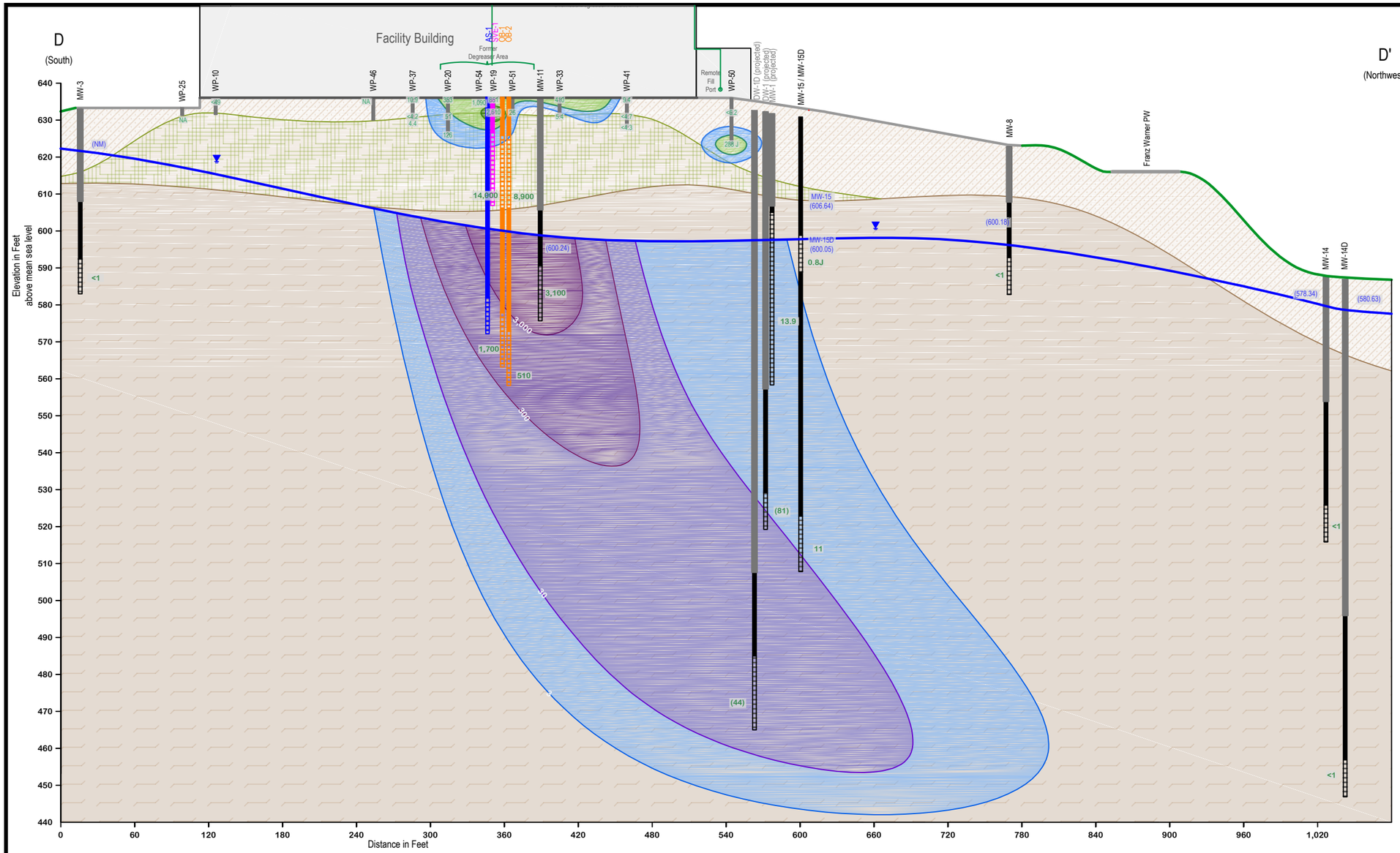


ERM NC, Inc.

FIGURE 15
Hydrogeologic Cross Section C-C'

Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

ECIWhitsett_CrossSections.DWG 10/7/2015



NOTES

Outer Casing

Monitor Well Riser

Monitor Well Screened Interval

Temp Well/ Borehole | Air Sparge | Soil Vapor Extraction | OB Well

Estimated Ground Surface (Grass)

Estimated Ground Surface (Asphalt)

VE = Vertical Exaggeration

Groundwater - TCE Isoconcentration Contours

(990) TCE concentration in monitor wells in micrograms per liter (µg/L). Most Recent Groundwater Samples used for contouring (See Table)

TCE Concentration >3,000 µg/L

TCE Concentration >300 µg/L

TCE Concentration >30 µg/L

TCE Concentration >3 µg/L

Groundwater Surface

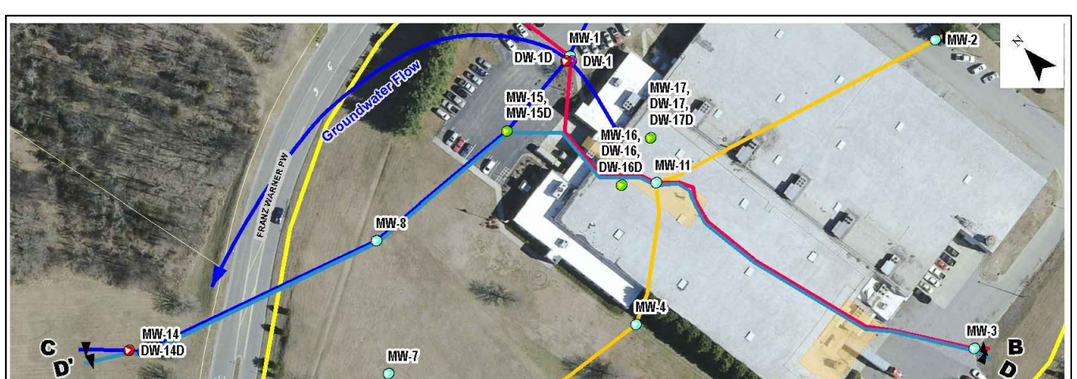
Approximate Groundwater Surface Contour

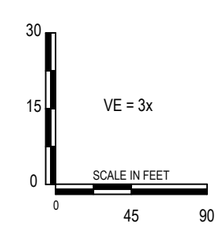
(600) Groundwater Elevation (feet above mean sea level)

Silty Clay / Clayey Silt

Partially Weathered Rock

Bedrock





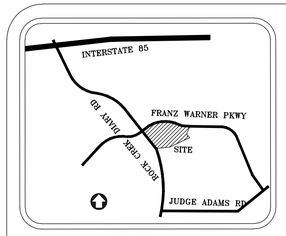
ERM NC, Inc.

ECIWhitsett_CrossSections.DWG 10/9/2015

FIGURE 16
Hydrogeologic Cross Section D-D'

Engineered Controls International, LLC.
1239 Rock Creek Dairy Road
Whitsett, Guilford County, North Carolina

APPENDIX A
SITE SURVEYS



VICINITY MAP
(NOT TO SCALE)

N
W E
S
REF: MB 100-97

ITEMS CORRESPONDING TO SCHEDULE B

FIDELITY NATIONAL TITLE INSURANCE COMPANY
TITLE COMMITMENT FILE/ORDER NO: 10G84382-SO EFFECTIVE DATE: AUGUST 11, 2010
NOTES CORRESPONDING TO SCHEDULE B

3. Declaration of covenants, conditions, restrictions, easements, charges, assessments and liens (but omitting any covenants or restrictions, if any, based upon race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law) recorded in Book 3551, Page 718, amended in Book 3711, Page 1312. Affects the subject property but contains no matters that can be specifically located.

4. Building restriction lines, easements, and any other matters shown on map or plat recorded in Plat Book 100, Pages 95 and 97. Affects the subject property as shown.

5. Easement (s) and/or right (s) of way in favor of Duke Power Company recorded in Book 3439, Pages 925 and 926; Book 3518, Page 1346; Book 3637, Page 1469. Deed 3439, Page 925 does not affect the subject property. Deed 3439, Page 926 affects the property and grants a 30' easement to Duke Power Company for a pole line located along the right-of-way of Rock Creek Dairy Road. No pole line currently exists in that location, so the easement cannot be specifically located. Deed 3518, Page 1346 affects the property and grants a general easement to Duke Power Company which cannot be specifically located. Deed 3637, Page 1469 affects the subject property and grants easements to Duke Power Company for overhead and underground power lines, the width of which are as follows: Along all roads: 55' for double pole lines, 30' for single pole lines and 15' for underground lines; Lines not parallel to streets: 75' for double poles, 50' for single poles and 25' for underground lines.

6. Intentionally Deleted

8. Utility easements (20' and 50'), as shown on survey by Wayne B. Perry dated May 18, 1989 attached to deed recorded in Book 3739, Page 1883. Easements were re-recorded on Plat Book 100, Page 97 and should no longer affect the subject property. Easement shown

7. Intentionally Deleted

9. Intentionally Deleted

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 MB 100-97
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 LIES WITHIN 2000' OF SUBJECT PROPERTY.
12. RECORD LEGALS OF SUBJECT PROPERTY MEET OR EXCEED MINIMUM STANDARDS OF PRACTICES FOR NORTH CAROLINA

LEGEND OF SYMBOLS & ABBREVIATIONS

TEXT:

BFP – BACK FLOW PREVENTOR
C&G – CURB & GUTTER
CB – CATCH BASIN
CMP – CORRUGATED METAL PIPE
CP – CALCULATED POINT
CO – CLEAN OUT
DB – DEED BOOK
DI – DROP INLET
EIP – EXISTING IRON PIPE
EIR – EXISTING IRON ROD
EN – EXISTING NAIL
EOP – EDGE OF PAVEMENT
FC – FIRE CONNECTION
FH – FIRE HYDRANT
FV – FIRE VALVE
GM – GAS METER
LPST – LAMP POST
LP – LIGHT POLE
(M) – MEASURED
MB – MAP BOOK
NCGS – NORTH CAROLINA GEODETIC SURVEY
NIR – NEW IRON ROD
PBX – POWER BOX
PM – POWER METER
POB – POINT OF BEGINNING
PG – PAGE
(R) – RECORDED
R/W – RIGHT-OF-WAY
RCP – REINFORCED CONCRETE PIPE
SSMH – SANITARY SEWER MANHOLE
SQ.FT. – SQUARE FEET
TBX – TELEPHONE BOX
WBX – WATER BOX
WM – WATER METER
WV – WATER VALVE

LINE:

PROPERTY LINE
PROPERTY LINE (NOT SURVEYED)
RIGHT-OF-WAY
RIGHT-OF-WAY (NOT SURVEYED)
EASEMENT
SETBACK
SANITARY SEWER PIPE — SS —
STORM DRAIN PIPE — SD —

ZONING INFORMATION

STATUS	ZONED -LI (LIGHT INDUSTRIAL)		STATUS
ITEM	REQUIRED	OBSERVED	CONTACT INFO:
PERMITTED USE	INDUSTRIAL	INDUSTRIAL	***GUILFORDS COUNTY ZONING 400 W. MARKET ST. GREENSBORO, NC 27402 336-641-3334***
MIN. LOT AREA	20000 SQ.FT.	601492 SQ.FT.	
MIN. DEPTH	NA	900'	
MIN. LOT WIDTH	100'	603'	
MAX. BLDG COVERAGE	60%	114552 SQ.FT.	
MIN. SETBACKS FRONT	25'	SEE SURVEY	NOTES:
MIN. SETBACKS SIDE	5'	SEE SURVEY	***PARKING REQUIREMENTS 2 SPACES PER 3 EMPLOYEES ON LARGEST SHIFT + 1 SPACE PER VEHICLE USED IN OPERATION***
MIN. SETBACKS REAR	5'	SEE SURVEY	
MAX. BUILDING HEIGHT	50'	23.5'	
PARKING REGULAR	SEE NOTE	155	
PARKING HANDICAP		4	
PARKING TOTAL		159	

STATEMENT OF ENCROACHMENTS

NO ENCROACHMENTS AT TIME OF SURVEY

TITLE LEGAL DESCRIPTION

LYING AND BEING in Rock Creek Township, Guilford County, State of North Carolina, and beginning at a nail in the center line of Rock Creek Dairy Road, said nail being located North 17°20' West 575.20 feet from the point of intersection of the center line of Rock Creek Dairy Road with the center line of the Duke Power Company high tension power line right of way described in Book 913 at pages 515, 516 and 518 in the Office of the Register of Deeds of Guilford County, North Carolina, said center line of the power line easement is evidenced by the existing steel tower and power lines located within the perimeters of said power line line easement; and running thence from said beginning nail along the center line of Rock Creek Dairy Road the four (4) following courses and distances: North 30° 07' 08" West 81.91 feet; North 33° 19' 14" West 100.01 feet; North 36° 38' 21" West 100.02 feet; and North 38° 11' 09" West 284.30 feet to a nail; thence North 52°07'39" East 40.06 feet to an iron stake, said iron stake being the southeast intersection of Rock Creek Dairy Road and the proposed Franz Warner Parkway; thence along the southern right of way line of the proposed Franz Warner Parkway the six (6) following courses and distances: North 52° 07'39" East 135.85 feet; North 49°21' 06" East 82.60 feet; along a curve to the right, a chord course and distance of North 78° 03' 10" East 476.54 feet; South 76° 01' 20" East 280.57 feet; along a curve to the left, a chord course and distance of South 81° 55' 20" East 244.90 feet; and South 87° 49' 20" East 28.59 feet to an iron stake in the southern right of way line of the proposed Franz Warner Parkway; thence along the center line of an existing creek, as it meanders in a southerly direction, the eleven (11) following courses and distances: South 39° 44' 38" East 37.25 feet; South 11° 44' 05" East 38.61 feet; South 55°10' 55" West 36.36 feet; South 24° 47' 17" West 120.55 feet; South 43° 01' 18" East 34.41 feet; South 11° 12' 52"West 67.29 feet; South 48° 06' 51" East 16.10 feet; North 46°22' 01" East 17.79 feet; South 72° 03' 44" East 24.41 feet; South 46° 01' 32" East 28.90 feet; and South 30° 47' 01" West 18.93 feet to an existing iron stake, said iron stake being a control corner; thence South 64° 46' 22" West 572.24 feet to an existing iron stake, a control corner; thence South 83° 50' 20" West 341.25 feet to an iron stake in the eastern right of way line of Rock Creek Dairy Road; thence South 83° 50' 20" West 43.75 feet to the point and place of beginning, same containing 14.343 acres, more or less, of which 0.530 acres, more or less, are located within the right of way for Rock Creek Dairy Road. The hereinabove described premises were surveyed and platted by Alley, Williams, Carmen & King, Inc. on the 14th day of February, 1990, same being further known and designated as Lot No. 1 of Engineered Controls International, Inc. and being the major portion of Lot No. 49 of Rock Creek Center, in addition to an area containing approximately 1.715 acres, more or less, all as shown upon the plat herein referenced.

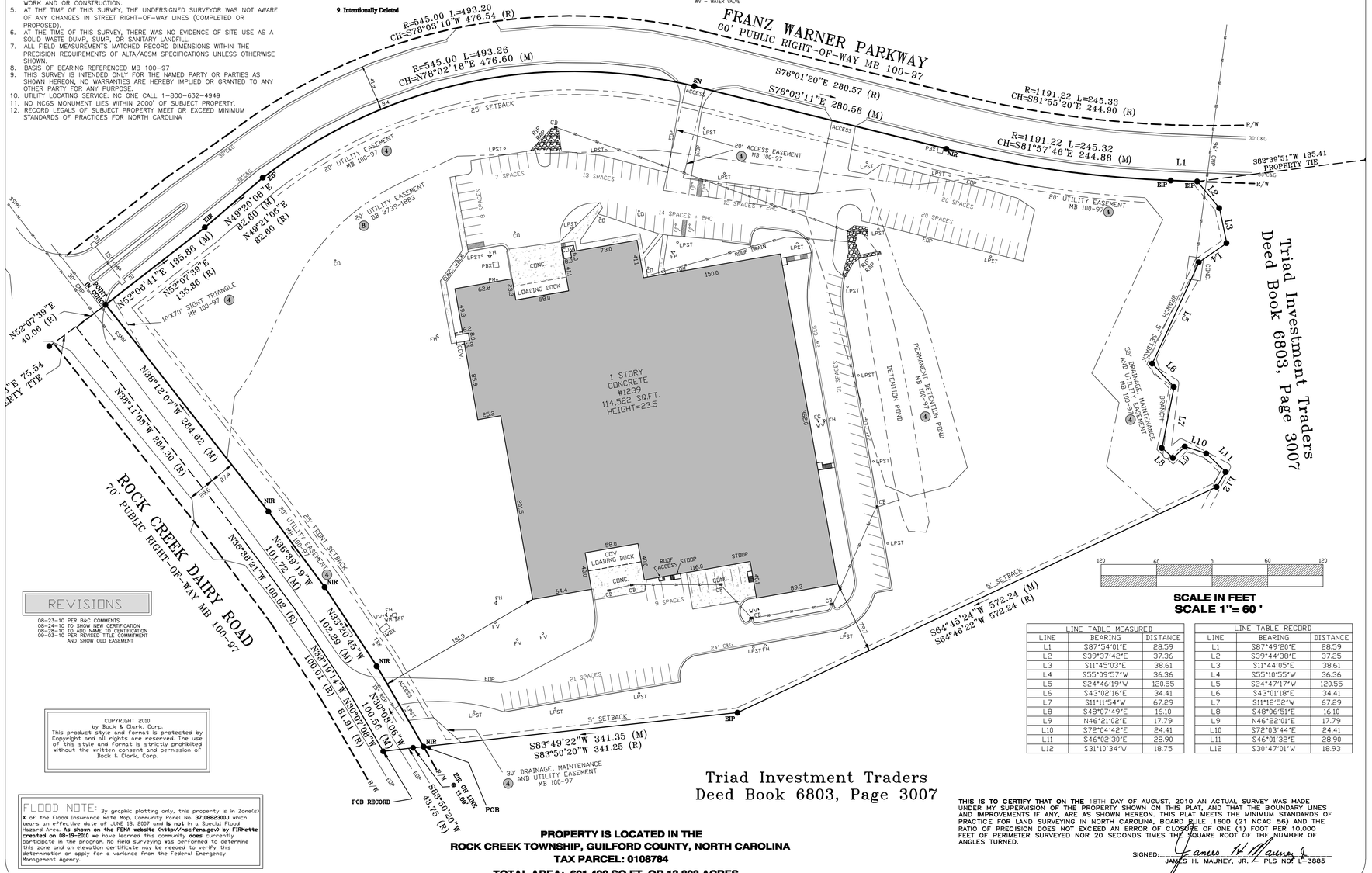
AS-SURVEYED LEGAL DESCRIPTION

13.808 ACRES
1239 ROCK CREEK DAIRY ROAD
WHITSETT, NC

That certain tract or parcel of land situated, lying and being in Rock Creek Township, Guilford County, North Carolina and being more particularly described as follows:

BEGINNING at an new iron rod on the easterly margin of Rock Creek Dairy Road (70' public right-of-way, said iron being a northwest corner of Triad Investment Traders property as described in Deed Book 6803, Page 3007 of the Guilford County Public Registry; and runs thence with the easterly margin of Rock Creek Dairy Road the following four (4) courses and distances: (1) North 30°08'06" West, a distance of 100.56 feet to a new iron rod; (2) North 33°20'45" West, a distance of 102.29 feet to a new iron rod; (3) North 36°39'19" West, a distance of 101.72 feet to a new iron rod; (4) North 38°12'07" West, a distance of 284.62 feet to a point in concrete at the intersection of the southerly margin of Franz Warner Parkway (60' public right-of-way); thence with the southerly margin of Franz Warner Parkway the following six (6) courses and distances: (1) North 52°06'41" East, a distance of 135.86 feet to a existing iron rod; (2) North 49°20'08" East, a distance of 82.60 feet to a existing iron pipe; (3) with the arc of a circular curve to the right having a radius of 545.00 feet, an arc length of 493.26 feet, (chord: North 78°02'18" East 476.60 feet) to an existing nail; (4) South 76°03'11" East, a distance of 280.58 feet to a new iron rod; (5) with the arc of a circular curve to the left having a radius of 1,191.22 feet, an arc length of 245.32 feet, (chord: South 81°57'46" East 244.88 feet) to a existing iron pipe; (6) South 87°54'01" East, a distance of 28.59 feet to a existing iron pipe a northeast corner of Triad Investment Traders property as described in Deed Book 6803, Page 3007 of said Registry; thence with the line of Triad Investment Traders property the following thirteen (13) courses and distances: (1) South 39°37'42" East, a distance of 37.36 feet to a point; (2) South 11°45'03" East, a distance of 38.61 feet to a point; (3) South 55°09'57" West, a distance of 36.36 feet to a point; (4) South 24°46'19" West, a distance of 120.55 feet to a point; (5) South 43°02'16" East, a distance of 34.41 feet to a point; (6) South 11°11'54" West, a distance of 67.29 feet to a point; (7) South 48°07'49" East, a distance of 16.10 feet to a point; (8) North 46°21'02" East, a distance of 17.79 feet to a point; (9) South 72°04'42" East, a distance of 24.41 feet to a point; (10) South 46°02'30" East, a distance of 28.90 feet to a point; (11) South 31°10'34" West, a distance of 18.75 feet to a point; (12) South 64°45'24" West, a distance of 572.24 feet to a existing iron pipe;(13) South 83°49'22" West, a distance of 341.35 feet to a new iron rod the POINT OF BEGINNING. Containing 601,492 square feet or 13.808 acres, more or less as shown on a survey by James Mauney & Associates, P.A. dated August 18, 2010, bearing file No. F639.

Being the same property as described in Fidelity National Title Insurance Company Title Commitment 10G84382-SO, effective date August 11, 2010.



REVISIONS

08-23-10 PER B&C COMMENTS
08-24-10 TO SHOW NEW CERTIFICATION
08-26-10 TO ADD NAME TO CERTIFICATION
09-03-10 PER REVISED TITLE COMMITMENT AND SHOW OLD EASEMENT

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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. **3710882300J** 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 08-19-2010** 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.

PROPERTY IS LOCATED IN THE
ROCK CREEK TOWNSHIP, GUILFORD COUNTY, NORTH CAROLINA
TAX PARCEL: 0108784
TOTAL AREA: 601,492 SQ.FT. OR 13.808 ACRES

SCALE IN FEET
SCALE 1"= 60 '

LINE TABLE MEASURED		
LINE	BEARING	DISTANCE
L1	S87°54'01"E	28.59
L2	S39°37'42"E	37.36
L3	S11°45'03"E	38.61
L4	S55°09'57"W	36.36
L5	S24°46'19"W	120.55
L6	S43°02'16"E	34.41
L7	S11°11'54"W	67.29
L8	S48°07'49"E	16.10
L9	N46°21'02"E	17.79
L10	S72°04'42"E	24.41
L11	S46°02'30"E	28.90
L12	S31°10'34"W	18.75

LINE TABLE RECORD		
LINE	BEARING	DISTANCE
L1	S87°49'20"E	28.59
L2	S39°44'38"E	37.25
L3	S11°44'05"E	38.61
L4	S55°10'55"W	36.36
L5	S24°47'17"W	120.55
L6	S43°01'18"E	34.41
L7	S11°12'52"W	67.29
L8	S48°06'51"E	16.10
L9	N46°22'01"E	17.79
L10	S72°03'44"E	24.41
L11	S46°01'32"E	28.90
L12	S30°47'01"W	18.93

THIS IS TO CERTIFY THAT ON THE 18TH 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

ALTA/ACSM LAND TITLE SURVEY

Sentinel Project
B&C Project No. 201001166, 004
Whitsett
Rock Creek Center - 12.58 acres, Rock Creek Township, 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. 10G84382-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 Rock Creek Diary Road and Franz Warner Parkway, 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. 10G84382-SO, dated August 11, 2010 have been correctly platted 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 # 3710882300J, 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 3 , 2010
Network Project No. 201001166-004

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@jamesmauney.com
License No. C-2373

JOHN H. CAROLI, JR. PROFESSIONAL SEAL L-3885 LAND SURVEYOR JAMES H. MAUNEY, JR.

Page 1 of 1

Job No: 4594, File No: F639

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

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www.taylorwiseman.com

Engineered Controls International, Inc.

1239 Rock Creek Dairy Road, Whitsett, NC

Geological Feature Survey

TWT Project #: 03794.6005.00
Date of Survey: April 22, 2014

CONTROL POINTS			
Control	*Northing*	*Easting*	*Elevation*
Nail 1	839039.83	1822794.60	629.81
PK-Nail 2	838802.58	1822184.58	594.11

GEOLOGICAL FEATURES				
Survey Point ID	*Northing*	*Easting*	*Top of Case Elevation*	*Ground Elevation*
MW-1	839039.66	1823013.61	631.72	632.28
MW-2	838806.07	1823291.88	627.91	628.30
MW-3	838554.15	1823114.31	632.97	633.28
MW-4	838798.69	1822882.65	635.03	635.38
MW-5	838654.92	1822798.99	624.59	624.78
MW-6	838810.52	1822749.50	621.49	621.90
MW-7	838928.61	1822668.69	616.33	616.60
MW-8	839033.84	1822748.87	622.71	623.01
MW-9	839109.97	1823001.00	629.39	629.75
MW-10	839093.57	1823168.95	628.19	628.42
WP-5	838666.45	1823291.08		630.20
WP-6	838700.03	1823296.31		629.71
WP-8	838628.36	1822952.30		631.96
WP-9	838639.39	1822993.94		632.02
WP-10	838642.93	1823049.75		631.82
WP-11	838838.73	1822992.05		635.97
WP-12	838844.68	1823001.63		635.97
WP-13	838851.30	1823006.90		635.96
WP-14	838876.75	1823001.52		635.99
WP-15	838865.87	1822988.01		635.98
WP-16	838687.19	1822998.76		635.99
WP-17	838886.37	1822997.56		635.95
WP-18	838878.94	1823012.70		635.99
WP-19	838860.53	1823015.75		635.94
WP-20	838825.48	1823004.04		635.95
WP-21	838829.44	1822979.02		635.96
WP-22	838864.56	1822973.61		635.96
WP-23	838844.38	1822999.28		635.98
WP-24	838686.74	1822997.71		635.99
WP-25	838622.18	1823067.31		632.01
WP-28	838716.02	1823295.98		629.57
WP-29	838689.99	1823312.99		629.10
WP-30	838654.24	1823297.86		630.14

Survey Control Metadata:

Horizontal Datum: NAD83 (2011)
Epoch: 2010.00
Vertical Datum: NAVD88 (Geoid 2012)
Units: U.S. Survey Feet
GPS Technique: Network RTK (VRS)
Date of GPS Survey: April 23, 2014
GPS Ant. Type: Trimble R8-3
GPS Ant. SN: 5005414918
Fixed Station: NCBU / PID: DF9213
WGS-84 Lat: 36°05'29.58604"N
WGS-84 Lon: 79°26'12.17619"W
Ellipsoid Height: 568.898
Geoid Height: -99.18
Project Combined Factor: 0.999945161
Calculated at Point 1
Class of Survey: "A" - Urban Land Survey
Adjustment: TGO Least Squares at 95% C.L.
Positional Accuracy: 0.07'

VRS GPS was used to establish the control line (points 1 and 2). All other locations were obtained via conventional surveying methodologies using a Trimble S6 Robotic Total Station.

GEOLOGICAL FEATURES				
Survey Point ID	*Northing*	*Easting*	*Top of Case Elevation*	*Ground Elevation*
WP-31	838685.64	1823249.97		636.01
WP-32	838708.02	1823246.24		636.00
WP-33	838903.49	1822986.09		635.96
WP-34	838893.37	1823025.02		635.97
WP-35	838855.28	1823032.63		635.92
WP-36	838826.22	1823037.73		635.95
WP-37	838797.14	1823008.70		635.94
WP-38	838796.42	1822981.86		635.95
WP-41	838931.17	1822957.32		635.96
WP-42	838940.27	1823013.44		635.93
WP-43	838868.93	1823054.20		635.97
WP-45	838769.11	1823045.97		635.95
WP-46	838765.48	1823013.11		635.94
WP-47	838762.84	1822950.02		635.94
WP-X	838663.95	1823291.30		630.20

BUILDING POINTS				
Survey Point #	*Northing*	*Easting*	*Ground Elevation*	Descriptor
111	838816.42	1822885.53	635.3	bldg
117	838958.21	1822861.12	635.6	bldg
124	838968.69	1822922.51	633.1	bldg
125	838993.82	1822977.10	631.6	bldg
126	838996.05	1822990.32	635.3	bldg
127	839001.58	1823059.20	635.5	bldg-cor
129	838613.38	1822945.93	651.0	bldg-cor
133	838614.28	1823187.18	631.6	bldg
134	838629.46	1823275.20	634.3	bldg
135	838634.03	1823065.97	631.8	bldg-cor
138	838624.34	1823009.25	631.8	bldg-cor
149	838986.45	1823213.76	634.9	bldg

bldg = building
cor = corner

Survey Certification:
I, Chad T. Howard, certify that this report was prepared under my supervision, from an actual ground (conventional) and GPS survey made under my supervision;
that the positional accuracy has been reported hereon;
that the geological features surveyed and identified hereon were surveyed in a manner sufficient to comply with national map accuracy standards and the requirements of the Standards of Practice for Land Surveying in North Carolina (21 NCAC 56.1600).

Witness my original signature, registration number and seal this 29th day of April, in the year of our Lord 2014.

4/29/2014

NORTH CAROLINA PROFESSIONAL SEAL L-4220 LAND SURVEYOR CHAD T. HOWARD

Taylor Wiseman & Taylor
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919-297-0085 phone 919-297-0090 fax
www.taylorwiseman.com

Engineered Controls International, Inc.

1239 Rock Creek Dairy Road, Whitsett, NC

Geological Feature Survey

TWT Project #: 03794.6005.02
Date of Survey: June 6, 2014

CONTROL POINTS			
Control	*Northing*	*Easting*	*Elevation*
Nail 1	839039.83	1822794.60	629.81
PK-Nail 2	838802.58	1822184.58	594.11

GEOLOGICAL FEATURES				
Survey Point ID	*Northing*	*Easting*	*Top of Case Elevation*	*Ground Elevation*
DW-1	839034.97	1823011.07	632.24	632.55
MW-11	838888.82	1822991.61	635.69	635.92
MW-12	839068.75	1823329.76	621.35	621.63
BG-1	838670.38	1823529.29		594.88
BG-2	838764.95	1823527.41		593.30
BG-3	838861.61	1823584.15		588.16
BG-4	838922.88	1823595.05		586.09
BG-5	839021.51	1823615.78		592.37
BG-6	838967.88	1823555.49		597.05
BG-7	838894.13	1823499.86		605.98
GP-48	838635.16	1822990.59		631.96
GP-49	838630.16	1822960.02		631.99
GP-50	838987.42	1822959.62		631.51
GP-51	838874.11	1823008.84		635.95
GP-52	838860.28	1823012.94		635.93
GP-53	838862.58	1823026.87		635.94
GP-54	838850.33	1823009.73		635.93
GP-55	838981.02	1822976.11		631.63

Survey Control Metadata:

Horizontal Datum: NAD83 (2011)
Epoch: 2010.00
Vertical Datum: NAVD88 (Geoid 2012)
Units: U.S. Survey Feet
GPS Technique: Network RTK (VRS)
Date of GPS Survey: April 23, 2014
GPS Ant. Type: Trimble R8-3
GPS Ant. SN: 5005414918
Fixed Station: NCBU / PID: DF9213
WGS-84 Lat: 36°05'29.58604"N
WGS-84 Lon: 79°26'12.17619"W
Ellipsoid Height: 568.898
Geoid Height: -99.18
Project Combined Factor: 0.999945161
Calculated at Point 1
Class of Survey: "A" - Urban Land Survey
Adjustment: TGO Least Squares at 95% C.L.
Positional Accuracy: 0.07'

VRS GPS was used to establish the control line (points 1 and 2). All other locations were obtained via conventional surveying methodologies using a Trimble S6 Robotic Total Station.

Survey Certification:

I, Chad T. Howard, certify that this report was prepared under my supervision, from an actual ground (conventional) and GPS survey made under my supervision;
that the positional accuracy has been reported hereon;
that the geological features surveyed and identified hereon were surveyed in a manner sufficient to comply with national map accuracy standards and the requirements of the Standards of Practice for Land Surveying in North Carolina (21 NCAC 56.1600).

Witness my original signature, registration number and seal this 11th day of June, in the year of our Lord 2014.

6-11-2014

NORTH CAROLINA PROFESSIONAL SEAL L-4220 LAND SURVEYOR CHAD T. HOWARD

Taylor Wiseman & Taylor
ENGINEERS I SURVEYORS I SCIENTISTS
3500 Regency Parkway, Suite 260, Cary, NC 27518
919-297-0085 phone 919-297-0090 fax
www.taylorwiseman.com

Engineered Controls International, Inc.

1239 Rock Creek Dairy Road, Whitsett, NC

Geological Feature Survey

TWT Project #: 03794.6005.03
Date of Survey: November 3, 2014

CONTROL POINTS			
Control	*Northing*	*Easting*	*Elevation*
Nail 1	839039.83	1822794.60	629.81
PK-Nail 2	838802.58	1822184.58	594.11

GEOLOGICAL FEATURES				
Survey Point ID	*Northing*	*Easting*	*Top of Case Elevation*	*Ground Elevation*
DW-1D	839037.94	1823007.46	631.73	631.95
MW-13	839315.58	1822846.83	623.94	624.30

Survey Control Metadata:
Epoch: 2010.00
Vertical Datum: NAVD88 (Geoid 2012)
Units: U.S. Survey Feet
GPS Technique: Network RTK (VRS)
Date of GPS Survey: April 23, 2014
GPS Ant. Type: Trimble R8-3
GPS Ant. SN: 5005414918
Fixed Station: NCBU / PID: DF9213
WGS-84 Lat: 36°05'29.58604"N
WGS-84 Lon: 79°26'12.17619"W
Ellipsoid Height: 568.898
Geoid Height: -99.18
Project Combined Factor: 0.999945161
Calculated at Point 1
Class of Survey: "A" - Urban Land Survey
Adjustment: TGO Least Squares at 95% C.L.
Positional Accuracy: 0.07'

VRS GPS was used to establish the control line (points 1 and 2). All other locations were obtained via conventional surveying methodologies using a Trimble S6 Robotic Total Station.

Survey Certification:
I, Chad T. Howard, certify that this report was prepared under my supervision, from an actual ground (conventional) and GPS survey made under my supervision;
that the positional accuracy has been reported hereon;
that the geological features surveyed and identified hereon were surveyed in a manner sufficient to comply with national map accuracy standards and the requirements of the Standards of Practice for Land Surveying in North Carolina (21 NCAC 56.1600).

Witness my original signature, registration number and seal this 4th day of November, in the year of our Lord 2014.

11/4/14
NORTH CAROLINA PROFESSIONAL SEAL L-4220 LAND SURVEYOR CHAD T. HOWARD

Taylor Wiseman & Taylor
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919-297-0085 phone 919-297-0090 fax
www.taylorwiseman.com

Engineered Controls International, Inc.

1239 Rock Creek Dairy Road, Whitsett, NC

Geological Feature Survey

TWT Project #: 03794.6005.06

Date of Survey: July 31, 2015

CONTROL POINTS			
Control	*Northing*	*Easting*	*Elevation*
Nail 1	839039.83	1822794.60	629.81
PK-Nail 2	838802.58	1822184.58	594.11

GEOLOGICAL FEATURES				
Survey Point ID	*Northing*	*Easting*	*Top of Case Elevation*	*Ground Elevation*
MW-14	839,109.69	1,822,503.39	587.85	588.07
MW-14D	839,119.86	1,822,494.01	587.21	587.44
MW-15	839,026.18	1,822,918.01	630.82	631.06
MW-15D	839,026.18	1,822,918.01	630.85	631.06
MW-16	838,910.23	1,822,964.76	635.72	635.94
DW-16D	838,910.23	1,822,964.76	635.71	635.94
DW-16	838,910.23	1,822,964.76	635.72	635.94
MW-17	838,924.97	1,823,017.68	635.69	635.93
DW-17	838,924.97	1,823,017.68	635.70	635.93
DW-17D	838,924.97	1,823,017.68	635.70	635.93

Units: U.S. Survey Feet
GPS Technique: Network RTK (VRS)
Date of GPS Survey: April 23, 2014
GPS Ant. Type: Trimble R8-3
GPS Ant. SN: 5005414918
Fixed Station: NCBU / PID: DF9213
WGS-84 Lat: 36°05'29.58604"N
WGS-84 Lon: 79°26'12.17619"W
Ellipsoid Height: 568.898
Geoid Height: -99.18
Project Combined Factor: 0.999945161
Calculated at Point 1
Class of Survey: "A" - Urban Land Survey
Adjustment: TGO Least Squares at 95% C.L.
Positional Accuracy: 0.07'

VRS GPS was used to establish the control line (points 1 and 2). All other locations were obtained via conventional surveying methodologies using a Trimble S6 Robotic Total Station.

Taylor Wiseman & Taylor
ENGINEERS I SURVEYORS I SCIENTISTS
3500 Regency Parkway, Suite 260, Cary, NC 27518
919-297-0085 phone 919-297-0090 fax
www.taylorwiseman.com

Survey Certification:

I, Chad T. Howard, certify that this report was prepared under my supervision, from an actual ground (conventional) and GPS survey made under my supervision;
that the positional accuracy has been reported hereon;
that the geological features surveyed and identified hereon were surveyed in a manner sufficient to comply with national map accuracy standards and the requirements of the Standards of Practice for Land Surveying in North Carolina (21 NCAC 56.1600).

Witness my original signature, registration number and seal this 31st day of July, in the year of our Lord 2015.

7/31/2015

NORTH CAROLINA PROFESSIONAL SEAL L-4220 LAND SURVEYOR CHAD T. HOWARD

APPENDIX B
PHOTOGRAPH LOG

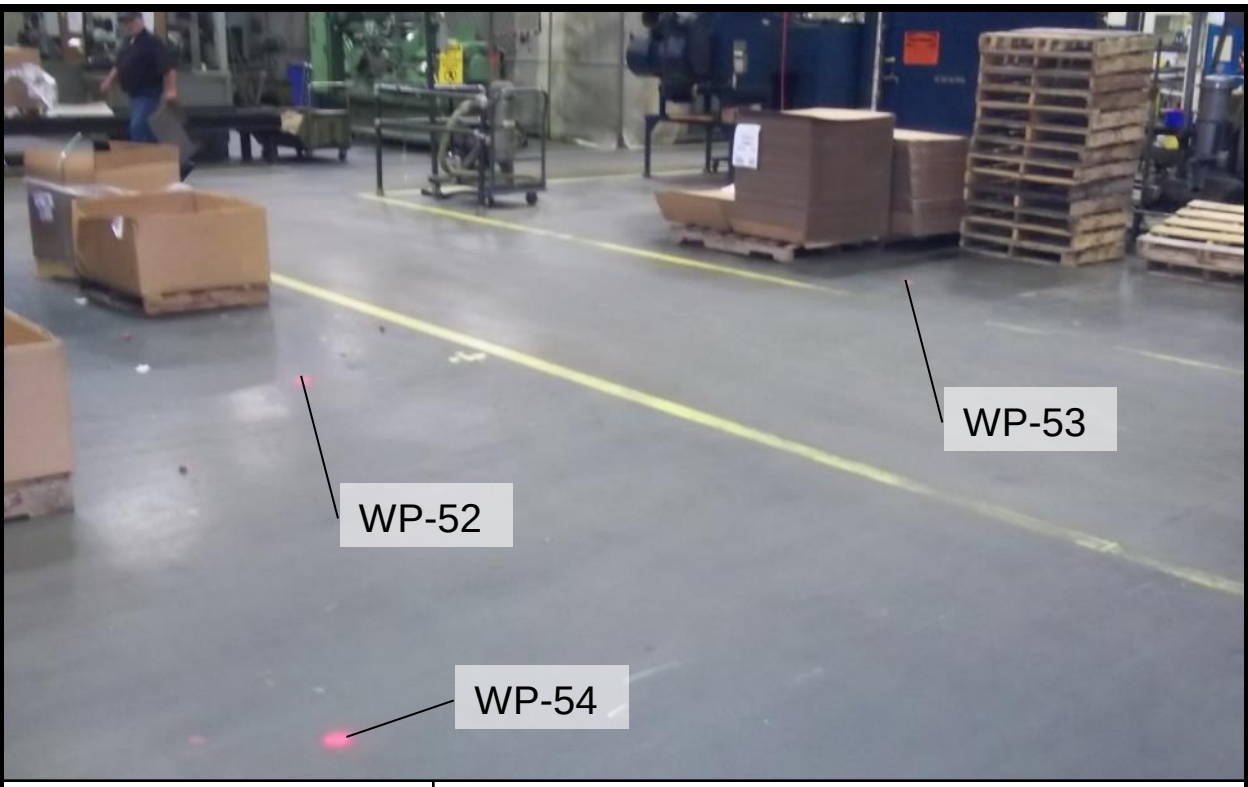
Photograph #1	***Description: View of northern exterior portion of AOC 1 (loading dock) facing southeast. Location of soil borings WP-50 and WP-55.***
ERM NC, Inc.	

Photograph #2	***Description: View of installation of DW-1 on northern portion of the site facing southeast.***
ERM NC, Inc.	

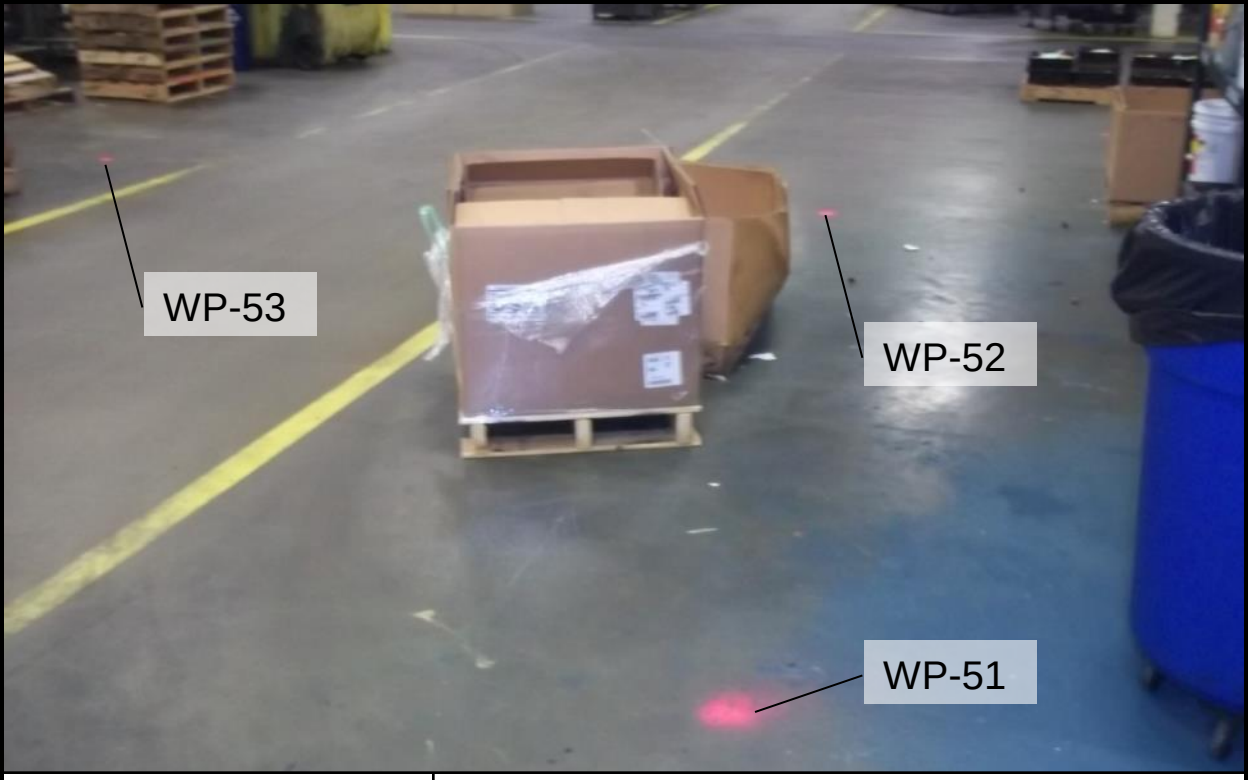
Photograph #3	***Description: View of WP-49 sample location in southwestern corner of site building.***
ERM NC, Inc.	

Photograph #4	***Description: View of MW-12 location on northeast portion of the site facing north.***
ERM NC, Inc.	

Photograph #5	***Description: View of MW-11 location in north-central portion of the site building facing east.***
ERM NC, Inc.	



Photograph #6	***Description: View of AOC 1 and WP-52, WP-53 and WP-54 soil borings facing northeast.***
ERM NC, Inc.	



Photograph #7	***Description: View of AOC 1 and WP-51, WP-52 and WP-53 soil boring locations facing south.***
ERM NC, Inc.	

Photograph #8	***Description: View of BG-5 soil boring location facing southwest.***
ERM NC, Inc.	

APPENDIX C
BORING LOGS AND WELL CONSTRUCTION RECORDS

Client:	Engineered Controls International, Inc.	**Boring ID:**	BG-1
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838670.376
Logged By:	G. Kanellis	**Easting:**	1823529.291

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SP	Not Monitored	Soil	Fine SAND, little fines, brown to orange, dry, loose, slight plasticity
0.4				
0.8				
1.2				
1.6				
2.0				
2.4				
2.8				
3.2				
3.6				
4.0				
4.4				
4.8				
5.2				
5.6				

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	5.5'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	594.878
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	BG-2
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838764.947
Logged By:	G. Kanellis	**Easting:**	1823527.406

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SP	Not Monitored		Fine SAND, little fines, brown to orange, dry, loose, slight plasticity
0.2				
0.4				
0.6				
0.8				
1.0				
1.2				
1.4				
1.6				
1.8				
2.0				
2.2				
2.4				
2.6				
2.8				
3.0			Soil	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	3'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	593.295
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	BG-3
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838861.612
Logged By:	G. Kanellis	**Easting:**	1823584.153

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SP	Not Monitored		Fine SAND, little fines, reddish brown with black deposits, dry, loose, slight plasticity
0.2				
0.4				
0.6				
0.8				
1.0				
1.2				
1.4				
1.6				
1.8				
2.0				
2.2				
2.4				
2.6				
2.8				
3.0			Soil	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	3'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	588.162
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	BG-4
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838922.875
Logged By:	G. Kanellis	**Easting:**	1823595.053

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0 – 1.0	SC	Not Monitored		Clayey SAND, reddish brown, dry, medium dense, low plasticity
1.0 – 4.0	SP		Soil	Fine SAND, light brown, dry, loose, slight plasticity

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	4'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	586.091
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	BG-5
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	839021.514
Logged By:	G. Kanellis	**Easting:**	1823615.78

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SP	Not Monitored		Fine SAND, dark brown to brown, dry, loose, slight plasticity
1.0	SP		Soil	Fine SAND, little fines and coarse gravel, dark brown to brown, dry, loose, low plasticity
2.0				

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	2'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	592.37
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	BG-6
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838967.882
Logged By:	G. Kanellis	**Easting:**	1823555.492

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SP	Not Monitored		Fine SAND, some fines, reddish brown, dry, loose, low plasticity
0.2				
0.4				
0.6				
0.8				
1.0				
1.2				
1.4				
1.6				
1.8				
2.0				
2.2				
2.4				
2.6				
2.8				
3.0			Soil	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	3'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	597.047
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	BG-7
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838894.134
Logged By:	G. Kanellis	**Easting:**	1823499.856

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SP	Not Monitored		Fine SAND, some fines, brown, dry, loose, low plasticity
0.2				
0.4				
0.6				
0.8				
1.0				
1.2				
1.4				
1.6				
1.8				
2.0				
2.2				
2.4				
2.6				
2.8				
3.0			Soil	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	3'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	605.983
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	WP-54
Project:	ECI - Whitsett Facility	**Date Started:**	5/22/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/22/14
Project Number:	0235369	**Northing:**	838850.328
Logged By:	G. Kanellis	**Easting:**	1823009.73

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SW			Well graded SAND with fine gravel, greenish brown, dry, medium dense, non-plastic
0.1				
0.1				
0.2				
0.2				
0.3				
0.3				
0.3				
0.4				
0.4				
0.5				
0.5				
0.6				
0.7				
0.7				
0.8				
0.8				
0.9				
0.9				
1.0				
1.0		99.9	Soil	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	1'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	635.933
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	WP-53
Project:	ECI - Whitsett Facility	**Date Started:**	5/22/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/22/14
Project Number:	0235369	**Northing:**	838862.582
Logged By:	G. Kanellis	**Easting:**	1823026.874

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SM	10.2		6" Concrete, Silty SAND, orange to brown, dry, medium dense, low plasticity
0.2				
0.4				
0.6				
0.8				
1.0				
1.2				
1.4				
1.6				
1.8				
2.0				
2.2				
2.4				
2.6				
2.8				
3.0		30.6	Soil & Dup	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	3'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	635.942
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	WP-52
Project:	ECI - Whitsett Facility	**Date Started:**	5/22/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/22/14
Project Number:	0235369	**Northing:**	838860.28
Logged By:	G. Kanellis	**Easting:**	1823012.938

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SM	7.3		6" Concrete, Gravel, Silty SAND, gray gravel to brown sand, moist
0.1				
0.2				
0.3				
0.4				
0.5				
0.6				
0.7				
0.8				
0.9				
1.0				
1.1				
1.2				
1.3				
1.4				
1.5				

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	1.5'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	635.933
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	WP-51
Project:	ECI - Whitsett Facility	**Date Started:**	5/22/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/22/14
Project Number:	0235369	**Northing:**	838874.114
Logged By:	G. Kanellis	**Easting:**	1823008.842

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SM			6" Concrete, Silty SAND, some fine gravel, tan to orange, dry, medium dense, low plasticity
0.2				
0.4				
0.6				
0.8				
1.0		6.2		
1.2				
1.4				
1.6				
1.8				
2.0				
2.2				
2.4				
2.6				
2.8				
3.0		7.5		
3.2				
3.4				
3.6				
3.8				
4.0		14.3	Soil	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	4'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	635.945
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	WP-50
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838987.417
Logged By:	G. Kanellis	**Easting:**	1822959.624

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	SP	7.1	Soil	6" Concrete, SAND, brown, damp, loose, slight plasticity
1.0				
2.0				
3.0				
4.0		7.7		
5.0	SW	4.2		Well graded SAND, little fines, light to dark brown, dry, dense, slight plasticity
6.0				
7.0				
8.0		5		
9.0				
10.0	SW	7		Well graded SAND, little fines, gray to brown, damp, dense, slight plasticity
11.0	SM			Silty SAND, brown to greenish gray, damp, very dense, medium plasticity
12.0		12.2	Soil	
13.0				

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	12.5'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	631.512
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	WP-49
Project:	ECI - Whitsett Facility	**Date Started:**	5/21/14
Site Location:	Whitsett, North Carolina	**Date Completed:**	5/21/14
Project Number:	0235369	**Northing:**	838630.162
Logged By:	G. Kanellis	**Easting:**	1822960.016

Depth	Lithology	PID (ppm)	Lab Sample Collected	Lithologic Description
0.0	-			6" Concrete, crushed stone
1.0	SP	>9999		SAND & GRAVEL, green, saturated, medium dense, non-plastic
3.0		>9999	Soil	

Drilling Contractor:	SAEDACCO	**Total Depth (ft):**	3'
Drilling Method:	Direct Push	**Ground Elevation (msl):**	631.988
Drilling Equipment:	Geoprobe 7822DT		
Responsible Professional:	Randy Hoffman/ NC #3476		
Borehole Diameter:	2"		

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	MW-14
Project:	ECI - Whitsett Facility	**Date Started:**	7/6/15
Site Location:	Whitsett, North Carolina	**Date Completed:**	7/9/15
Project Number:	0268957	**Northing:**	839109.688
Logged By:	T. Naumann	**Easting:**	1822503.387

Depth	Lithology	Lithologic Description	Well Construction	Well Construction Details
0		Concrete		Flush Grade Locking Cap
5				Portland/Bentonite Grout
10				8.25" Diameter Borehole
15	CL	Silty CLAY, red		
20				
25				6" Sch. 40 PVC Casing (Casing set at 35')
30				
35				2" Sch. 40 PVC Casing
40				
45	BR	Competent ROCK		
50				
55				Bentonite Seal
60				
	FBR	Fractured ROCK		Well Sand Filter Pack
65				2" Sch. 40 PVC 0.010" Slot Screen
70				End Cap
75	BR	Competent ROCK		
80				
85				Bentonite Seal
90				
95				

Drilling Contractor:	SAEDACCO	**Outer Casing Depth:**	35
Drilling Method:	Auger/Air Rotary	**Total Depth (ft):**	90'
Drilling Equipment:	Diedrich D50	**Screened Interval:**	60-70'
Responsible Professional:	Steve Poloniewicz/ NC #2284-A	**Ground Elevation (msl):**	588.07
Borehole Diameter:	8.25"	**Top of Casing Elev (msl):**	587.85

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	MW-14D
Project:	ECI - Whitsett Facility	**Date Started:**	7/7/15
Site Location:	Whitsett, North Carolina	**Date Completed:**	7/9/15
Project Number:	0268957	**Northing:**	839119.864
Logged By:	T. Naumann	**Easting:**	1822494.007

Depth	Lithology	Lithologic Description	Well Construction	Well Construction Details
0		Concrete		Flush Grade Locking Cap
				Portland/Bentonite Grout
10	CL	Silty CLAY, red		8.25" Diameter Borehole
20				6" Sch. 40 PVC Casing (Casing set at 92')
30				2" Sch. 40 PVC Casing
40				
50				
60				
70	BR	Competent ROCK		
80				
90				
100				
110				
120				Bentonite Seal
				Well Sand Filter Pack
130	FBR	Fractured ROCK		2" Sch. 40 PVC 0.010" Slot Screen
	BR	Competent ROCK		End Cap
140				Well Sand
150				

Drilling Contractor:	SAEDACCO	**Outer Casing Depth:**	92
Drilling Method:	Auger/Air Rotary	**Total Depth (ft):**	135'
Drilling Equipment:	Diedrich D50	**Screened Interval:**	125-135'
Responsible Professional:	Steve Poloniewicz/ NC #2284-A	**Ground Elevation (msl):**	587.44
Borehole Diameter:	8.25"	**Top of Casing Elev (msl):**	587.21

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	MW-15 Set
Project:	ECI - Whitsett Facility	**Date Started:**	7/9/15
Site Location:	Whitsett, North Carolina	**Date Completed:**	7/16/15
Project Number:	0268957	**Northing:**	839026.184
Logged By:	A. Velazquez	**Easting:**	1822918.012

Depth	Lithology	Lithologic Description	Well Construction	Well Construction Details
0		Concrete		Flush Grade Locking Cap
10	SM	Silty SAND, tan		Portland/Bentonite Grout
	PWR	Partially Weathered ROCK		6.25" Diameter Borehole
20	SM	Silty SAND, tan		MW-15S: 1" Sch. 40 PVC Casing
				Bentonite Seal
30				Well Sand Filter Pack
				MW-15S: 1" Sch. 40 PVC 0.010" Slot Screen
40				MW-15S: End Cap
50				
60				
70				Bentonite Seal
	BR	Competent ROCK		
80				
				MW-15D: 1" Sch. 40 PVC Casing
90				
100				Well Sand Filter Pack
110				MW-15D: 1" Sch. 40 PVC 0.010" Slot Screen
120				MW-15D: End Cap Well Sand
130				

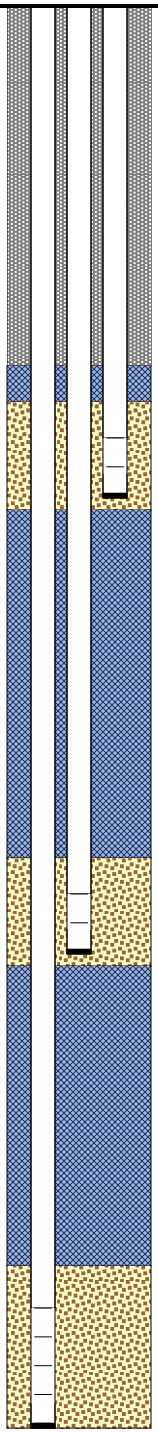
Drilling Contractor:	SAEDACCO	**Outer Casing Depth:**	NA
Drilling Method:	Auger/Air Rotary	**Total Depth (ft):**	120'
Drilling Equipment:	Diedrich D50	**Screened Interval:**	30-40' / 105-120'
Responsible Professional:	Robert Miller/ NC #2675	**Ground Elevation (msl):**	631.06
Borehole Diameter:	6.25"	**Top of Casing Elev (msl):**	630.85 / 630.82

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	MW-16 Set
Project:	ECI - Whitsett Facility	**Date Started:**	7/15/15
Site Location:	Whitsett, North Carolina	**Date Completed:**	7/15/15
Project Number:	0268957	**Northing:**	838910.228
Logged By:	G. Kanellis	**Easting:**	1822964.757

Depth	Lithology	Lithologic Description
0	ML	Concrete
		Coarse Gravel
	SM	Clayey SILT, dark brown
10		Silty SAND, light brown
	PWR	Partially weathered ROCK
20	BR	Competent ROCK
	CL	Sandy CLAY
	PWR	Partially weathered ROCK
30	BR	Competent ROCK
	FBR	Fractured ROCK
40	BR	Competent ROCK, small fractures present intermittently
50	BR	Competent ROCK
60	BR	Competent ROCK, small fractures present intermittently
70	BR	Competent ROCK
	FBR	Fractured ROCK
	BR	Competent ROCK
	FBR	Fractured ROCK
80	BR	Competent ROCK
90		
100		
110		
120		

Well Construction



Well Construction Details

Flush Grade Locking Cap

Portland/Bentonite Grout

6.25" Diameter Borehole

MW-16: 1" Sch. 40 PVC Casing

Bentonite Seal

Well Sand Filter Pack

MW-16: 1" Sch. 40 PVC 0.010" Slot Screen

MW-16: End Cap

Bentonite Seal

DW-16: 1" Sch. 40 PVC Casing

Well Sand Filter Pack

DW-16: 1" Sch. 40 PVC 0.010" Slot Screen

DW-16: End Cap

Bentonite Seal

DW-16D: 1" Sch. 40 PVC Casing

Well Sand Filter Pack

DW-16D: 1" Sch. 40 PVC 0.010" Slot Screen

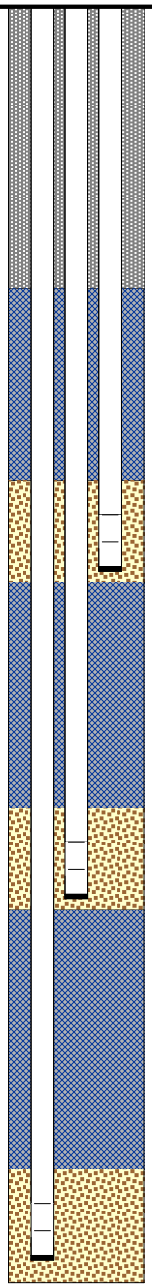
DW-16D: End Cap

Drilling Contractor:	SAEDACCO	**Outer Casing Depth:**	NA
Drilling Method:	Auger/Air Rotary	**Total Depth (ft):**	118.5'
Drilling Equipment:	Diedrich D50	**Screened Interval:**	36-41'/74-79'/108.5-118.5'
Responsible Professional:	Rich Lemire/ NC #2593-A	**Ground Elevation (msl):**	635.94
Borehole Diameter:	6.25"	**Top of Casing Elev (msl):**	635.71/635.72/635.72

ERM

Client:	Engineered Controls International, Inc.	**Boring ID:**	MW-17 Set
Project:	ECI - Whitsett Facility	**Date Started:**	7/6/15
Site Location:	Whitsett, North Carolina	**Date Completed:**	7/8/15
Project Number:	0268957	**Northing:**	838924.97
Logged By:	G. Kanellis	**Easting:**	1823017.678

Depth	Lithology	Lithologic Description
0	ML	Concrete
		Coarse Gravel
		Clayey SILT, dark brown
	SM	Silty SAND, light brown
10	PWR	Partially weathered ROCK
20	PWR	Partially weathered ROCK with sandy clay lenses
30	FBR	Fractured ROCK
	CL	Sandy CLAY
40	BR	Competent ROCK (Granite), small fractures present intermittently
50	BR	Competent ROCK (Granite), no apparent fractures
	BR	Competent ROCK (Granite), small fractures present intermittently
60	BR	Competent ROCK (Granite), no apparent fractures
70	FBR	Competent ROCK (Granite), water bearing fractures present intermittenly
80	BR	Competent ROCK (Granite), no apparent fractures
	FBR	Competent ROCK (Granite), water bearing fractures present intermittenly
90	BR	Competent ROCK (Granite), no apparent fractures
100	BR	Competent ROCK (Granite), small fractures present intermittently
110		
120		



Well Construction Details

Flush Grade Locking Cap

Portland/Bentonite Grout

6.25" Diameter Borehole

Bentonite Seal

MW-17: 1" Sch. 40 PVC Casing

Well Sand Filter Pack

MW-17: 1" Sch. 40 PVC 0.010" Slot Screen

MW-17: End Cap

Bentonite Seal

DW-17: 1" Sch. 40 PVC Casing

Well Sand Filter Pack

DW-17: 1" Sch. 40 PVC 0.010" Slot Screen

DW-17: End Cap

Bentonite Seal

DW-17D: 1" Sch. 40 PVC Casing

Well Sand Filter Pack

DW-17D: 1" Sch. 40 PVC 0.010" Slot Screen

DW-17D: End Cap

Drilling Contractor:	SAEDACCO	**Outer Casing Depth:**	NA
Drilling Method:	Auger/Air Rotary	**Total Depth (ft):**	113'
Drilling Equipment:	Diedrich D50	**Screened Interval:**	45-50' / 74-79' / 106-111'
Responsible Professional:	Rich Lemire/ NC #2593-A	**Ground Elevation (msl):**	635.93
Borehole Diameter:	6.25"	**Top of Casing Elev (msl):**	635.70/635.70/635.69

ERM

NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2675

1. WELL CONTRACTOR:

Robert Miller
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill SC 29707
City or Town State Zip Code

( ) (803)548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) DW-1

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 6-5-2014

4. WELL LOCATION:

1239 Rock Creek Dairy Road Whitsett
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: WHITSETT COUNTY GUILFORD

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☒Slope ☐Valley ☐Flat ☐Ridge ☐Other

LATITUDE 34.9638 " DMS **OR** 3X.XXXXXXXXX DD

LONGITUDE 80.8551 " DMS **OR** 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

ECI WHITSETT DW-1
Facility Name Facility ID# (if applicable)

1239 ROCK CREEK DAIRY RD
Street Address

WHITSETT NC
City or Town State Zip Code

Greg Kanellis
Contact Name

1130 SITUS COURT SUITE 250
Mailing Address

RALEIGH NC 27612
City or Town State Zip Code

(919) 745-7197
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 113'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: _____FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST**_____

f. **DISINFECTION: Type**_____ **Amount** _____

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 103'	Ft. 2'	SCH40	PVC
Top 0	Bottom 75'	Ft. 6"	SCH-40	PVC
Top	Bottom	Ft.		

8. GROUT:

Depth		Material	Method
Top 0	Bottom 99'	Ft. portland	trimie
Top 0	Bottom 75'	Ft. portland	trimie
Top	Bottom	Ft.	

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 103'	Bottom 113'	Ft. 2' in.	.010 in.	PVC
Top	Bottom	Ft. in.	in.	
Top	Bottom	Ft. in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 101'	Bottom 113'	Ft. 20/30	silica sand
Top	Bottom	Ft.	
Top	Bottom	Ft.	

11. DRILLING LOG

Top	Bottom	Formation Description
0	15'	Tan Silt
15'	113'	Bed Rock
	113'	

12. REMARKS:

Bentonite seal from 99'TO 101'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 5/31/2014

Robert L. Miller
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2593-A

1. WELL CONTRACTOR:
Rich Lemire
Well Contractor (Individual) Name
SAEDACCO Inc
Well Contractor Company Name
9088 Northfield Drive
Street Address
Fort Mill SC 29707
City or Town State Zip Code
( ) (803)548-2180
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT#
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable) MW-11

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)
DATE DRILLED 5-29-2014

4. WELL LOCATION:
1239 Rock Creek Dairy Road Whitsett
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: WHITSETT COUNTY GUILFORD
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other
LATITUDE 34.9638 " DMS **OR** 3X.XXXXXXXXX DD
LONGITUDE 80.8551 " DMS **OR** 7X.XXXXXXXXX DD
Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
ECI WHITSETT MW-11
Facility Name Facility ID# (if applicable)
1239 ROCK CREEK DAIRY RD
Street Address
WHITSETT NC
City or Town State Zip Code
LANE DORMAN
Contact Name
1130 SITUS COURT SUITE 250
Mailing Address
RALEIGH NC 27612
City or Town State Zip Code
(919) 233-4501
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 60'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒
c. **WATER LEVEL** Below Top of Casing: N/A FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** **METHOD OF TEST**
f. **DISINFECTION: Type** **Amount**
g. **WATER ZONES** (depth):
Top Bottom Top Bottom
Top Bottom Top Bottom
Top Bottom Top Bottom

7. CASING:	Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 45'	Ft.	2'	SCH40	PVC
Top 0	Bottom 30'	Ft.	6"	SCH40	PVC
Top	Bottom	Ft.			

8. GROUT:	Depth		Material	Method
Top 0	Bottom 37'	Ft.	PORTLAND	TREMMIE
Top	Bottom	Ft.		
Top	Bottom	Ft.		

9. SCREEN:	Depth		Diameter	Slot Size	Material
Top 45'	Bottom 60'	Ft.	2' in.	.010 in.	PVC
Top	Bottom	Ft.	in.	in.	
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
Top 41'	Bottom 68.5	Ft.	#2	SAND
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	30'	RED CLAY/SILT/PWR
30'	68.5'	ROCK
	68.5'	

12. REMARKS:
BENTONITE FROM 37'TO41'.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Richy L Lemire 5/31/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

RICHY L LEMIRE
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2675

1. WELL CONTRACTOR:

Robert Miller
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill SC 29707
City or Town State Zip Code

( ) (803)548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-12

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 6-4-2014

4. WELL LOCATION:

1239 Rock Creek Dairy Road Whitsett
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: WHITSETT COUNTY GUILFORD

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☒Slope ☐Valley ☐Flat ☐Ridge ☐Other

LATITUDE 34.9638 " DMS **OR** 3X.XXXXXXXXX DD

LONGITUDE 80.8551 " DMS **OR** 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

ECI WHITSETT MW-12
Facility Name Facility ID# (if applicable)

1239 ROCK CREEK DAIRY RD
Street Address

WHITSETT NC
City or Town State Zip Code

Greg Kanellis
Contact Name

1130 SITUS COURT SUITE 250
Mailing Address

RALEIGH NC 27612
City or Town State Zip Code

(919) 745-7197
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 46'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: _____FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST**_____

f. **DISINFECTION: Type**_____ **Amount** _____

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 36'	Ft. 2'	SCH40	PVC
Top 0	Bottom 30'	Ft. 6"	SCH-40	PVC
Top	Bottom	Ft.		

8. GROUT:

Depth		Material	Method
Top 0	Bottom 32'	Ft. portland	trimie
Top 0	Bottom 30'	Ft. portland	trimie
Top	Bottom	Ft.	

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 36'	Bottom 46'	Ft. 2' in.	.010 in.	PVC
Top	Bottom	Ft. in.	in.	
Top	Bottom	Ft. in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 34'	Bottom 46'	Ft. 20/30	silica sand
Top	Bottom	Ft.	
Top	Bottom	Ft.	

11. DRILLING LOG

Top	Bottom	Formation Description
0	15'	Tan Silt
15'	25'	pwr
25'	46'	bed rock
	25'	

12. REMARKS:

Bentonite seal from 32'to 34'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 5/31/2014

Robert L. Miller
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2675

1. WELL CONTRACTOR:

Robert Miller
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill SC 29707
City or Town State Zip Code

( ) (803)548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) DW1-1D

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 9-29-14 to 10-1-14

4. WELL LOCATION:

1239 Rock Creek Dairy Road Whitsett
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: WHITSETT COUNTY GUILFORD

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☒Slope ☐Valley ☐Flat ☐Ridge ☐Other

LATITUDE " DMS **OR** 3x.xxxxxxxxx DD

LONGITUDE " DMS **OR** 7x.xxxxxxxxx DD

Latitude/longitude source: ☐GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

site investigation
Facility Name Facility ID# (if applicable)

1239 ROCK CREEK DAIRY RD
Street Address

WHITSETT NC
City or Town State Zip Code

ERM NC,Inc.
Contact Name

15720 Brixham Hill Avenue
Mailing Address

Charlotte N.C. 28278
City or Town State Zip Code

(704) 301-2262
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 175'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** **METHOD OF TEST**

f. **DISINFECTION: Type** **Amount**

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 155' Ft.	2"	Sch 40	PVC
Top 0	Bottom 120' Ft.	6"	SCH 40	PVC
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 151' Ft.	portland	trimie
Top 0	Bottom 120' Ft.	portland	trimie
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 155'	Bottom 175' Ft.	2" in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 153'	Bottom 175' Ft.	20/30	silica sand
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	23'	Tan silt
23'	175'	Bed Rock
	175'	

12. REMARKS:

Two feet bentonite seal from 151'to 153'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 10/2/2014

Robert L. Miller
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR CERTIFICATION # 2675

1. WELL CONTRACTOR:

Robert Miller
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill SC 29707
City or Town State Zip Code

( ) (803)548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-13

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 10-2-14

4. WELL LOCATION:

1239 Rock Creek Dairy Road Whitsett
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: WHITSETT COUNTY GUILFORD

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other

LATITUDE " DMS **OR** 3x.xxxxxxxxx DD

LONGITUDE " DMS **OR** 7x.xxxxxxxxx DD

Latitude/longitude source: ☐GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

site investigation
Facility Name Facility ID# (if applicable)

1239 ROCK CREEK DAIRY RD
Street Address

WHITSETT NC
City or Town State Zip Code

ERM NC,Inc.
Contact Name

15720 Brixham Hill Avenue
Mailing Address

Charlotte N.C. 28278
City or Town State Zip Code

(704) 301-2262
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 90'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** **METHOD OF TEST**

f. **DISINFECTION: Type** **Amount**

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 80'	Ft. 2"	Sch 40	PVC
Top 0	Bottom 30'	Ft. 6"	SCH 40	PVC
Top	Bottom	Ft.		

8. GROUT:

Depth		Material	Method
Top 0	Bottom 72'	Ft. portland	trimie
Top 0	Bottom 30'	Ft. portland	trimie
Top	Bottom	Ft.	

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 155'	Bottom 175'	Ft. 2" in.	.010 in.	PVC
Top	Bottom	Ft. in.	in.	
Top	Bottom	Ft. in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 78'	Bottom 91'	Ft. 20/30	silica sand
Top	Bottom	Ft.	
Top	Bottom	Ft.	

11. DRILLING LOG

Top	Bottom	Formation Description
0	5'	Tan silt
5'	90'	Bed Rock
	90'	

12. REMARKS:

Four feet bentonite seal from 72'TO 76'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 10/2/2014

Robert L. Miller
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Steve Poloniewicz
Well Contractor Name

2284 A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/092015 **Well ID#** MW-14D

5a. Well Location:

ECI
Facility/Owner Name

Facility ID# (if applicable)

Rock Creek Dairy Rd, Wbitsett, NC, 27377
Physical Address, City, and Zip

US
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.053569 N -79.598642 W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 135 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 5 7/8 **(in.)**

12. Well construction method: _____
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.6' ft.	125' ft.	2" in.	Sch 40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	92' ft.	6" in.	Sch 40	Pvc
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
125' ft.	135' ft.	2" in.	.010	Sch 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
1.0' ft.	120' ft.	Portland	Trimmie Bot/top
120' ft.	122' ft.	Bent/pellets	Pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
122' ft.	135' ft.	silica sand	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	25' ft.	Red silty clay
25' ft.	92' ft.	Pwr
92' ft.	135' ft.	Bedrock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Steve Poloniewicz
Signature of Certified Well Contractor

7/15/2015
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Steve Poloniewicz
Well Contractor Name

2284 A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
☐Agricultural ☐Municipal/Public
☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)
☐Industrial/Commercial ☐Residential Water Supply (shared)
☐Irrigation

Non-Water Supply Well:
☒Monitoring ☐Recovery

Injection Well:
☐Aquifer Recharge ☐Groundwater Remediation
☐Aquifer Storage and Recovery ☐Salinity Barrier
☐Aquifer Test ☐Stormwater Drainage
☐Experimental Technology ☐Subsidence Control
☐Geothermal (Closed Loop) ☐Tracer
☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/092015 **Well ID#** MW-14

5a. Well Location:

ECI
Facility/Owner Name

Facility ID# (if applicable)

Rock Creek Dairy Rd, Wbitsett, NC, 27377
Physical Address, City, and Zip

US
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.053569 N -79.598642 W

6. Is (are) the well(s): ☒**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☒**No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 90 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 5 7/8 **(in.)**

12. Well construction method: _____
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.6' ft.	60' ft.	2" in.	Sch 40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	35' ft.	6" in.	Sch 40	Pvc
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
60' ft.	70' ft.	2" in.	.010	Sch 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
1.0' ft.	56' ft.	Portland	Trimmie Bot/top
56' ft.	58' ft.	Bent/pellets	Pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
58' ft.	72' ft.	silica sand	#2
72' ft.	90' ft.	Bentonite pellets	

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	28' ft.	Red silty clay
28' ft.	90' ft.	Bedrock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

We drilled bore hole to 90' . But set well @ 70'

22. Certification:

Steve Poloniewicz
Signature of Certified Well Contractor

7/15/2015
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Robert Miller
Well Contractor Name

2675
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-16-2015 **Well ID#** MW-15D/MW-15S

5a. Well Location:

ENGINEERED CONTROLS INC.
Facility/Owner Name

Facility ID# (if applicable)

1239 ROCK CREEK DAIRY ROAD, WHITSETT, NC, 27377
Physical Address, City, and Zip

Guilford
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.053569 N 79.598642 W

6. Is (are) the well(s): ☐ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☐ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 120' & 40' **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 6" **(in.)**

12. Well construction method: _____
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30' ft.	1" in.	SCH40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	105' ft.	1" in.	SCH40	PVC
0 ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30' ft.	40' ft.	1" in.	.010	SCH40	PVC
105' ft.	120' ft.	1" in.	.010	SCH40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	25' ft.	Portland	Pour
41' ft.	103' ft.	bentonite	Pour
25' ft.	28' ft.	bentonite	Pour

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
28' ft.	41' ft.	Silica Sand	20/30
103' ft.	121' ft.	Silica Sand	20/30

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	15' ft.	Tan Silty Sand
15' ft.	18' ft.	PWR
18' ft.	25' ft.	Tan Silty Sand
25' ft.	120' ft.	Bed Rock
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

2 WELLS SET IN 1 HOLE BENTONITE SET BETWEEN WELLS

22. Certification:

Signature of Certified Well Contractor — 7/25/2015 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
☐Agricultural ☐Municipal/Public
☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)
☐Industrial/Commercial ☐Residential Water Supply (shared)
☐Irrigation

Non-Water Supply Well:
☒Monitoring ☐Recovery

Injection Well:
☐Aquifer Recharge ☐Groundwater Remediation
☐Aquifer Storage and Recovery ☐Salinity Barrier
☐Aquifer Test ☐Stormwater Drainage
☐Experimental Technology ☐Subsidence Control
☐Geothermal (Closed Loop) ☐Tracer
☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-15-2015 **Well ID#** MW-16/DW-16/DW-16D

5a. Well Location:

ENGINEERED CONTROLS INC.
Facility/Owner Name

Facility ID# (if applicable)

1239 ROCK CREEK DAIRY ROAD, WHITSETT, NC, 27377
Physical Address, City, and Zip

Guilford
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.053569 N 79.598642 W

6. Is (are) the well(s): ☐**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☐**No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 3
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 41'/79'/118.5' **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 15' **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 4" **(in.)**

12. Well construction method: _____
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0/0 ft.	19.5/36'	4"/1" in.	SCH40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	74 ft.	1" in.	SCH40	PVC
0 ft.	108.5 ft.	1" in.	SCH40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
36' ft.	41' ft.	1" in.	.010	SCH40	PVC
74' ft.	79' ft.	1" in.	.010	SCH40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
30' ft.	33' ft.	PORTLAND	TREMMIE
42' ft.	71' ft.	BENTONITE	POURED
80' ft.	105' ft.	BENTONITE	POURED

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
33' ft.	42' ft.	SAND	#2
71' ft.	80' ft.	SAND	#2

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	18' ft.	SILTY/CLAY
18' ft.	39' ft.	PWR
39' ft.	118.5 ft.	ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

3 WELLS SET IN 1 HOLE BENTONITE SET BETWEEN WELLS

22. Certification:

Rich L Lemire
Signature of Certified Well Contractor

7/15/2015
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-8-2015 **Well ID#** MW-17/DW17/DW17D

5a. Well Location:

ENGINEERED CONTROLS INC.
Facility/Owner Name

Facility ID# (if applicable)

1239 ROCK CREEK DAIRY ROAD, WHITSETT, NC, 27377
Physical Address, City, and Zip

Guilford
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.053569 N 79.598642 W

6. Is (are) the well(s): ☐ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☐ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 3
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 50'/79'/111' **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 15' **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 4" **(in.)**

12. Well construction method: _____
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0/0 ft.	18'/45' ft.	4.25"/1" in.	SCH40	Steel/PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	74 ft.	1" in.	SCH40	PVC
0 ft.	106 ft.	1" in.	SCH40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
45' ft.	50' ft.	1" in.	.010	SCH40	PVC
74' ft.	79' ft.	1" in.	.010	SCH40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
27' ft.	42' ft.	PORTLAND	TREMMIE
51' ft.	71' ft.	BENTONITE	POURED
80' ft.	103' ft.	BENTONITE	POURED

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
42' ft.	51' ft.	SAND	#2
71' ft.	80' ft.	SAND	#2

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	18' ft.	SILTY/CLAY
18' ft.	39' ft.	PWR
39' ft.	114' ft.	ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

3 WELLS SET IN 1 HOLE BENTONITE SET BETWEEN WELLS

22. Certification:

Rich L Lemire
Signature of Certified Well Contractor

7/11/2015
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

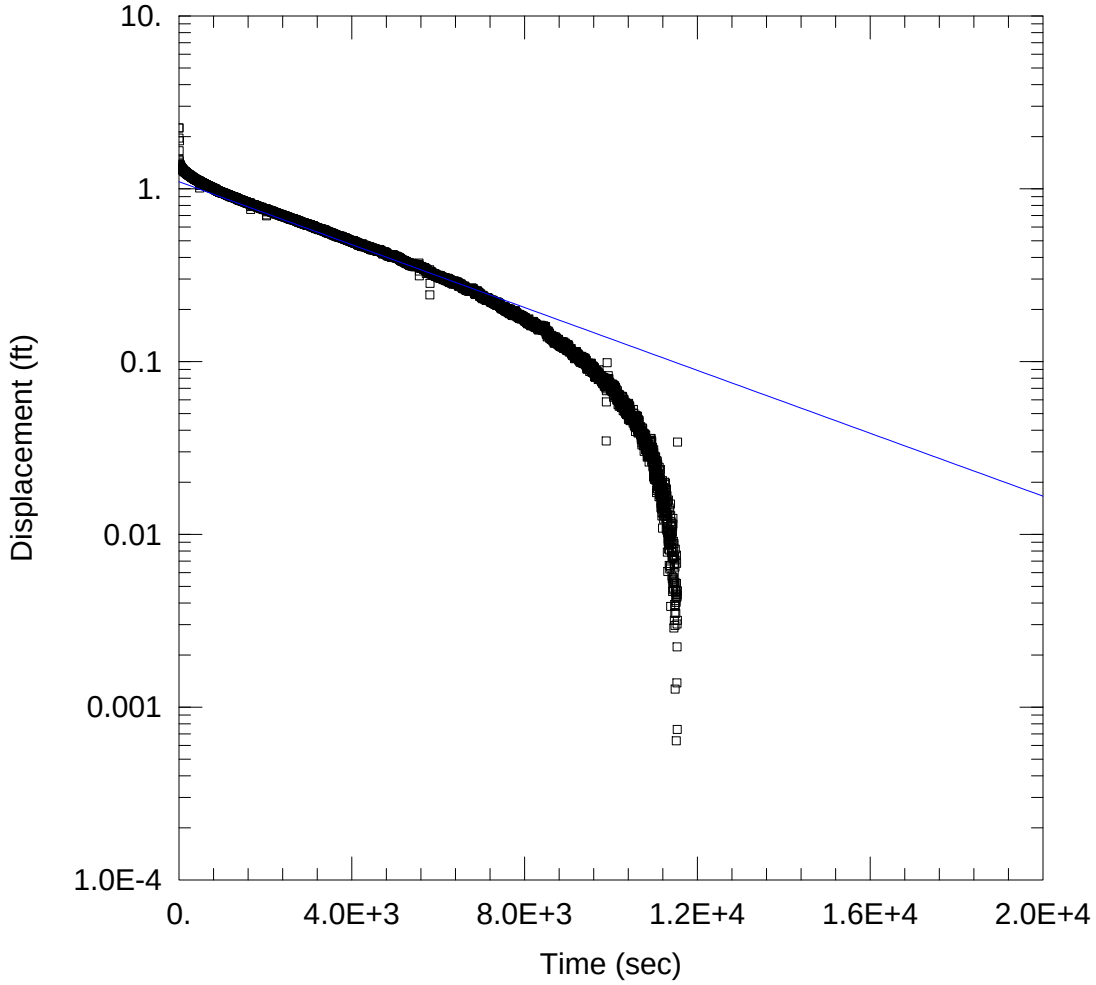
Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX D
SLUG TEST DATA AND HYDRAULIC CALCULATIONS



WELL TEST ANALYSIS

Data Set: C:\...\WHIT-MW-4-1.aqt
Date: 06/19/14 Time: 14:21:55

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-4
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 5.18 ft Anisotropy Ratio (Kz/Kr): 1.

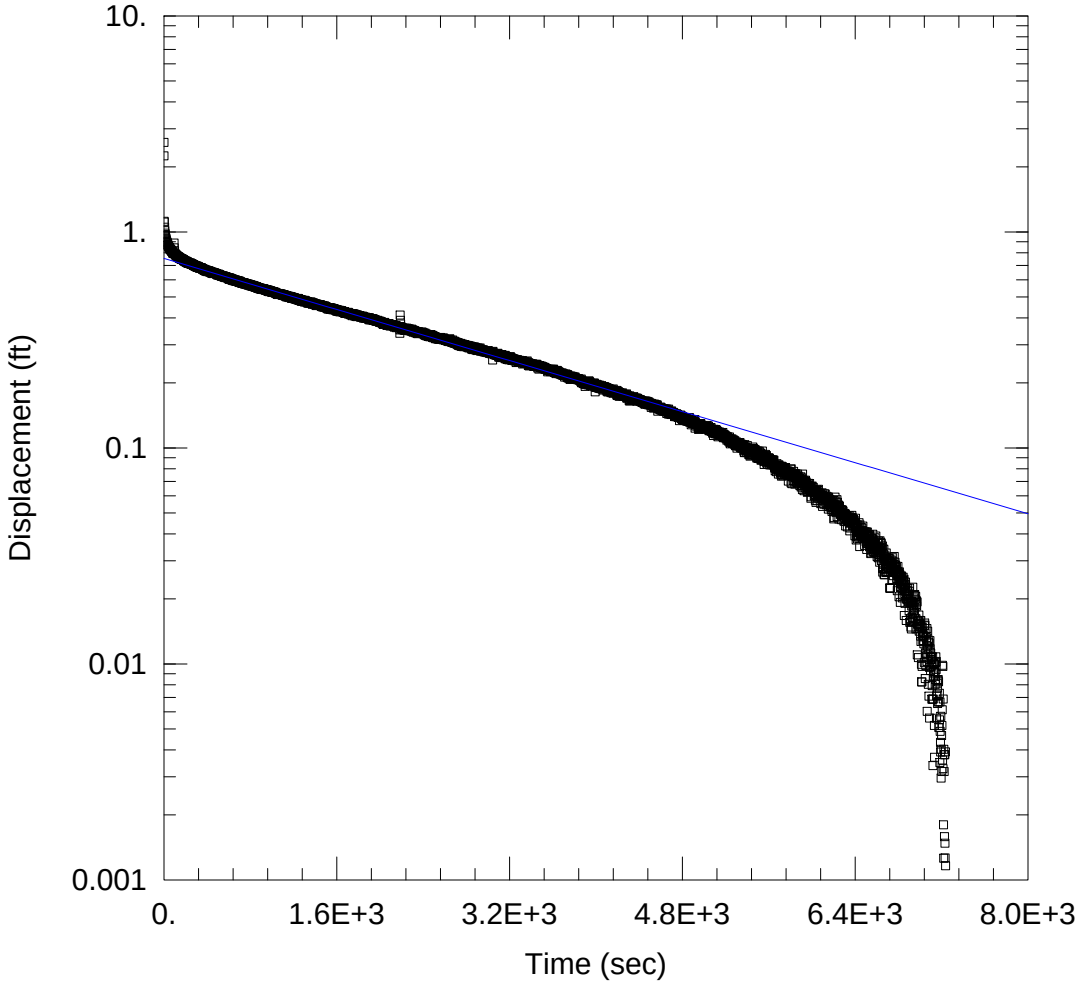
WELL DATA (MW-4)

Initial Displacement: 2.25 ft
Total Well Penetration Depth: 39.82 ft
Casing Radius: 0.08 ft
Static Water Column Height: 39.82 ft
Screen Length: 20. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 1.247E-7 m/sec
y0 = 1.098 ft



WELL TEST ANALYSIS

Data Set: C:\...\WHIT-MW-4-2.aqt
Date: 06/19/14 Time: 14:24:52

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-4
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 5.18 ft Anisotropy Ratio (Kz/Kr): 1.

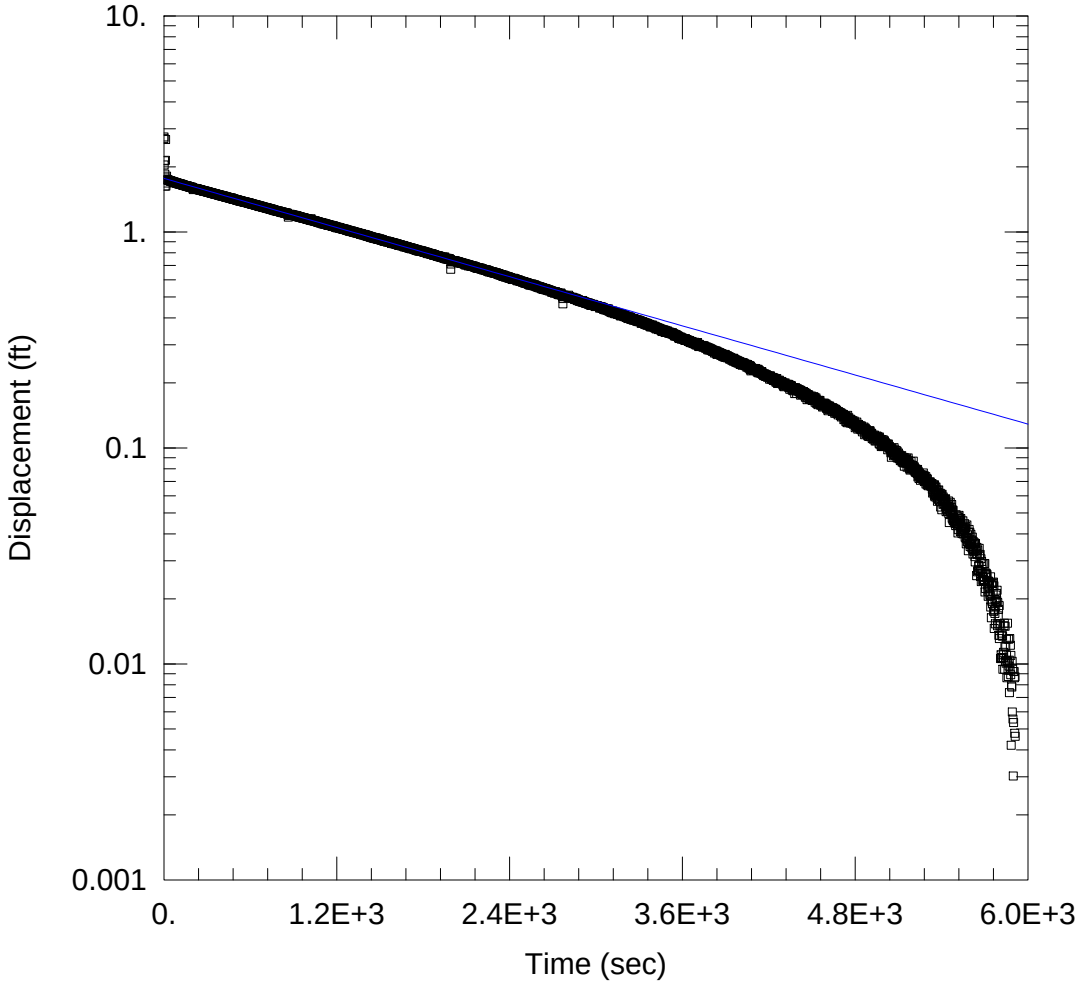
WELL DATA (MW-4)

Initial Displacement: 2.25 ft Static Water Column Height: 39.82 ft
Total Well Penetration Depth: 39.82 ft Screen Length: 20. ft
Casing Radius: 0.08 ft Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

K = 2.025E-7 m/sec y0 = 0.7535 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit-MW-9-1.aqt
Date: 06/19/14 Time: 17:19:39

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-9
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 36. ft Anisotropy Ratio (Kz/Kr): 1.

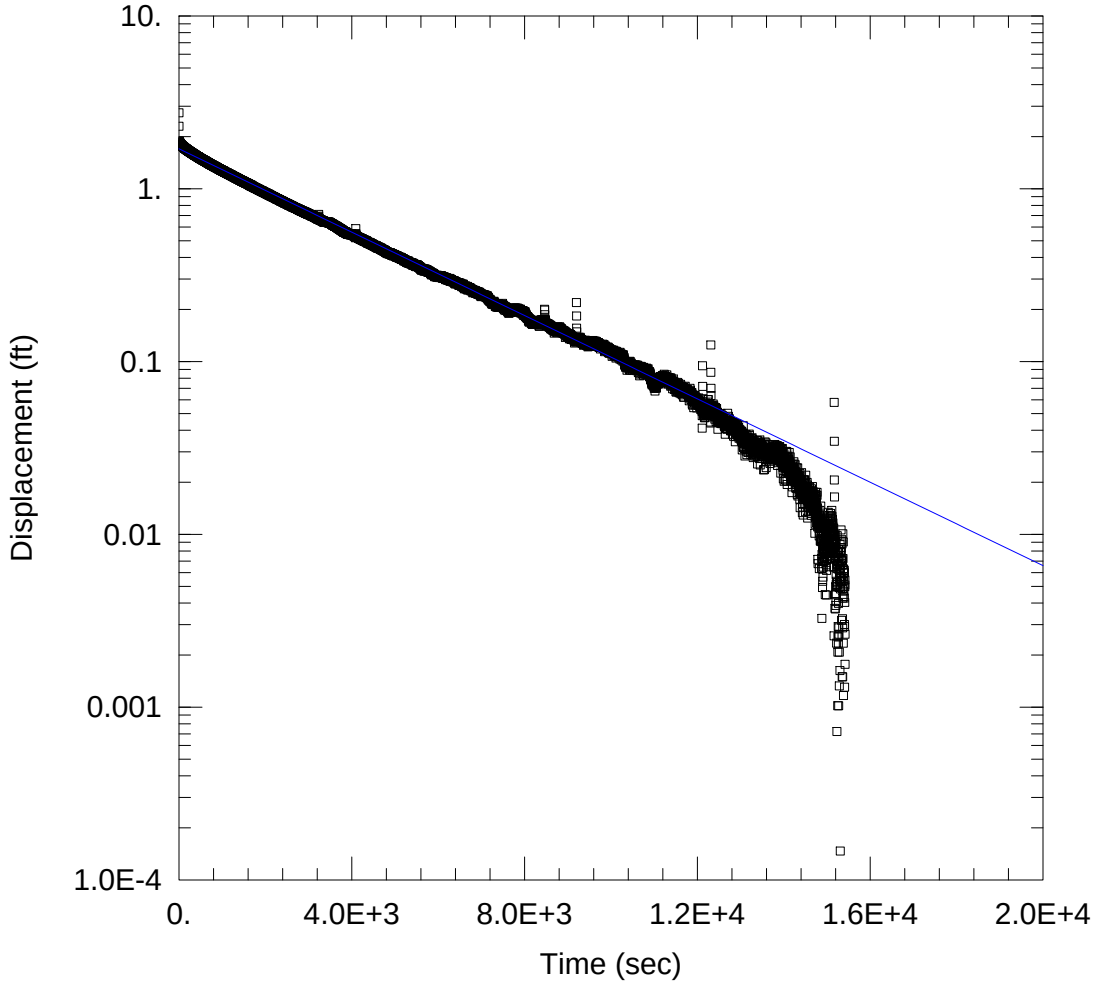
WELL DATA (MW-9)

Initial Displacement: 2.75 ft Static Water Column Height: 26.32 ft
Total Well Penetration Depth: 26.32 ft Screen Length: 20. ft
Casing Radius: 0.08 ft Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 6.47E-8 m/sec y0 = 1.769 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit-MW-9-2.aqt
Date: 06/19/14 Time: 17:21:25

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-9
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 36. ft Anisotropy Ratio (Kz/Kr): 1.

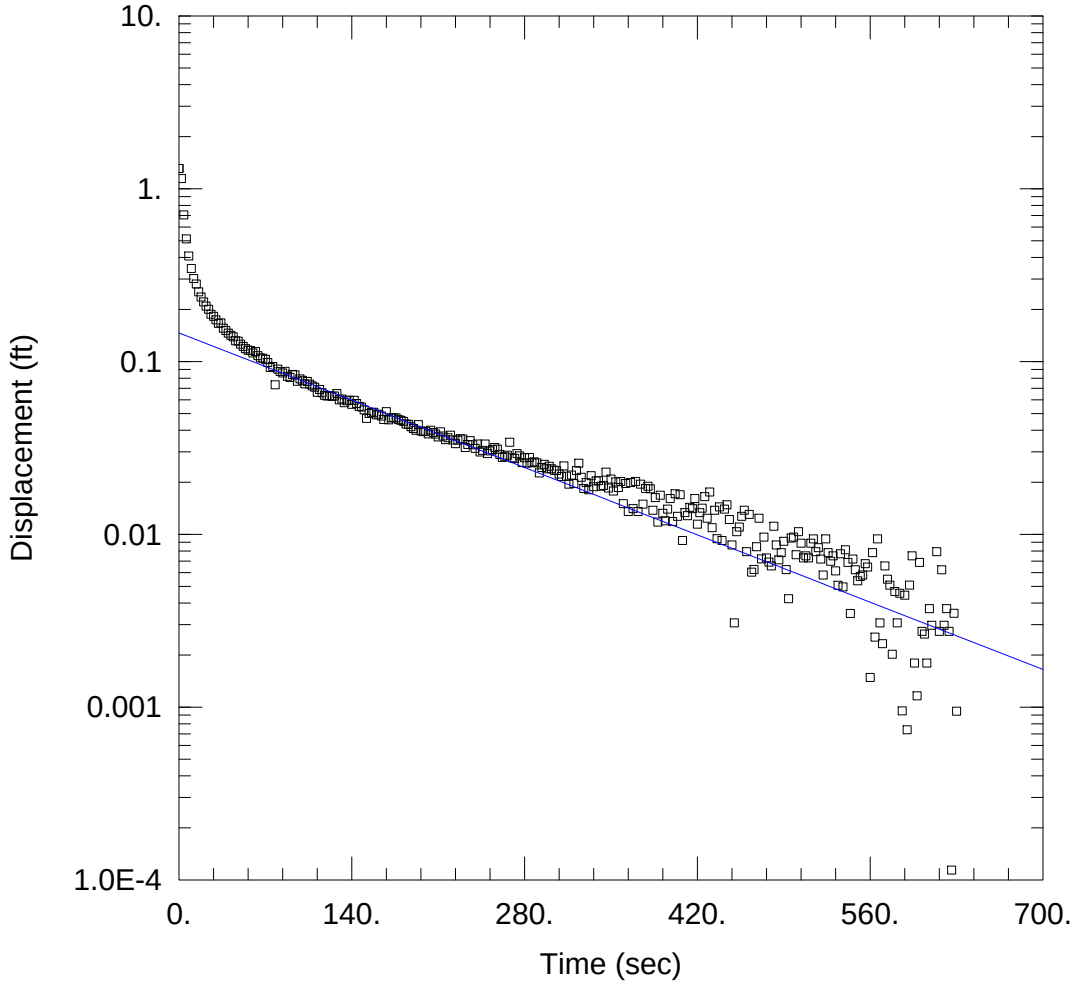
WELL DATA (MW-9)

Initial Displacement: 2.75 ft Static Water Column Height: 26.32 ft
Total Well Penetration Depth: 26.32 ft Screen Length: 20. ft
Casing Radius: 0.08 ft Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 4.116E-8 m/sec y0 = 1.703 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit MW-10-1.aqt
Date: 06/19/14 Time: 15:31:34

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-10
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 22. ft Anisotropy Ratio (Kz/Kr): 1.

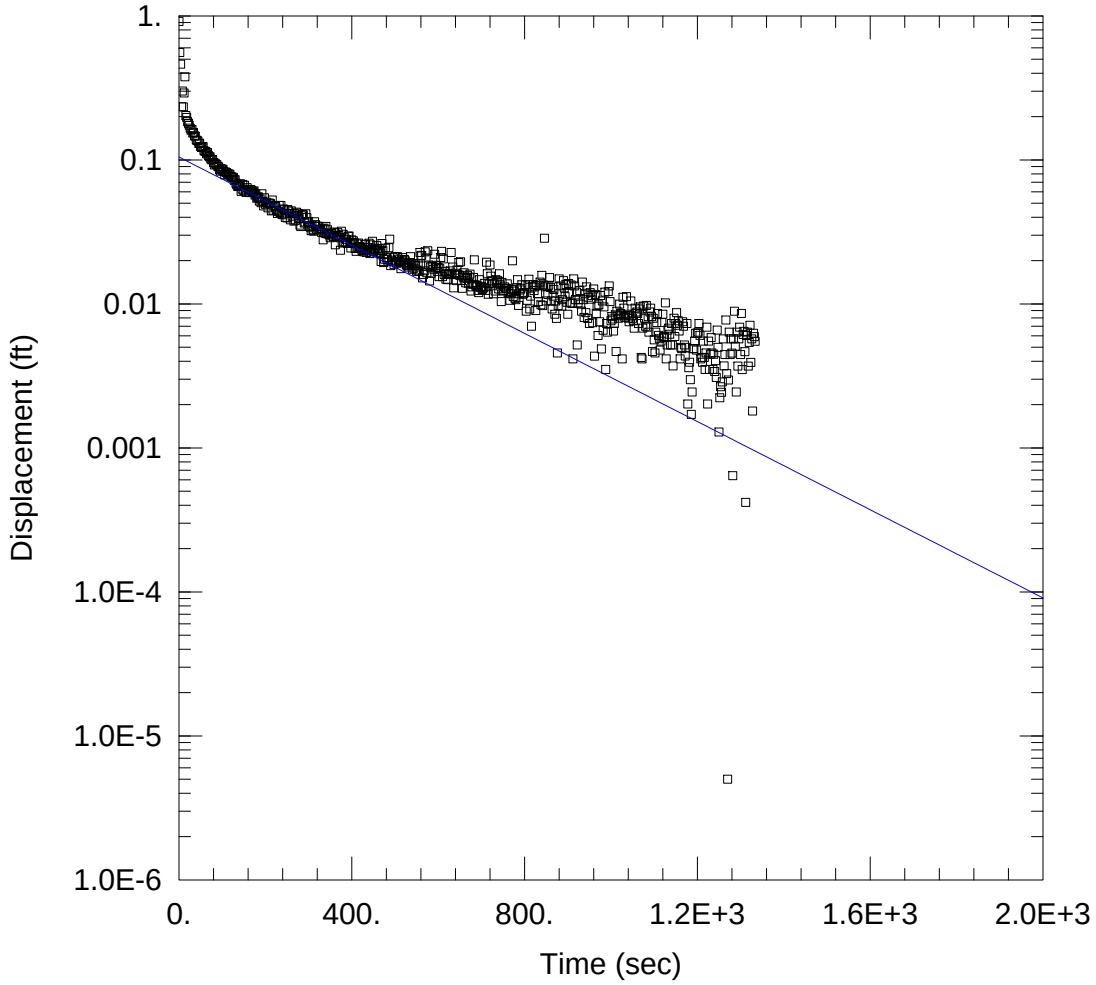
WELL DATA (MW-10)

Initial Displacement: 1.31 ft Static Water Column Height: 24.67 ft
Total Well Penetration Depth: 24.67 ft Screen Length: 10. ft
Casing Radius: 0.08 ft Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

K = 2.005E-6 m/sec y0 = 0.1464 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit MW-10-2.aqt
Date: 06/19/14 Time: 15:35:00

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-10
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 22. ft Anisotropy Ratio (Kz/Kr): 1.

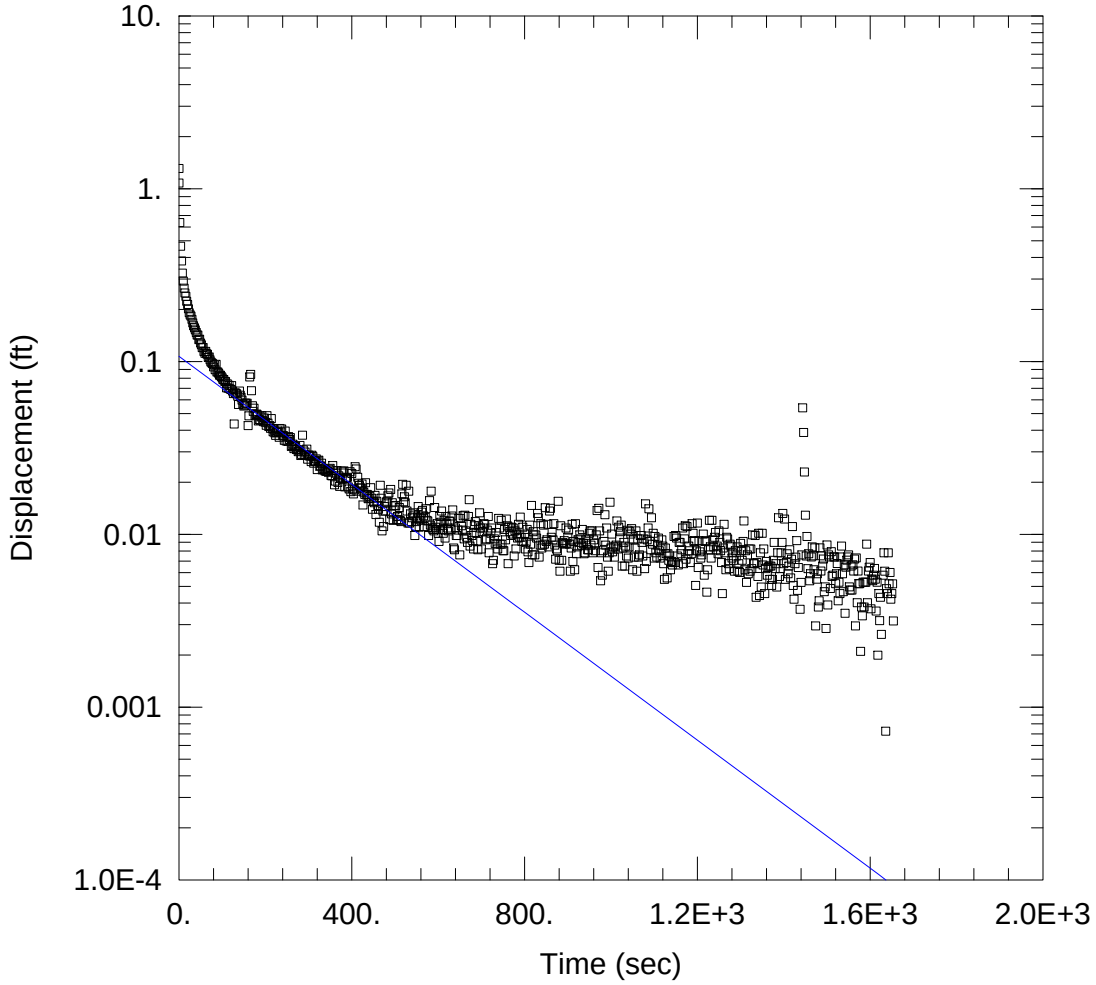
WELL DATA (MW-10)

Initial Displacement: 1.31 ft
Total Well Penetration Depth: 24.67 ft
Casing Radius: 0.08 ft
Static Water Column Height: 24.67 ft
Screen Length: 10. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 1.103E-6 m/sec
y0 = 0.1047 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit MW-10-3.aqt
Date: 06/19/14 Time: 15:38:47

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-10
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 22. ft Anisotropy Ratio (Kz/Kr): 1.

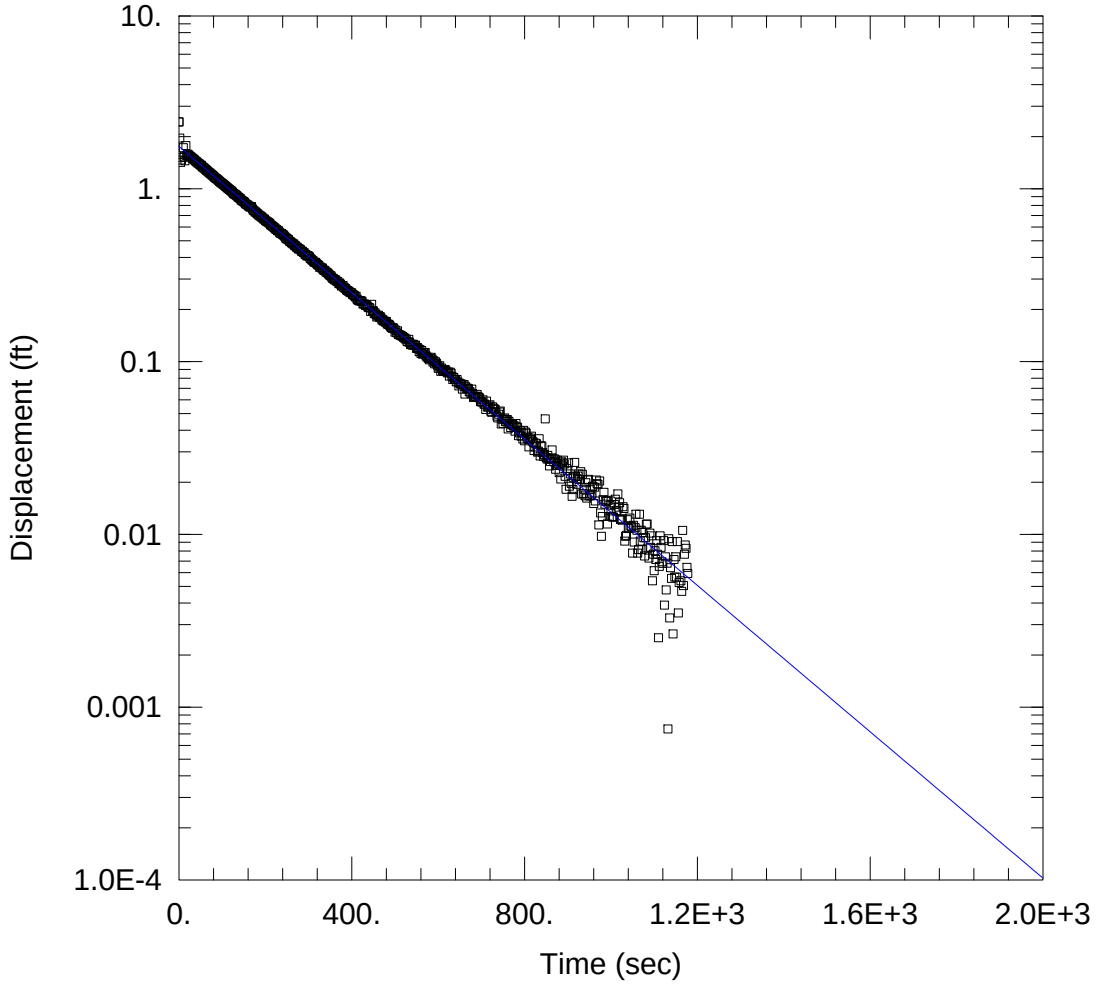
WELL DATA (MW-10)

Initial Displacement: 1.31 ft Static Water Column Height: 24.67 ft
Total Well Penetration Depth: 24.67 ft Screen Length: 10. ft
Casing Radius: 0.08 ft Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

K = 1.334E-6 m/sec y0 = 0.1072 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit-MW-11-1.aqt
Date: 06/19/14 Time: 16:01:10

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-11
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 22.79 ft Anisotropy Ratio (Kz/Kr): 1.

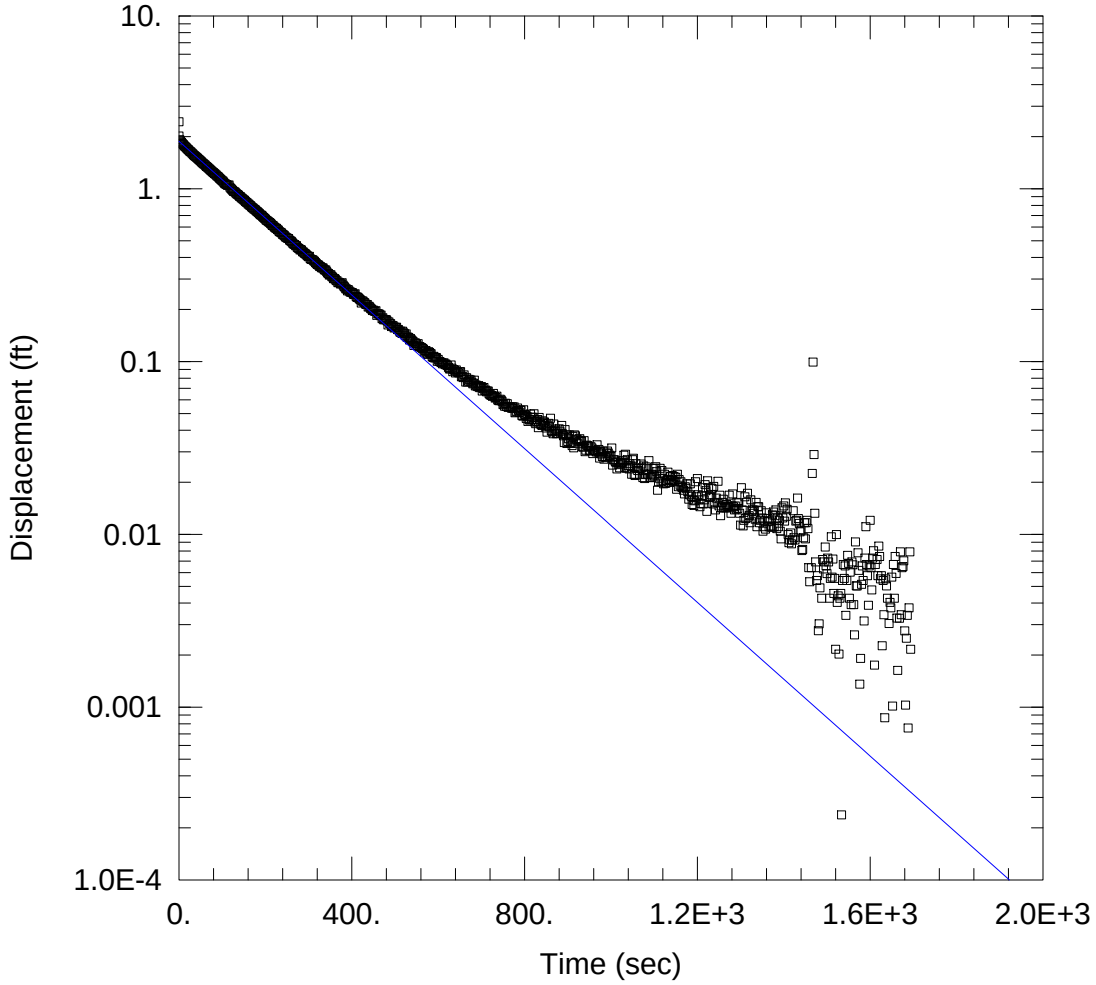
WELL DATA (MW-11)

Initial Displacement: 2.44 ft
Total Well Penetration Depth: 22.79 ft
Casing Radius: 0.08 ft
Static Water Column Height: 22.79 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.033E-6 m/sec
y0 = 1.757 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit-MW-11-2.aqt
Date: 06/19/14 Time: 16:08:17

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-11
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 22.79 ft Anisotropy Ratio (Kz/Kr): 1.

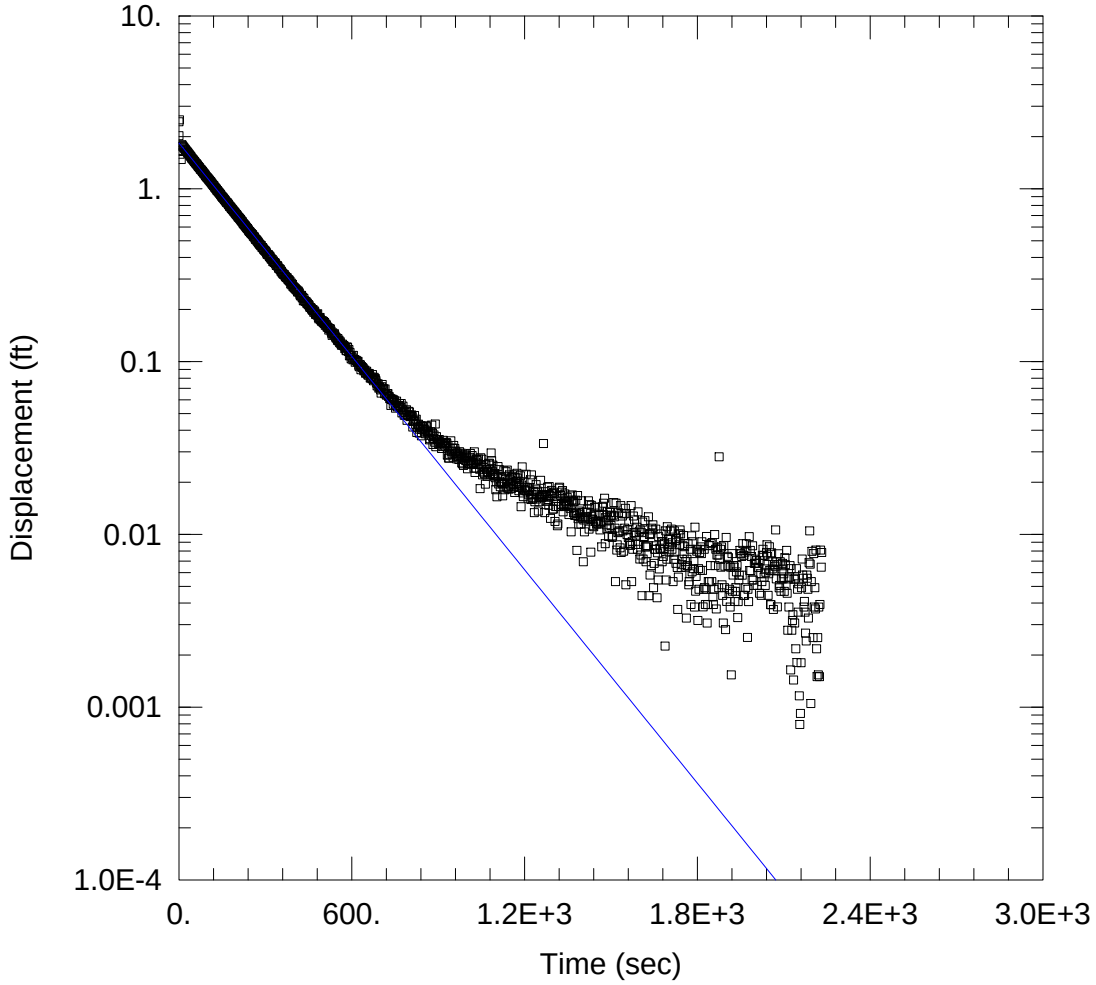
WELL DATA (MW-11)

Initial Displacement: 2.44 ft
Total Well Penetration Depth: 22.79 ft
Casing Radius: 0.08 ft
Static Water Column Height: 22.79 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.085E-6 m/sec
y0 = 1.882 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit-MW-11-3.aqt
Date: 06/19/14 Time: 16:17:58

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-11
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 22.79 ft Anisotropy Ratio (Kz/Kr): 1.

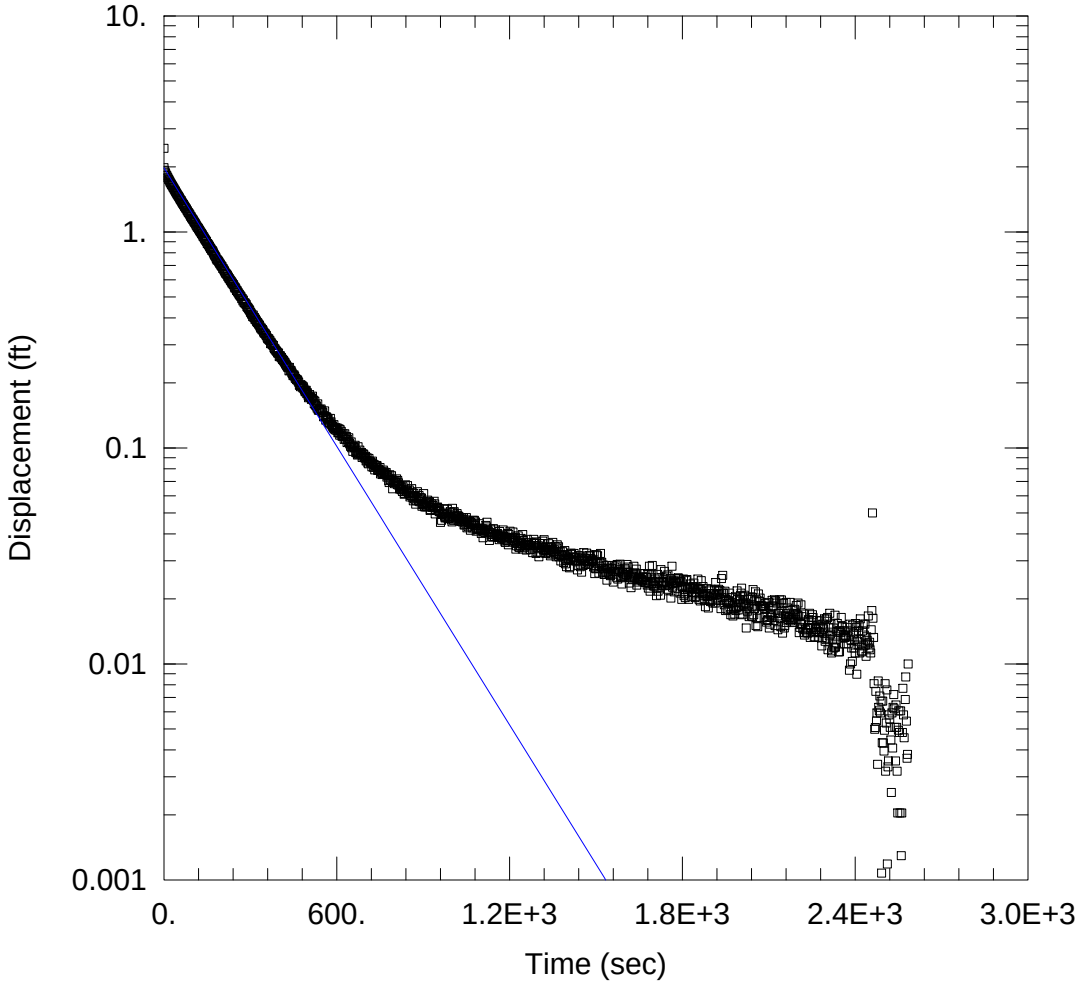
WELL DATA (MW-11)

Initial Displacement: 2.44 ft
Total Well Penetration Depth: 22.79 ft
Casing Radius: 0.08 ft
Static Water Column Height: 22.79 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.004E-6 m/sec
y0 = 1.839 ft



WELL TEST ANALYSIS

Data Set: C:\...\Whit-MW-11-4.aqt
Date: 06/19/14 Time: 16:25:10

PROJECT INFORMATION

Company: ERM
Client: ECI-Whitsett
Location: NC
Test Well: MW-11
Test Date: 5/2014

AQUIFER DATA

Saturated Thickness: 22.79 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-11)

Initial Displacement: 2.44 ft
Total Well Penetration Depth: 22.79 ft
Casing Radius: 0.08 ft
Static Water Column Height: 22.79 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.049E-6 m/sec
y0 = 1.978 ft

ECI - Whitsett

Slug Test Results - 6/2014

Well No.	K (m/sec)	K (ft/day)	K (ft/day)
MW-4	1.25E-07	3.535E-02	0.0353
	2.03E-07	5.740E-02	0.0574
MW-9	6.47E-08	1.834E-02	0.0183
	4.12E-08	1.167E-02	0.0117
MW-10	2.01E-06	5.683E-01	0.5683
	1.10E-06	3.127E-01	0.3127
	1.33E-06	3.781E-01	0.3781
MW-11	1.03E-06	2.928E-01	0.2928
	1.09E-06	3.076E-01	0.3076
	1.00E-06	2.846E-01	0.2846
	1.05E-06	2.974E-01	0.2974

APPENDIX E
LABORATORY ANALYTICAL REPORTS

Southeast ACCUTEST LABORATORIES

05/23/14

Technical Report for

ERM

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Accutest Job Number: FA15066

Sampling Date: 05/15/14

Report to:

ERM
1130 Situs Court Suite 250
Raleigh, NC 27606
gregory.kanellis@erm.com; Lane.Dorman@erm.com;
Robert.Laumann@erm.com
ATTN: Lane Dorman

Total number of pages in report: **65**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

ERM

Job No: FA15066

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15066-1	05/15/14	11:45	RMGR	05/16/14	AQ	Ground Water	MW-9
FA15066-2	05/15/14	13:45	RMGR	05/16/14	AQ	Ground Water	MW-10
FA15066-2A	05/15/14	13:45	RMGR	05/16/14	AQ	Ground Water	MW-10
FA15066-3	05/15/14	15:05	RMGR	05/16/14	AQ	Ground Water	MW-1
FA15066-4	05/15/14	15:00	RMGR	05/16/14	AQ	Ground Water	MW-3
FA15066-4F	05/15/14	15:00	RMGR	05/16/14	AQ	Groundwater Filtered	MW-3
FA15066-5	05/15/14	00:00	RMGR	05/16/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA15066
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/15/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15066-1	**MW-9**					
cis-1,2-Dichloroethylene		0.41 J	1.0	0.33	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.23 J	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		8.6	1.0	0.30	ug/l	SW846 8260B
FA15066-2	**MW-10**					
Trichloroethylene		3.0	1.0	0.30	ug/l	SW846 8260B
1,4-Dioxane		0.49 J	1.0	0.30	ug/l	SW846 8260B BY SIM
Total TIC, Volatile		50 J			ug/l	
FA15066-2A	**MW-10**					
Iron		92.6 B	300	17	ug/l	SW846 6010C
Manganese		159	15	1.0	ug/l	SW846 6010C
Nitrogen, Nitrate		1.7	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		25.3	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		0.86 B	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA15066-3	**MW-1**					
1,2-Dichloroethane		0.66 J	1.0	0.24	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.60 J	1.0	0.33	ug/l	SW846 8260B
Ethylbenzene		0.50 J	1.0	0.28	ug/l	SW846 8260B
Toluene		0.28 J	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		13.9	1.0	0.30	ug/l	SW846 8260B
m,p-Xylene		1.4 J	2.0	0.48	ug/l	SW846 8260B
o-Xylene		1.1	1.0	0.20	ug/l	SW846 8260B
1,4-Dioxane		0.42 J	1.0	0.30	ug/l	SW846 8260B BY SIM
Total TIC, Volatile		79 J			ug/l	
Iron		1950	300	17	ug/l	SW846 6010C
Manganese		467	15	1.0	ug/l	SW846 6010C
Sulfate		30.7	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		1.8	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA15066-4	**MW-3**					
Toluene		0.23 J	1.0	0.20	ug/l	SW846 8260B
Total TIC, Volatile		43 J			ug/l	
Iron		98.2 B	300	17	ug/l	SW846 6010C
Manganese		13.0 B	15	1.0	ug/l	SW846 6010C
Nitrogen, Nitrate		1.9	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		32.7	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		0.54 B	1.0	0.23	mg/l	SM5310 B-11/SW9060A

Summary of Hits

Job Number: FA15066
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/15/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15066-4F	**MW-3**					
Manganese		2.8 B	15	1.0	ug/l	SW846 6010C
FA15066-5	**TRIP BLANK**					
Total TIC, Volatile		60 J			ug/l	

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA15066-1	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25708.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2 [a]	Z25682.D	1	05/19/14	DP	n/a	n/a	VZ1004

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	99%	74-125%
2037-26-5	Toluene-D8	100%	112% [b]	88-111%

(a) Confirmation run.
(b) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA15066-1	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M74448.D	1	05/20/14	RB	n/a	n/a	VM3146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.41	1.0	0.33	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA15066-1	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.23	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	8.6	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA15066-1	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA15066-2	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25710.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.49	1.0	0.30	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA15066-2	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M74449.D	1	05/20/14	RB	n/a	n/a	VM3146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA15066-2	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	3.0	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA15066-2	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
6630-30-4	2,4(1H,3H)-Pyrimidinedione, 6-chloro-5-n	5.71	50	ug/l	JN
	Total TIC, Volatile		50	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA15066-2A	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	92.6 B	300	17	ug/l	1	05/19/14	05/19/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	159	15	1.0	ug/l	1	05/19/14	05/19/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11607
(2) Prep QC Batch: MP27271

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA15066-2A	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	1.7	0.10	0.050	mg/l	1	05/16/14 20:31	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	05/16/14 20:31	CH	EPA 300/SW846 9056A
Sulfate	25.3	2.0	0.60	mg/l	1	05/16/14 20:31	CH	EPA 300/SW846 9056A
Sulfite [a]	1.5 U	3.0	1.5	mg/l	1	05/16/14 15:15	LE	SM4500SO3 B-11
Total Organic Carbon	0.86 B	1.0	0.23	mg/l	1	05/21/14 22:26	FN	SM5310 B-11/SW9060A

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA15066-3	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25684.D	1	05/19/14	DP	n/a	n/a	VZ1004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.42	1.0	0.30	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		74-125%
2037-26-5	Toluene-D8	110%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA15066-3	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M74450.D	1	05/20/14	RB	n/a	n/a	VM3146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	0.66	1.0	0.24	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.60	1.0	0.33	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA15066-3	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.50	1.0	0.28	ug/l	J
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.28	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	13.9	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	1.4	2.0	0.48	ug/l	J
95-47-6	o-Xylene	1.1	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA15066-3	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1000090-58-9	1-Chloro-2-methyl-1-morpholino-1,3-butad	2.59	79	ug/l	JN
	Total TIC, Volatile		79	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA15066-3	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1950	300	17	ug/l	1	05/19/14	05/19/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	467	15	1.0	ug/l	1	05/19/14	05/19/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11607
(2) Prep QC Batch: MP27271

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA15066-3	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	05/16/14 20:48	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	05/16/14 20:48	CH	EPA 300/SW846 9056A
Sulfate	30.7	2.0	0.60	mg/l	1	05/16/14 20:48	CH	EPA 300/SW846 9056A
Sulfite [a]	1.5 U	3.0	1.5	mg/l	1	05/16/14 15:15	LE	SM4500SO3 B-11
Total Organic Carbon	1.8	1.0	0.23	mg/l	1	05/21/14 22:41	FN	SM5310 B-11/SW9060A

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA15066-4	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25711.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA15066-4	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M74451.D	1	05/20/14	RB	n/a	n/a	VM3146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA15066-4	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.23	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA15066-4	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
19047-79-1	Carbamodithioic acid, dipropyl-, propyl	2.50	43	ug/l	JN
	Total TIC, Volatile		43	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA15066-4	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	98.2 B	300	17	ug/l	1	05/19/14	05/19/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	13.0 B	15	1.0	ug/l	1	05/19/14	05/19/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11607
(2) Prep QC Batch: MP27271

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA15066-4	**Date Sampled:**	05/15/14
Matrix:	AQ - Ground Water	**Date Received:**	05/16/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	1.9	0.10	0.050	mg/l	1	05/16/14 21:05	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	05/16/14 21:05	CH	EPA 300/SW846 9056A
Sulfate	32.7	2.0	0.60	mg/l	1	05/16/14 21:05	CH	EPA 300/SW846 9056A
Sulfite [a]	1.5 U	3.0	1.5	mg/l	1	05/16/14 15:15	LE	SM4500SO3 B-11
Total Organic Carbon	0.54 B	1.0	0.23	mg/l	1	05/21/14 22:55	FN	SM5310 B-11/SW9060A

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA15066-4F	**Date Sampled:**	05/15/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/16/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2.8 B	15	1.0	ug/l	1	05/19/14	05/19/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11607
(2) Prep QC Batch: MP27271

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15066-5	**Date Sampled:**	05/15/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/16/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25686.D	1	05/19/14	DP	n/a	n/a	VZ1004
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		74-125%
2037-26-5	Toluene-D8	111%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15066-5	**Date Sampled:**	05/15/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M74452.D	1	05/20/14	RB	n/a	n/a	VM3146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15066-5	**Date Sampled:**	05/15/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15066-5	**Date Sampled:**	05/15/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/16/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
127-07-1	Hydroxyurea	3.21	60	ug/l	JN
	Total TIC, Volatile		60	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB #: FA15066

PAGE 1 OF 1

Accutest Quote #:

SKIFF#:

Client / Reporting Information

Company Name: ERM
Address: 1130 S. Tryon St. Suite 250
City: Raleigh State: NC Zip: 27606
Project Contact: E-mail: Lane.Dorman@erm.com
Phone#: 919-233-4501
Sampler(s) Name(s) (Printed): Greg Kanellis

Project Information

Project Name: ECI Whitsett
Street: 1239 Rock Creek Dairy Rd.
City: Whitsett State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	VOC 8260 + 10 TICs	1,4 Dioxane 8260 SIM	Total Mn, Fe	Dissolved Mn, Fe (Field Filtered)	Sulfate, Sulfide, Nitrate, Nitrite	TOC
1	MW-9	5/15/14	1145	RM	GW	6			6							X	X				
2	MW-10		1345	GK		10		1	8		1					X	X	X		X	X
3	MW-1		1505	RM		10		1	8		1					X	X	X		X	X
4	MW-3		1500	GK		11		1	8							X	X	X	X	X	X
5	Trip Blank-1		-	-	WW	~~3~~ 2			2							X	X				

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [x] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

RALEIGH, NC

SVC CENTER

Comments / Remarks

3-day TAT on MW-10 and MW-9
VOCs and 1,4 Dioxane only.
STD TAT on the rest

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	5/15/14 1645	2 Brent Porter	3 Brent Porter	5/15/14 1720	4 FX
Relinquished by: 5 FX 051614	Date Time: 1015	Received By: 6 [signature]	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.2

4.1 4

FA15066: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15066 CLIENT: ERM PROJECT: ELF Whitsett

DATE/TIME RECEIVED: 05-16-14 10:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7988 7797 7680

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 18
- [ ] CORRECTED TEMPS: 22

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [x] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [x] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Sample's 1, 3, 4 (Clear) Vial have Macro Bubble. Sample #2 1 Broken foc

TECHNICIAN SIGNATURE/DATE [signature] 05-16-14 REVIEWER SIGNATURE/DATE [signature] 05/16/14

RS 04/14 receipt confirmation 041514.xls

4.1

4

FA15066: Chain of Custody
Page 2 of 3

From: (919) 208-7171
Brent Rader
Accutest Labs Southeast
6308 - C Angus Drive

Raleigh, NC 27617

Origin ID: RZZA

FedEx Express

J14101402070326

Ship Date: 15MAY14
ActWgt: 15.0 LB
CAD: 9855222/INET3490

Delivery Address Bar Code

SHIP TO: (407) 425-6700
BILL SENDER

Sample Receiving
Accutest SE
4405 VINELAND RD.
STE. C15
ORLANDO, FL 32811

Ref #
Invoice #
PO #
Dept #

FRI - 16 MAY AA
STANDARD OVERNIGHT

TRK# 0201 7988 7797 7680

XH TIXA

32811
FL-US
MCO

RT 267 5 B
ST F1 7680 05.16

FA15066: Chain of Custody

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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1004-MB	Z25667.D	1	05/19/14	DP	n/a	n/a	VZ1004

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15066-3, FA15066-5

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	101%	74-125%
2037-26-5	Toluene-D8	108%	88-111%

Method Blank Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1005-MB	Z25706.D	1	05/20/14	KW	n/a	n/a	VZ1005

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15066-1, FA15066-2, FA15066-4

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

Method Blank Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3146-MB	M74443.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3146-MB	M74443.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3146-MB	M74443.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
135200-64-5	Imidazole, 5-[2-(aminocarbonyl)vinyl]-	2.59	52	ug/l	JN
66-25-1	Hexanal	2.64	47	ug/l	JN
1000126-42-1	Pyrido[3,4-d]imidazole, 1,6-bi[hydroxyca	3.52	46	ug/l	JN
	Total TIC, Volatile		145	ug/l	J

Blank Spike Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1004-BS	Z25665.D	1	05/19/14	DP	n/a	n/a	VZ1004

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15066-3, FA15066-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	41.0	82	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	99%	74-125%
2037-26-5	Toluene-D8	109%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1005-BS	Z25705.D	1	05/20/14	KW	n/a	n/a	VZ1005

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15066-1, FA15066-2, FA15066-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	43.0	86	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	99%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3146-BS	M74441.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	158	126	50-147
107-02-8	Acrolein	125	133	106	31-154
107-13-1	Acrylonitrile	125	119	95	58-126
71-43-2	Benzene	25	25.3	101	81-122
108-86-1	Bromobenzene	25	24.0	96	80-121
74-97-5	Bromochloromethane	25	23.0	92	76-123
75-27-4	Bromodichloromethane	25	23.3	93	79-123
75-25-2	Bromoform	25	23.9	96	66-123
104-51-8	n-Butylbenzene	25	25.8	103	79-126
135-98-8	sec-Butylbenzene	25	29.7	119	83-133
98-06-6	tert-Butylbenzene	25	28.3	113	80-133
108-90-7	Chlorobenzene	25	26.6	106	82-124
75-00-3	Chloroethane	25	26.4	106	62-144
67-66-3	Chloroform	25	23.9	96	80-124
95-49-8	o-Chlorotoluene	25	27.5	110	81-127
106-43-4	p-Chlorotoluene	25	27.9	112	83-130
110-75-8	2-Chloroethyl vinyl ether	125	117	94	56-122
75-15-0	Carbon disulfide	25	27.1	108	66-148
56-23-5	Carbon tetrachloride	25	24.3	97	76-136
75-34-3	1,1-Dichloroethane	25	25.3	101	81-122
75-35-4	1,1-Dichloroethylene	25	29.1	116	78-137
563-58-6	1,1-Dichloropropene	25	28.4	114	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	23.6	94	64-123
106-93-4	1,2-Dibromoethane	25	25.1	100	75-120
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
78-87-5	1,2-Dichloropropane	25	24.8	99	76-124
142-28-9	1,3-Dichloropropane	25	25.3	101	80-118
594-20-7	2,2-Dichloropropane	25	27.2	109	74-139
124-48-1	Dibromochloromethane	25	24.3	97	78-122
75-71-8	Dichlorodifluoromethane	25	34.0	136	42-167
156-59-2	cis-1,2-Dichloroethylene	25	23.9	96	78-120
10061-01-5	cis-1,3-Dichloropropene	25	23.5	94	75-118
541-73-1	m-Dichlorobenzene	25	27.7	111	84-125
95-50-1	o-Dichlorobenzene	25	26.1	104	82-124
106-46-7	p-Dichlorobenzene	25	24.3	97	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.5	102	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3146-BS	M74441.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	80-120
100-41-4	Ethylbenzene	25	25.4	102	81-121
591-78-6	2-Hexanone	125	137	110	61-129
87-68-3	Hexachlorobutadiene	25	26.5	106	75-142
98-82-8	Isopropylbenzene	25	28.0	112	83-132
99-87-6	p-Isopropyltoluene	25	28.5	114	79-130
108-10-1	4-Methyl-2-pentanone	125	135	108	66-122
74-83-9	Methyl bromide	25	28.3	113	59-143
74-87-3	Methyl chloride	25	27.6	110	50-159
74-95-3	Methylene bromide	25	23.4	94	78-119
75-09-2	Methylene chloride	25	26.8	107	69-135
78-93-3	Methyl ethyl ketone	125	125	100	56-143
1634-04-4	Methyl Tert Butyl Ether	25	25.4	102	72-117
91-20-3	Naphthalene	25	25.5	102	63-132
103-65-1	n-Propylbenzene	25	29.3	117	82-133
100-42-5	Styrene	25	24.7	99	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	24.6	98	77-122
71-55-6	1,1,1-Trichloroethane	25	25.2	101	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	25.3	101	72-120
79-00-5	1,1,2-Trichloroethane	25	24.5	98	76-119
87-61-6	1,2,3-Trichlorobenzene	25	25.4	102	68-131
96-18-4	1,2,3-Trichloropropane	25	26.9	108	77-120
120-82-1	1,2,4-Trichlorobenzene	25	25.4	102	73-129
95-63-6	1,2,4-Trimethylbenzene	25	25.3	101	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.9	104	79-120
127-18-4	Tetrachloroethylene	25	27.5	110	76-135
108-88-3	Toluene	25	24.9	100	80-120
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-69-4	Trichlorofluoromethane	25	27.8	111	71-156
75-01-4	Vinyl chloride	25	30.0	120	69-159
108-05-4	Vinyl Acetate	125	137	110	43-154
	m,p-Xylene	50	55.1	110	79-126
95-47-6	o-Xylene	25	27.4	110	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3146-BS	M74441.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15066-1MS	Z25687.D	1	05/19/14	DP	n/a	n/a	VZ1004
FA15066-1MSD	Z25688.D	1	05/19/14	DP	n/a	n/a	VZ1004
FA15066-1 [a]	Z25682.D	1	05/19/14	DP	n/a	n/a	VZ1004

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15066-3, FA15066-5

CAS No.	Compound	FA15066-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	1.1		50	38.7	75	50	40.0	78	3	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA15066-1	Limits
17060-07-0	1,2-Dichloroethane-D4	96%	95%	99%	74-125%
2037-26-5	Toluene-D8	111%	110%	112%* [b]	88-111%

(a) Confirmation run.
(b) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14985-1MS	Z25725.D	1	05/20/14	KW	n/a	n/a	VZ1005
FA14985-1MSD	Z25726.D	1	05/20/14	KW	n/a	n/a	VZ1005
FA14985-1	Z25716.D	1	05/20/14	KW	n/a	n/a	VZ1005

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15066-1, FA15066-2, FA15066-4

CAS No.	Compound	FA14985-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	24.5		50	67.3	86	50	70.6	92	5	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA14985-1	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	100%	102%	74-125%
2037-26-5	Toluene-D8	100%	100%	100%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14954-2MS	M74467.D	1	05/20/14	RB	n/a	n/a	VM3146
FA14954-2MSD	M74468.D	1	05/20/14	RB	n/a	n/a	VM3146
FA14954-2	M74446.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Compound	FA14954-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25	U	125	87.9	70	125	91.5	73	4	50-147/21
107-02-8	Acrolein	20	U	125	103	82	125	105	84	2	31-154/29
107-13-1	Acrylonitrile	10	U	125	115	92	125	120	96	4	58-126/16
71-43-2	Benzene	1.0	U	25	27.2	109	25	27.3	109	0	81-122/14
108-86-1	Bromobenzene	1.0	U	25	27.1	108	25	26.5	106	2	80-121/14
74-97-5	Bromochloromethane	1.0	U	25	28.0	112	25	27.6	110	1	76-123/14
75-27-4	Bromodichloromethane	1.0	U	25	25.8	103	25	25.8	103	0	79-123/19
75-25-2	Bromoform	1.0	U	25	23.4	94	25	23.0	92	2	66-123/21
104-51-8	n-Butylbenzene	1.0	U	25	26.6	106	25	25.9	104	3	79-126/16
135-98-8	sec-Butylbenzene	1.0	U	25	31.2	125	25	30.0	120	4	83-133/16
98-06-6	tert-Butylbenzene	1.0	U	25	29.8	119	25	28.4	114	5	80-133/16
108-90-7	Chlorobenzene	1.0	U	25	28.8	115	25	27.9	112	3	82-124/14
75-00-3	Chloroethane	2.0	U	25	22.8	91	25	22.5	90	1	62-144/20
67-66-3	Chloroform	1.0	U	25	26.0	104	25	24.9	100	4	80-124/15
95-49-8	o-Chlorotoluene	1.0	U	25	28.7	115	25	27.1	108	6	81-127/15
106-43-4	p-Chlorotoluene	1.0	U	25	30.2	121	25	29.8	119	1	83-130/15
110-75-8	2-Chloroethyl vinyl ether	5.0	U	125	ND	0*	125	ND	0*	nc	56-122/23
75-15-0	Carbon disulfide	2.0	U	25	23.9	96	25	19.7	79	19	66-148/23
56-23-5	Carbon tetrachloride	1.0	U	25	26.8	107	25	26.3	105	2	76-136/23
75-34-3	1,1-Dichloroethane	1.0	U	25	26.8	107	25	26.4	106	2	81-122/15
75-35-4	1,1-Dichloroethylene	1.0	U	25	30.8	123	25	30.2	121	2	78-137/18
563-58-6	1,1-Dichloropropene	1.0	U	25	30.9	124	25	29.0	116	6	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	25	26.9	108	25	28.9	116	7	64-123/18
106-93-4	1,2-Dibromoethane	1.0	U	25	27.1	108	25	27.4	110	1	75-120/13
107-06-2	1,2-Dichloroethane	1.0	U	25	25.7	103	25	25.9	104	1	75-125/14
78-87-5	1,2-Dichloropropane	1.0	U	25	25.6	102	25	25.0	100	2	76-124/14
142-28-9	1,3-Dichloropropane	1.0	U	25	26.4	106	25	26.1	104	1	80-118/13
594-20-7	2,2-Dichloropropane	1.0	U	25	28.9	116	25	28.9	116	0	74-139/17
124-48-1	Dibromochloromethane	1.0	U	25	23.7	95	25	24.1	96	2	78-122/19
75-71-8	Dichlorodifluoromethane	2.0	U	25	31.6	126	25	31.1	124	2	42-167/19
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	25.9	104	25	26.1	104	1	78-120/15
10061-01-5	cis-1,3-Dichloropropene	1.0	U	25	21.3	85	25	21.1	84	1	75-118/23
541-73-1	m-Dichlorobenzene	1.0	U	25	30.2	121	25	29.2	117	3	84-125/14
95-50-1	o-Dichlorobenzene	1.0	U	25	29.3	117	25	28.6	114	2	82-124/14
106-46-7	p-Dichlorobenzene	1.0	U	25	26.4	106	25	25.7	103	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	27.1	108	25	25.9	104	5	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14954-2MS	M74467.D	1	05/20/14	RB	n/a	n/a	VM3146
FA14954-2MSD	M74468.D	1	05/20/14	RB	n/a	n/a	VM3146
FA14954-2	M74446.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Compound	FA14954-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	23.3	93	25	24.0	96	3	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	26.5	106	25	26.0	104	2	81-121/14
591-78-6	2-Hexanone	10 U		125	110	88	125	115	92	4	61-129/18
87-68-3	Hexachlorobutadiene	2.0 U		25	25.9	104	25	26.2	105	1	75-142/19
98-82-8	Isopropylbenzene	1.0 U		25	29.4	118	25	28.7	115	2	83-132/15
99-87-6	p-Isopropyltoluene	1.0 U		25	30.2	121	25	29.2	117	3	79-130/16
108-10-1	4-Methyl-2-pentanone	5.0 U		125	137	110	125	139	111	1	66-122/16
74-83-9	Methyl bromide	2.0 U		25	28.9	116	25	27.1	108	6	59-143/19
74-87-3	Methyl chloride	2.0 U		25	28.8	115	25	27.2	109	6	50-159/19
74-95-3	Methylene bromide	2.0 U		25	25.0	100	25	26.1	104	4	78-119/14
75-09-2	Methylene chloride	5.0 U		25	29.5	118	25	28.1	112	5	69-135/16
78-93-3	Methyl ethyl ketone	5.0 U		125	98.4	79	125	98.4	79	0	56-143/18
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	26.1	104	25	26.0	104	0	72-117/14
91-20-3	Naphthalene	5.0 U		25	23.7	95	25	25.7	103	8	63-132/25
103-65-1	n-Propylbenzene	1.0 U		25	30.9	124	25	30.3	121	2	82-133/15
100-42-5	Styrene	1.0 U		25	24.3	97	25	23.9	96	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	25.7	103	25	25.1	100	2	77-122/19
71-55-6	1,1,1-Trichloroethane	1.0 U		25	28.4	114	25	27.4	110	4	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	28.7	115	25	28.0	112	2	72-120/14
79-00-5	1,1,2-Trichloroethane	1.0 U		25	27.2	109	25	25.9	104	5	76-119/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	24.9	100	25	26.2	105	5	68-131/25
96-18-4	1,2,3-Trichloropropane	2.0 U		25	28.3	113	25	28.2	113	0	77-120/16
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	24.5	98	25	24.5	98	0	73-129/20
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	26.5	106	25	26.2	105	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	27.4	110	25	25.8	103	6	79-120/19
127-18-4	Tetrachloroethylene	1.0 U		25	28.1	112	25	27.8	111	1	76-135/16
108-88-3	Toluene	1.0 U		25	25.9	104	25	26.0	104	0	80-120/14
79-01-6	Trichloroethylene	1.0 U		25	29.4	118	25	26.5	106	10	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		25	30.3	121	25	28.8	115	5	71-156/21
75-01-4	Vinyl chloride	1.0 U		25	29.5	118	25	28.4	114	4	69-159/18
108-05-4	Vinyl Acetate	10 U		125	139	111	125	138	110	1	43-154/14
	m,p-Xylene	2.0 U		50	58.0	116	50	57.6	115	1	79-126/15
95-47-6	o-Xylene	1.0 U		25	27.9	112	25	27.5	110	1	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15066
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14954-2MS	M74467.D	1	05/20/14	RB	n/a	n/a	VM3146
FA14954-2MSD	M74468.D	1	05/20/14	RB	n/a	n/a	VM3146
FA14954-2	M74446.D	1	05/20/14	RB	n/a	n/a	VM3146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15066-1, FA15066-2, FA15066-3, FA15066-4, FA15066-5

CAS No.	Surrogate Recoveries	MS	MSD	FA14954-2	Limits
1868-53-7	Dibromofluoromethane	103%	100%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	103%	99%	79-125%
2037-26-5	Toluene-D8	95%	97%	100%	85-112%
460-00-4	4-Bromofluorobenzene	96%	95%	96%	83-118%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27271
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					05/19/14		05/19/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	2	2.3				
Arsenic	10	2	2.4				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	17	17	-2.0	<300	-0.90	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	-0.10	<15	0.0	<15
Molybdenum	50	.5	.5				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2.3	2.3				
Silver	10	.65	.77				
Sodium	10000	500	500				
Strontium	10	.4	.4				
Thallium	10	1.5	2				
Tin	50	.7	1				
Titanium	10	.9	1				
Vanadium	50	.5	.5				
Zinc	20	3	3				

Associated samples MP27271: FA15066-3, FA15066-4, FA15066-2A, FA15066-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27271
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/19/14 05/19/14

Metal	FA15042-1F Original	DUP	RPD	QC Limits	FA15042-1F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	483	466	3.6	0-20	483	27400	26000	103.5	80-120
Lead	anr								
Magnesium									
Manganese	19.2	18.9	1.6	0-20	19.2	569	500	110.0	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP27271: FA15066-3, FA15066-4, FA15066-2A, FA15066-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27271
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/19/14

Metal	FA15042-1F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	483	27500	26000	103.9	0.4	20
Lead	anr					
Magnesium						
Manganese	19.2	571	500	110.4	0.4	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP27271: FA15066-3, FA15066-4, FA15066-2A, FA15066-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27271
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/19/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	27200	26000	104.6	80-120
Lead	anr			
Magnesium				
Manganese	559	500	111.8	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27271: FA15066-3, FA15066-4, FA15066-2A, FA15066-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27271
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/19/14

Metal	FA15042-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	483	450	6.8	0-10
Lead	anr			
Magnesium				
Manganese	19.2	18.2	5.2	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27271: FA15066-3, FA15066-4, FA15066-2A, FA15066-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27271
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/19/14

Metal	Sample ml	Final ml	FA15042-1F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	482.9	473.242	3579	0.2	150	3000	103.5	80-120
Lead										
Magnesium										
Manganese	9.8	10	19.2	18.816	74.5	0.2	2.5	50	111.4	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27271: FA15066-3, FA15066-4, FA15066-2A, FA15066-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP24020/GN61483	2.0	0.0	mg/l	50	50.6	101.2	90-110%
Nitrogen, Nitrate	GP24020/GN61483	0.10	0.0	mg/l	2.5	2.44	97.6	90-110%
Sulfate	GP24020/GN61483	2.0	0.0	mg/l	50	49.9	99.8	90-110%
Sulfite	GN61482	3.0	0.0	mg/l	34.5mg/l	34.5	100.0	80-120%
Total Organic Carbon	GP24043/GN61535	1.0	0.0	mg/l	15	16.1	107.3	90-110%

Associated Samples:
Batch GN61482: FA15066-3, FA15066-4, FA15066-2A
Batch GP24020: FA15066-3, FA15066-4, FA15066-2A
Batch GP24043: FA15066-3, FA15066-4, FA15066-2A
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Total Organic Carbon	GP24043/GN61535	FA15149-1	mg/l	0.23 B	0.0	200.0(a)	0-20%

Associated Samples:
Batch GP24043: FA15066-3, FA15066-4, FA15066-2A
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP24020/GN61483	FA15052-5	mg/l	4.5	50	54.6	100.2	90-110%
Nitrogen, Nitrate	GP24020/GN61483	FA15052-5	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Sulfate	GP24020/GN61483	FA15052-5	mg/l	5.3	50	53.1	95.6	90-110%
Sulfite	GN61482	FA15066-4	mg/l	1.5 U	34.5	35.0	101.0	75-125%
Total Organic Carbon	GP24043/GN61535	FA15149-1	mg/l	0.23 B	15	17.8	117.1N(a)	90-110%

Associated Samples:
Batch GN61482: FA15066-3, FA15066-4, FA15066-2A
Batch GP24020: FA15066-3, FA15066-4, FA15066-2A
Batch GP24043: FA15066-3, FA15066-4, FA15066-2A
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15066
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP24020/GN61483	FA15052-5	mg/l	4.5	50	54.5	0.2	20%
Nitrogen, Nitrate	GP24020/GN61483	FA15052-5	mg/l	0.050 U	2.5	2.3	4.3	20%
Sulfate	GP24020/GN61483	FA15052-5	mg/l	5.3	50	53.5	0.8	20%
Sulfite	GN61482	FA15066-4	mg/l	1.5 U	34.5mg/l	33.5	4.4	

Associated Samples:
Batch GN61482: FA15066-3, FA15066-4, FA15066-2A
Batch GP24020: FA15066-3, FA15066-4, FA15066-2A
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

05/28/14

Technical Report for

ERM

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Accutest Job Number: FA15089

Sampling Date: 05/16/14

Report to:

ERM
1130 Situs Court Suite 250
Raleigh, NC 27606
gregory.kanellis@erm.com; Lane.Dorman@erm.com;
Robert.Laumann@erm.com
ATTN: Lane Dorman

Total number of pages in report: **87**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

ERM

Job No: FA15089

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15089-1	05/16/14	07:40	GKRM	05/17/14	AQ	Ground Water	MW-2
FA15089-1F	05/16/14	07:40	GKRM	05/17/14	AQ	Groundwater Filtered	MW-2
FA15089-2	05/16/14	10:00	GKRM	05/17/14	AQ	Ground Water	MW-8
FA15089-3	05/16/14	10:50	GKRM	05/17/14	AQ	Ground Water	MW-5
FA15089-3F	05/16/14	10:50	GKRM	05/17/14	AQ	Groundwater Filtered	MW-5
FA15089-4	05/16/14	11:55	GKRM	05/17/14	AQ	Ground Water	MW-7
FA15089-5	05/16/14	12:00	GKRM	05/17/14	AQ	Ground Water	MW-4
FA15089-6	05/16/14	14:00	GKRM	05/17/14	AQ	Ground Water	MW-6
FA15089-7	05/16/14	12:05	GKRM	05/17/14	AQ	Ground Water	DUP-1
FA15089-8	05/16/14	13:15	GKRM	05/17/14	AQ	Equipment Blank	RB-1

Summary of Hits

Job Number: FA15089
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/16/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15089-1	**MW-2**					
Toluene		0.22 J	1.0	0.20	ug/l	SW846 8260B
Total TIC, Volatile		69 J			ug/l	
Manganese		69.9	15	1.0	ug/l	SW846 6010C
FA15089-1F	**MW-2**					
Manganese		65.8	15	1.0	ug/l	SW846 6010C
FA15089-2	**MW-8**					
o-Xylene		0.25 J	1.0	0.20	ug/l	SW846 8260B
Total TIC, Volatile		60 J			ug/l	
Iron		12700	300	17	ug/l	SW846 6010C
Manganese		223	15	1.0	ug/l	SW846 6010C
Sulfate		48.1	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		1.6	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA15089-3	**MW-5**					
Manganese		54.9	15	1.0	ug/l	SW846 6010C
FA15089-3F	**MW-5**					
Manganese		52.8	15	1.0	ug/l	SW846 6010C
FA15089-4	**MW-7**					
Xylene (total)		0.74 J	3.0	0.66	ug/l	SW846 8260B
o-Xylene		0.30 J	1.0	0.20	ug/l	SW846 8260B
Total TIC, Volatile		75 J			ug/l	
FA15089-5	**MW-4**					
Toluene		0.23 J	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		8.4	1.0	0.30	ug/l	SW846 8260B
Iron		1300	300	17	ug/l	SW846 6010C
Manganese		141	15	1.0	ug/l	SW846 6010C
Nitrogen, Nitrate		1.1	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		2.0	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		9.6	1.0	0.23	mg/l	SM5310 B-11/SW9060A

Summary of Hits

Job Number: FA15089
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/16/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15089-6	**MW-6**					
Iron		855	300	17	ug/l	SW846 6010C
Manganese		64.9	15	1.0	ug/l	SW846 6010C
Sulfate		7.7	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		22.7	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA15089-7	**DUP-1**					
Toluene		0.26 J	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		8.9	1.0	0.30	ug/l	SW846 8260B
FA15089-8	**RB-1**					
Toluene		0.52 J	1.0	0.20	ug/l	SW846 8260B

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA15089-1	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25717.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA15089-1	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25872.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098636.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA15089-1	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene [b]	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene [b]	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.22	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	101%	79-125%
2037-26-5	Toluene-D8	99%	98%	85-112%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA15089-1	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%	104%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
41934-74-1	Histidine, 4-nitro-	3.77	40	ug/l	JN
7422-82-4	Hydrazine, 1-methyl-1-(2-propynyl)-	4.87	29	ug/l	JN
	Total TIC, Volatile		69	ug/l	J

(a) Result is from Run# 2
(b) Associated Initial Calibration outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA15089-1	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	69.9	15	1.0	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11610
(2) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA15089-1F	**Date Sampled:**	05/16/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	65.8	15	1.0	ug/l	1	05/21/14	05/21/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11614
(2) Prep QC Batch: MP27281

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	FA15089-2	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25718.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	FA15089-2	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25873.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098637.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	FA15089-2	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND [a]	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	0.25	1.0	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	103%	79-125%
2037-26-5	Toluene-D8	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	96%	102%	83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	FA15089-2	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
67-63-0	Isopropyl Alcohol	4.86	60	ug/l	JN
	Total TIC, Volatile		60	ug/l	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	FA15089-2	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	12700	300	17	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	223	15	1.0	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11610
(2) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	FA15089-2	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	05/17/14 13:40	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	05/17/14 13:40	CH	EPA 300/SW846 9056A
Sulfate	48.1	2.0	0.60	mg/l	1	05/17/14 13:40	CH	EPA 300/SW846 9056A
Sulfite [a]	1.5 U	3.0	1.5	mg/l	1	05/20/14 10:38	LE	SM4500SO3 B-11
Total Organic Carbon	1.6	1.0	0.23	mg/l	1	05/21/14 23:12	FN	SM5310 B-11/SW9060A

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA15089-3	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25719.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA15089-3	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25874.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098638.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA15089-3	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	103%	79-125%
2037-26-5	Toluene-D8	101%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	104%	83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA15089-3	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA15089-3	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	54.9	15	1.0	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11610
(2) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA15089-3F	**Date Sampled:**	05/16/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	52.8	15	1.0	ug/l	1	05/21/14	05/21/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11614
(2) Prep QC Batch: MP27281

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	FA15089-4	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25720.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	FA15089-4	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25875.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098639.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	FA15089-4	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	0.74	3.0	0.66	ug/l	J
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	0.30	1.0	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	101%	79-125%
2037-26-5	Toluene-D8	100%	102%	85-112%
460-00-4	4-Bromofluorobenzene	97%	104%	83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	FA15089-4	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
106-98-9	1-Butene	2.88	39	ug/l	JN
35161-70-7	n-Hexylmethylamine	3.80	36	ug/l	JN
	Total TIC, Volatile		75	ug/l	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA15089-5	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25721.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA15089-5	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25876.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098640.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA15089-5	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.23	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	8.4	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	102%	79-125%
2037-26-5	Toluene-D8	100%	99%	85-112%
460-00-4	4-Bromofluorobenzene	96%	103%	83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA15089-5	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA15089-5	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1300	300	17	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	141	15	1.0	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11610
(2) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA15089-5	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	1.1	0.10	0.050	mg/l	1	05/17/14 13:57	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	05/17/14 13:57	CH	EPA 300/SW846 9056A
Sulfate	2.0	2.0	0.60	mg/l	1	05/17/14 13:57	CH	EPA 300/SW846 9056A
Sulfite [a]	1.5 U	3.0	1.5	mg/l	1	05/20/14 10:38	LE	SM4500SO3 B-11
Total Organic Carbon	9.6	1.0	0.23	mg/l	1	05/21/14 23:27	FN	SM5310 B-11/SW9060A

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA15089-6	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25722.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA15089-6	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25877.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098641.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA15089-6	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene [b]	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND [a]	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	101%	79-125%
2037-26-5	Toluene-D8	100%	103%	85-112%
460-00-4	4-Bromofluorobenzene	96%	102%	83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA15089-6	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Associated Initial Calibration outside control limits.
(c) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA15089-6	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	855	300	17	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	64.9	15	1.0	ug/l	1	05/20/14	05/20/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11610
(2) Prep QC Batch: MP27274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA15089-6	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	05/17/14 14:14	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	05/17/14 14:14	CH	EPA 300/SW846 9056A
Sulfate	7.7	2.0	0.60	mg/l	1	05/17/14 14:14	CH	EPA 300/SW846 9056A
Sulfite [a]	1.5 U	3.0	1.5	mg/l	1	05/20/14 10:38	LE	SM4500SO3 B-11
Total Organic Carbon	22.7	1.0	0.23	mg/l	1	05/21/14 23:44	FN	SM5310 B-11/SW9060A

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15089-7	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25723.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15089-7	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25878.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098642.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15089-7	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND [a]	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.26	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	8.9	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	101%	79-125%
2037-26-5	Toluene-D8	101%	102%	85-112%
460-00-4	4-Bromofluorobenzene	95%	101%	83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15089-7	**Date Sampled:**	05/16/14
Matrix:	AQ - Ground Water	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15089-8	**Date Sampled:**	05/16/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/17/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25724.D	1	05/20/14	KW	n/a	n/a	VZ1005
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15089-8	**Date Sampled:**	05/16/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z25879.D	1	05/23/14	KW	n/a	n/a	VZ1010
Run #2	B098643.D	1	05/27/14	DP	n/a	n/a	VB4012

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	5.0	1.0	ug/l	
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15089-8	**Date Sampled:**	05/16/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND [a]	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.52	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	101%	79-125%
2037-26-5	Toluene-D8	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15089-8	**Date Sampled:**	05/16/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/17/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Di-Isopropyl ether	108-20-3	**SW846 8260B**	AQ	Certified by SOP MS005

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA15089 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: ERM
Address: 1130 Situs Ct. Suite 250
City: Raleigh State: NC Zip: 27606
Project Contact: E-mail: Lane.Dorman@erm.com
Phone#: 919-233-4501
Sampler(s) Name(s) (Printed): G. Kamellis / R. Mayette

Project Information

Project Name: ECI Elm Whitsett
Street: 1239 Rock Creek Dairy Rd.
City: Whitsett State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	VOCs 8260 + 10 TICs	1,4 Dioxane 8260 SIM	Total Mn	Dissolved Mn (Field Filtered)	Sulfate, Sulfite, nitrate, nitrite	Total Fe, Mn	TOC
1	MW-2	5/16/14	0940	GK	GW	8			6		2					X	X	X	X			
2	MW-8		1000	RM		10		1	8		1					X	X			X	X	X
3	MW-5		1050	GK		8			6		2					X	X	X	X			
4	MW-7		1155	RM		6			6							X	X					
5	MW-4		1200	GK		10		1	8		1					X	X			X	X	X
6	MW-6		1400	GK		10		1	8		1					X	X			X	X	X
7	Dup-1		1205	GK		6			6							X	X					
8	RB-1		1315	GK	WW	6			6							X	X					

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

short hold

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	5/16/14 1530	2 Brent Bader	3 Brent Bader	5/16/14 1604	4 FX
Relinquished by: 5 FX	Date Time: 5-17-14	Received By: 6 J. Compe (ALSE) 09:45	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.2

4.2 4

FA15089: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15089 CLIENT: ERM PROJECT: EC1

DATE/TIME RECEIVED: 5-17-14 09:45 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8047 2600 3863

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE KC 5-17-14 REVIEWER SIGNATURE/DATE

RS 04/14 receipt confirmation 041514.xls

4.2

4

FA15089: Chain of Custody
Page 2 of 3

ORIGIN ID:MXEA

SHIP DATE: 16MAY14
ACTWGT: 44.1 LB
CAD: /POS1501
DIMS: 17x14x12 IN

BILL RECIPIENT

UNITED STATES US

TO SUPPLY RECV
ACCUTEST LABORATORIES SE, INC
4405 VINELAND RD
STE C15
ORLANDO FL 32811
(407) 425-6700

INV:
PO:
REF:
DEPT:

FedEx Express

1 of 2

TRK# 0215 8047 2600 3863

MASTER

XO TIXA

SATURDAY 12:00P
PRIORITY OVERNIGHT

32811
FL-US MCO

FA15089: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1005-MB	Z25706.D	1	05/20/14	KW	n/a	n/a	VZ1005

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

Method Blank Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1010-MB	Z25857.D	1	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

Method Blank Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1010-MB	Z25857.D	1	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	1.1	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.2	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	99%	85-112%

Method Blank Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1010-MB	Z25857.D	1	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4012-MB	B098633.D	1	05/27/14	DP	n/a	n/a	VB4012

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Blank Spike Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1005-BS	Z25705.D	1	05/20/14	KW	n/a	n/a	VZ1005

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	43.0	86	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	99%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1010-BS	Z25856.D	1	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	106	85	50-147
71-43-2	Benzene	25	26.7	107	81-122
108-86-1	Bromobenzene	25	26.1	104	80-121
74-97-5	Bromochloromethane	25	26.1	104	76-123
75-27-4	Bromodichloromethane	25	25.5	102	79-123
75-25-2	Bromoform	25	22.6	90	66-123
104-51-8	n-Butylbenzene	25	25.9	104	79-126
135-98-8	sec-Butylbenzene	25	29.8	119	83-133
98-06-6	tert-Butylbenzene	25	29.4	118	80-133
108-90-7	Chlorobenzene	25	28.7	115	82-124
75-00-3	Chloroethane	25	25.8	103	62-144
67-66-3	Chloroform	25	26.5	106	80-124
95-49-8	o-Chlorotoluene	25	28.1	112	81-127
106-43-4	p-Chlorotoluene	25	29.7	119	83-130
56-23-5	Carbon tetrachloride	25	27.8	111	76-136
75-34-3	1,1-Dichloroethane	25	27.4	110	81-122
75-35-4	1,1-Dichloroethylene	25	30.3	121	78-137
563-58-6	1,1-Dichloropropene	25	29.8	119	79-131
106-93-4	1,2-Dibromoethane	25	26.7	107	75-120
107-06-2	1,2-Dichloroethane	25	26.8	107	75-125
78-87-5	1,2-Dichloropropane	25	27.0	108	76-124
142-28-9	1,3-Dichloropropane	25	26.1	104	80-118
108-20-3	Di-Isopropyl ether	25	26.4	106	68-123
594-20-7	2,2-Dichloropropane	25	29.0	116	74-139
124-48-1	Dibromochloromethane	25	26.4	106	78-122
75-71-8	Dichlorodifluoromethane	25	27.5	110	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.4	102	78-120
10061-01-5	cis-1,3-Dichloropropene	25	24.9	100	75-118
541-73-1	m-Dichlorobenzene	25	28.5	114	84-125
95-50-1	o-Dichlorobenzene	25	27.3	109	82-124
106-46-7	p-Dichlorobenzene	25	25.7	103	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.7	111	76-127
10061-02-6	trans-1,3-Dichloropropene	25	26.9	108	80-120
100-41-4	Ethylbenzene	25	26.5	106	81-121
64-17-5	Ethyl Alcohol	500	441	88	46-145
591-78-6	2-Hexanone	125	97.5	78	61-129

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1010-BS	Z25856.D	1	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
98-82-8	Isopropylbenzene	25	28.6	114	83-132
99-87-6	p-Isopropyltoluene	25	29.2	117	79-130
108-10-1	4-Methyl-2-pentanone	125	121	97	66-122
74-83-9	Methyl bromide	25	28.5	114	59-143
74-87-3	Methyl chloride	25	26.5	106	50-159
75-09-2	Methylene chloride	25	25.5	102	69-135
78-93-3	Methyl ethyl ketone	125	93.8	75	56-143
1634-04-4	Methyl Tert Butyl Ether	25	25.5	102	72-117
91-20-3	Naphthalene	25	30.4	122	63-132
103-65-1	n-Propylbenzene	25	29.9	120	82-133
100-42-5	Styrene	25	25.2	101	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	27.4	110	77-122
71-55-6	1,1,1-Trichloroethane	25	29.5	118	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	72-120
79-00-5	1,1,2-Trichloroethane	25	25.6	102	76-119
87-61-6	1,2,3-Trichlorobenzene	25	31.7	127	68-131
96-18-4	1,2,3-Trichloropropane	25	25.2	101	77-120
120-82-1	1,2,4-Trichlorobenzene	25	27.3	109	73-129
95-63-6	1,2,4-Trimethylbenzene	25	26.7	107	79-120
108-67-8	1,3,5-Trimethylbenzene	25	27.1	108	79-120
127-18-4	Tetrachloroethylene	25	28.9	116	76-135
108-88-3	Toluene	25	27.0	108	80-120
79-01-6	Trichloroethylene	25	27.8	111	81-126
75-69-4	Trichlorofluoromethane	25	29.2	117	71-156
75-01-4	Vinyl chloride	25	29.2	117	69-159
108-05-4	Vinyl Acetate	125	145	116	43-154
1330-20-7	Xylene (total)	75	82.4	110	80-126
	m,p-Xylene	50	54.6	109	79-126
95-47-6	o-Xylene	25	27.8	111	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	98%	85-112%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1010-BS	Z25856.D	1	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4012-BS	B098631.D	1	05/27/14	DP	n/a	n/a	VB4012

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	25	26.3	105	63-132
87-61-6	1,2,3-Trichlorobenzene	25	27.6	110	68-131
120-82-1	1,2,4-Trichlorobenzene	25	27.8	111	73-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14985-1MS	Z25725.D	1	05/20/14	KW	n/a	n/a	VZ1005
FA14985-1MSD	Z25726.D	1	05/20/14	KW	n/a	n/a	VZ1005
FA14985-1	Z25716.D	1	05/20/14	KW	n/a	n/a	VZ1005

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	FA14985-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	24.5		50	67.3	86	50	70.6	92	5	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA14985-1	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	100%	102%	74-125%
2037-26-5	Toluene-D8	100%	100%	100%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14978-2MS	Z25863.D	20	05/23/14	KW	n/a	n/a	VZ1010
FA14978-2MSD	Z25864.D	20	05/23/14	KW	n/a	n/a	VZ1010
FA14978-2 [a]	Z25862.D	20	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	FA14978-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	500 U		2500	1420	57	2500	1490	60	5	50-147/21
71-43-2	Benzene	14.1	J	500	552	108	500	549	107	1	81-122/14
108-86-1	Bromobenzene	20 U		500	520	104	500	517	103	1	80-121/14
74-97-5	Bromochloromethane	20 U		500	531	106	500	531	106	0	76-123/14
75-27-4	Bromodichloromethane	20 U		500	513	103	500	480	96	7	79-123/19
75-25-2	Bromoform	20 U		500	433	87	500	437	87	1	66-123/21
104-51-8	n-Butylbenzene	20 U		500	514	103	500	512	102	0	79-126/16
135-98-8	sec-Butylbenzene	20 U		500	595	119	500	589	118	1	83-133/16
98-06-6	tert-Butylbenzene	20 U		500	580	116	500	569	114	2	80-133/16
108-90-7	Chlorobenzene	297		500	876	116	500	877	116	0	82-124/14
75-00-3	Chloroethane	40 U		500	517	103	500	494	99	5	62-144/20
67-66-3	Chloroform	20 U		500	535	107	500	536	107	0	80-124/15
95-49-8	o-Chlorotoluene	20 U		500	561	112	500	551	110	2	81-127/15
106-43-4	p-Chlorotoluene	20 U		500	594	119	500	583	117	2	83-130/15
56-23-5	Carbon tetrachloride	20 U		500	554	111	500	520	104	6	76-136/23
75-34-3	1,1-Dichloroethane	20 U		500	551	110	500	542	108	2	81-122/15
75-35-4	1,1-Dichloroethylene	20 U		500	594	119	500	586	117	1	78-137/18
563-58-6	1,1-Dichloropropene	20 U		500	594	119	500	587	117	1	79-131/16
106-93-4	1,2-Dibromoethane	20 U		500	539	108	500	555	111	3	75-120/13
107-06-2	1,2-Dichloroethane	20 U		500	538	108	500	536	107	0	75-125/14
78-87-5	1,2-Dichloropropane	20 U		500	532	106	500	530	106	0	76-124/14
142-28-9	1,3-Dichloropropane	20 U		500	535	107	500	542	108	1	80-118/13
108-20-3	Di-Isopropyl ether	20 U		500	525	105	500	521	104	1	68-123/16
594-20-7	2,2-Dichloropropane	20 U		500	554	111	500	534	107	4	74-139/17
124-48-1	Dibromochloromethane	20 U		500	528	106	500	515	103	2	78-122/19
75-71-8	Dichlorodifluoromethane	40 U		500	529	106	500	535	107	1	42-167/19
156-59-2	cis-1,2-Dichloroethylene	43.1		500	563	104	500	561	104	0	78-120/15
10061-01-5	cis-1,3-Dichloropropene	20 U		500	496	99	500	451	90	10	75-118/23
541-73-1	m-Dichlorobenzene	20 U		500	567	113	500	574	115	1	84-125/14
95-50-1	o-Dichlorobenzene	53.7		500	618	113	500	626	114	1	82-124/14
106-46-7	p-Dichlorobenzene	9.4	J	500	530	104	500	534	105	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	20 U		500	558	112	500	535	107	4	76-127/17
10061-02-6	trans-1,3-Dichloropropene	20 U		500	529	106	500	518	104	2	80-120/22
100-41-4	Ethylbenzene	70.4		500	597	105	500	600	106	1	81-121/14
64-17-5	Ethyl Alcohol	2000 U		10000	9670	97	10000	9550	96	1	46-145/30
591-78-6	2-Hexanone	200 U		2500	1750	70	2500	1930	77	10	61-129/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14978-2MS	Z25863.D	20	05/23/14	KW	n/a	n/a	VZ1010
FA14978-2MSD	Z25864.D	20	05/23/14	KW	n/a	n/a	VZ1010
FA14978-2 [a]	Z25862.D	20	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	FA14978-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
98-82-8	Isopropylbenzene	4.9	J	500	583	116	500	581	115	0	83-132/15
99-87-6	p-Isopropyltoluene	20 U		500	587	117	500	584	117	1	79-130/16
108-10-1	4-Methyl-2-pentanone	100 U		2500	2500	100	2500	2700	108	8	66-122/16
74-83-9	Methyl bromide	40 U		500	573	115	500	561	112	2	59-143/19
74-87-3	Methyl chloride	40 U		500	534	107	500	530	106	1	50-159/19
75-09-2	Methylene chloride	100 U		500	529	106	500	510	102	4	69-135/16
78-93-3	Methyl ethyl ketone	44.9	J	2500	1630	63	2500	1730	67	6	56-143/18
1634-04-4	Methyl Tert Butyl Ether	20 U		500	498	100	500	505	101	1	72-117/14
91-20-3	Naphthalene	100 U		500	599	120	500	668	134*	11	63-132/25
103-65-1	n-Propylbenzene	10.7	J	500	598	117	500	590	116	1	82-133/15
100-42-5	Styrene	20 U		500	511	102	500	512	102	0	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	20 U		500	550	110	500	556	111	1	77-122/19
71-55-6	1,1,1-Trichloroethane	20 U		500	577	115	500	569	114	1	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	20 U		500	503	101	500	523	105	4	72-120/14
79-00-5	1,1,2-Trichloroethane	20 U		500	541	108	500	537	107	1	76-119/14
87-61-6	1,2,3-Trichlorobenzene	20 U		500	576	115	500	648	130	12	68-131/25
96-18-4	1,2,3-Trichloropropane	40 U		500	506	101	500	532	106	5	77-120/16
120-82-1	1,2,4-Trichlorobenzene	20 U		500	510	102	500	550	110	8	73-129/20
95-63-6	1,2,4-Trimethylbenzene	102		500	632	106	500	622	104	2	79-120/18
108-67-8	1,3,5-Trimethylbenzene	40.2		500	577	107	500	569	106	1	79-120/19
127-18-4	Tetrachloroethylene	20 U		500	553	111	500	549	110	1	76-135/16
108-88-3	Toluene	2150	E	500	2660	102	500	2670	104	0	80-120/14
79-01-6	Trichloroethylene	20 U		500	558	112	500	548	110	2	81-126/15
75-69-4	Trichlorofluoromethane	40 U		500	562	112	500	544	109	3	71-156/21
75-01-4	Vinyl chloride	28.7		500	579	110	500	584	111	1	69-159/18
108-05-4	Vinyl Acetate	200 U		2500	2850	114	2500	2920	117	2	43-154/14
1330-20-7	Xylene (total)	296		1500	1940	110	1500	1950	110	1	80-126/15
	m,p-Xylene	205		1000	1290	109	1000	1290	109	0	79-126/15
95-47-6	o-Xylene	91.1		500	649	112	500	657	113	1	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA14978-2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	95%	95%	79-125%
2037-26-5	Toluene-D8	98%	99%	98%	85-112%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14978-2MS	Z25863.D	20	05/23/14	KW	n/a	n/a	VZ1010
FA14978-2MSD	Z25864.D	20	05/23/14	KW	n/a	n/a	VZ1010
FA14978-2 [a]	Z25862.D	20	05/23/14	KW	n/a	n/a	VZ1010

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Surrogate Recoveries	MS	MSD	FA14978-2	Limits
460-00-4	4-Bromofluorobenzene	90%	91%	93%	83-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15089
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14985-1MS	B098654.D	1	05/27/14	DP	n/a	n/a	VB4012
FA14985-1MSD	B098655.D	1	05/27/14	DP	n/a	n/a	VB4012
FA14985-1	B098644.D	1	05/27/14	DP	n/a	n/a	VB4012

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15089-1, FA15089-2, FA15089-3, FA15089-4, FA15089-5, FA15089-6, FA15089-7, FA15089-8

CAS No.	Compound	FA14985-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	5.0	U	25	23.4	94	25	24.3	97	4	63-132/25
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	23.6	94	25	25.3	101	7	68-131/25
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	25.4	102	25	25.6	102	1	73-129/20

CAS No.	Surrogate Recoveries	MS	MSD	FA14985-1	Limits
1868-53-7	Dibromofluoromethane	101%	104%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	99%	79-125%
2037-26-5	Toluene-D8	97%	102%	98%	85-112%
460-00-4	4-Bromofluorobenzene	105%	105%	101%	83-118%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/20/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15		
Antimony	6.0	2	2.3		
Arsenic	10	2	2.4		
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5		
Calcium	1000	50	50		
Chromium	10	1	2		
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	17	17	-6.4	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	50	56		
Manganese	15	.5	1	0.0	<15
Molybdenum	50	.5	.5		
Nickel	40	.5	.5		
Potassium	10000	200	200		
Selenium	10	2.3	2.3		
Silver	10	.65	.77		
Sodium	10000	500	500		
Strontium	10	.4	.4		
Thallium	10	1.5	2		
Tin	50	.7	1		
Titanium	10	.9	1		
Vanadium	50	.5	.5		
Zinc	20	3	3		

Associated samples MP27274: FA15089-1, FA15089-2, FA15089-3, FA15089-5, FA15089-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			05/20/14					05/20/14	
Metal	FA14940-1 Original	DUP	RPD	QC Limits	FA14940-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	386	381	1.3	0-20	386	28600	26000	108.5	80-120
Lead	anr								
Magnesium									
Manganese	2300	2310	0.4	0-20	2300	2780	500	96.0	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP27274: FA15089-1, FA15089-2, FA15089-3, FA15089-5, FA15089-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27274 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/20/14

Metal	FA14940-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	386	28700	26000	108.9	0.3	20
Lead	anr					
Magnesium						
Manganese	2300	2810	500	102.0	1.1	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP27274: FA15089-1, FA15089-2, FA15089-3, FA15089-5, FA15089-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/20/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	28500	26000	109.6	80-120
Lead	anr			
Magnesium				
Manganese	562	500	112.4	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27274: FA15089-1, FA15089-2, FA15089-3, FA15089-5, FA15089-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/20/14

Metal	FA14940-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	386	319	17.6 (a)	0-10
Lead	anr			
Magnesium				
Manganese	2300	2320	0.9	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27274: FA15089-1, FA15089-2, FA15089-3, FA15089-5, FA15089-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/20/14

Metal	Sample ml	Final ml	FA14940-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	386.3	378.574	3548	0.2	150	3000	105.6	80-120
Lead										
Magnesium										
Manganese	9.8	10	2303	2256.94	2310	0.2	2.5	50	106.1	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27274: FA15089-1, FA15089-2, FA15089-3, FA15089-5, FA15089-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27281
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Prep Date:					05/21/14		05/21/14
Aluminum	200	15	15				
Antimony	6.0	2	2.3				
Arsenic	10	2	2.4				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	17	17				
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	0.0	<15	0.0	<15
Molybdenum	50	.5	.5				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2.3	2.3				
Silver	10	.65	.77				
Sodium	10000	500	500				
Strontium	10	.4	.4				
Thallium	10	1.5	2				
Tin	50	.7	1				
Titanium	10	.9	1				
Vanadium	50	.5	.5				
Zinc	20	3	3				

Associated samples MP27281: FA15089-1F, FA15089-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27281
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:	05/21/14							05/21/14	
Metal	FA14961-2 Original	DUP	RPD	QC Limits	FA14961-2 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	26.2	26.3	0.4	0-20	26.2	572	500	109.2	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP27281: FA15089-1F, FA15089-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27281 | Methods: SW846 6010C
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 05/21/14

Metal	FA14961-2 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium	anr					
Manganese	26.2	558	500	106.4	2.5	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP27281: FA15089-1F, FA15089-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27281
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	524	500	104.8	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27281: FA15089-1F, FA15089-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27281
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/14

Metal	FA14961-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	26.2	24.1	8.0	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27281: FA15089-1F, FA15089-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27281
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/14

Metal	Sample ml	Final ml	FA14961-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese	9.8	10	26.2	25.676	80.1	0.2	2.5	50	108.8	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27281: FA15089-1F, FA15089-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP24023/GN61511	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Fluoride	GP24023/GN61511	0.20	0.0	mg/l	2.5	2.43	97.2	90-110%
Nitrogen, Nitrate	GP24023/GN61511	0.10	0.0	mg/l	2.5	2.40	96.0	90-110%
Nitrogen, Nitrite	GP24023/GN61511	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Sulfate	GP24023/GN61511	2.0	0.0	mg/l	50	50.7	101.4	90-110%
Sulfite	GN61504	3.0	0.0	mg/l	39.0	42.0	108.0	80-120%
Total Organic Carbon	GP24043/GN61535	1.0	0.0	mg/l	15	16.1	107.3	90-110%

Associated Samples:
Batch GN61504: FA15089-2, FA15089-5, FA15089-6
Batch GP24023: FA15089-2, FA15089-5, FA15089-6
Batch GP24043: FA15089-2, FA15089-5, FA15089-6
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Total Organic Carbon	GP24043/GN61535	FA15149-1	mg/l	0.23 B	0.0	200.0(a)	0-20%

Associated Samples:
Batch GP24043: FA15089-2, FA15089-5, FA15089-6
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP24023/GN61511	FA15089-2	mg/l	14.5	50	64.4	99.8	90-110%
Fluoride	GP24023/GN61511	FA15089-2	mg/l	0.18 B	2.5	2.4	88.8N(a)	90-110%
Nitrogen, Nitrate	GP24023/GN61511	FA15089-2	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP24023/GN61511	FA15089-2	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Sulfate	GP24023/GN61511	FA15089-2	mg/l	48.1	50	93.0	89.8N(a)	90-110%
Sulfite	GN61504	FA15089-2	mg/l	1.5 U	39.0	41.5	106.0	75-125%
Total Organic Carbon	GP24043/GN61535	FA15149-1	mg/l	0.23 B	15	17.8	117.1N(a)	90-110%

Associated Samples:
Batch GN61504: FA15089-2, FA15089-5, FA15089-6
Batch GP24023: FA15089-2, FA15089-5, FA15089-6
Batch GP24043: FA15089-2, FA15089-5, FA15089-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15089
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP24023/GN61511	FA15089-2	mg/l	14.5	50	63.5	1.4	20%
Fluoride	GP24023/GN61511	FA15089-2	mg/l	0.18 B	2.5	2.4	0.0	20%
Nitrogen, Nitrate	GP24023/GN61511	FA15089-2	mg/l	0.050 U	2.5	2.3	0.0	20%
Nitrogen, Nitrite	GP24023/GN61511	FA15089-2	mg/l	0.050 U	2.5	2.4	4.1	20%
Sulfate	GP24023/GN61511	FA15089-2	mg/l	48.1	50	92.0	1.1	20%
Sulfite	GN61504	FA15089-2	mg/l	1.5 U	39.0	43.0	3.5	

Associated Samples:
Batch GN61504: FA15089-2, FA15089-5, FA15089-6
Batch GP24023: FA15089-2, FA15089-5, FA15089-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/17/14

Technical Report for

ERM

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Accutest Job Number: FA15588

Sampling Date: 06/05/14

Report to:

ERM
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Raleigh, NC 27606
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Robert.Laumann@erm.com
ATTN: Lane Dorman

Total number of pages in report: **41**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest Laboratories

Sample Summary

ERM

Job No: FA15588

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15588-1	06/05/14	10:30	TN	06/06/14	AQ	Ground Water	MW-12
FA15588-2	06/05/14	00:00	TN	06/06/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA15588
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 06/05/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15588-1	**MW-12**					
Total TIC, Volatile		50 J			ug/l	
Iron		295 B	300	17	ug/l	SW846 6010C
Manganese		72.9	15	1.0	ug/l	SW846 6010C
Sulfate		9.0	2.0	0.60	mg/l	EPA 300/SW846 9056A
Sulfide		1.7	0.75	0.21	mg/l	SM4500S2- F-11
Total Organic Carbon		0.80 B	1.0	0.23	mg/l	SM5310 B-11/SW9060A

FA15588-2 **TRIP BLANK**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA15588-1	**Date Sampled:**	06/05/14
Matrix:	AQ - Ground Water	**Date Received:**	06/06/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z26290.D	1	06/09/14	AH	n/a	n/a	VZ1024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	91%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA15588-1	**Date Sampled:**	06/05/14
Matrix:	AQ - Ground Water	**Date Received:**	06/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I21668.D	1	06/17/14	DP	n/a	n/a	VI427
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA15588-1	**Date Sampled:**	06/05/14
Matrix:	AQ - Ground Water	**Date Received:**	06/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA15588-1	**Date Sampled:**	06/05/14
Matrix:	AQ - Ground Water	**Date Received:**	06/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	92%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
2043-43-8	Propanamide, 2-hydroxy-	4.78	50	ug/l	JN
	Total TIC, Volatile		50	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA15588-1	**Date Sampled:**	06/05/14
Matrix:	AQ - Ground Water	**Date Received:**	06/06/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	295 B	300	17	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	72.9	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA15588-1	**Date Sampled:**	06/05/14
Matrix:	AQ - Ground Water	**Date Received:**	06/06/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	06/06/14 12:24	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/06/14 12:24	CH	EPA 300/SW846 9056A
Sulfate	9.0	2.0	0.60	mg/l	1	06/06/14 12:24	CH	EPA 300/SW846 9056A
Sulfide	1.7	0.75	0.21	mg/l	1	06/09/14 09:00	LE	SM4500S2- F-11
Total Organic Carbon	0.80 B	1.0	0.23	mg/l	1	06/11/14 06:12	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15588-2	**Date Sampled:**	06/05/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/06/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z26288.D	1	06/09/14	AH	n/a	n/a	VZ1024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	88%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15588-2	**Date Sampled:**	06/05/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I21665.D	1	06/17/14	DP	n/a	n/a	VI427
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15588-2	**Date Sampled:**	06/05/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15588-2	**Date Sampled:**	06/05/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA15588

PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name ERM
Address ERM 1130 SITUS COURT STE 250
City RALEIGH State NC Zip 27606
Project Contact LANE DORMAN E-mail LANE.DORMAN@ERM.COM
Phone#
Sampler(s) Name(s) (Printed) TOM NAUMANN

Project Information

Project Name: EC1
Street
City WHITSETT State NC
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	VOC'S	1,4 DIOXANE	TOTAL ORGANIC CARBON	SULFIDE	NITRATE, NITRITE, SULFATE	IRON, MANGANESE					
1	MW-12	6/5/14	1030	TEN	GW	12		1	8		1		2			3	3	2	2	1	1					
2	TRIP BLANK															2										

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

RALEIGH, NC

SVC CENTER

SEE LANE DORMAN FOR THIS SECTION

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 TOM NAUMANN	6/5/14 1630	2 Grant Radler	3 Grant Radler	6/5/14 1735	4 FX
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5 FX 060614	930	6 [illegible]			8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.0

4.1
4

FA15588: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15588 CLIENT: ERM PROJECT: ECI

DATE/TIME RECEIVED: 06-06-14 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7702 1299 9943

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 1.6
- [ ] CORRECTED TEMPS: 2.0

SAMPLE INFORMATION

- [x] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Received 2 bottle For Sulfides

TECHNICIAN SIGNATURE/DATE 06-06-14 REVIEWER SIGNATURE/DATE 06/06/14

RS 04/14 receipt confirmation 041514.xls

4.1

4

FA15588: Chain of Custody
Page 2 of 3

From: (919) 208-7171
Brent Rader
Accutest Labs Southeast
6308 - C Angus Drive

Raleigh, NC 27617

Origin ID: RZZA

FedEx Express

J1410142070326

Ship Date: 05JUN14
ActWgt: 15.0 LB
CAD: 9855222/INET3490

Delivery Address Bar Code

SHIP TO: (407) 425-6700
Sample Receiving
Accutest SE
4405 VINELAND RD.
STE. C15
ORLANDO, FL 32811

BILL SENDER

Ref #
Invoice #
PO #
Dept #

FRI - 06 JUN AA
STANDARD OVERNIGHT

TRK# 8201 7702 1299 9943

XH TIXA

32811
FL-US
MCO

522G3/A26D/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1024-MB	Z26285.D	1	06/09/14	AH	n/a	n/a	VZ1024

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15588-1, FA15588-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	107%	74-125%
2037-26-5	Toluene-D8	91%	88-111%

Method Blank Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI427-MB	I21664.D	1	06/17/14	DP	n/a	n/a	VI427

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15588-1, FA15588-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI427-MB	I21664.D	1	06/17/14	DP	n/a	n/a	VI427

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15588-1, FA15588-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI427-MB	I21664.D	1	06/17/14	DP	n/a	n/a	VI427

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15588-1, FA15588-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1024-BS	Z26283.D	1	06/09/14	AH	n/a	n/a	VZ1024

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15588-1, FA15588-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	40.3	81	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	91%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI427-BS	I21662.D	1	06/17/14	DP	n/a	n/a	VI427

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15588-1, FA15588-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	128	102	50-147
107-02-8	Acrolein	125	130	104	31-154
107-13-1	Acrylonitrile	125	118	94	58-126
71-43-2	Benzene	25	25.4	102	81-122
108-86-1	Bromobenzene	25	24.2	97	80-121
74-97-5	Bromochloromethane	25	25.3	101	76-123
75-27-4	Bromodichloromethane	25	25.2	101	79-123
75-25-2	Bromoform	25	22.0	88	66-123
104-51-8	n-Butylbenzene	25	25.5	102	79-126
135-98-8	sec-Butylbenzene	25	28.5	114	83-133
98-06-6	tert-Butylbenzene	25	27.8	111	80-133
108-90-7	Chlorobenzene	25	27.2	109	82-124
75-00-3	Chloroethane	25	28.1	112	62-144
67-66-3	Chloroform	25	25.3	101	80-124
95-49-8	o-Chlorotoluene	25	28.3	113	81-127
106-43-4	p-Chlorotoluene	25	28.1	112	83-130
110-75-8	2-Chloroethyl vinyl ether	125	153	122	56-122
75-15-0	Carbon disulfide	25	25.9	104	66-148
56-23-5	Carbon tetrachloride	25	27.1	108	76-136
75-34-3	1,1-Dichloroethane	25	26.0	104	81-122
75-35-4	1,1-Dichloroethylene	25	27.8	111	78-137
563-58-6	1,1-Dichloropropene	25	27.7	111	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	26.7	107	64-123
106-93-4	1,2-Dibromoethane	25	24.9	100	75-120
107-06-2	1,2-Dichloroethane	25	25.4	102	75-125
78-87-5	1,2-Dichloropropane	25	25.4	102	76-124
142-28-9	1,3-Dichloropropane	25	25.1	100	80-118
594-20-7	2,2-Dichloropropane	25	27.7	111	74-139
124-48-1	Dibromochloromethane	25	24.7	99	78-122
75-71-8	Dichlorodifluoromethane	25	30.8	123	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120
10061-01-5	cis-1,3-Dichloropropene	25	24.5	98	75-118
541-73-1	m-Dichlorobenzene	25	27.0	108	84-125
95-50-1	o-Dichlorobenzene	25	26.6	106	82-124
106-46-7	p-Dichlorobenzene	25	25.1	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.2	105	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI427-BS	I21662.D	1	06/17/14	DP	n/a	n/a	VI427

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15588-1, FA15588-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.5	106	80-120
100-41-4	Ethylbenzene	25	25.5	102	81-121
591-78-6	2-Hexanone	125	126	101	61-129
87-68-3	Hexachlorobutadiene	25	27.5	110	75-142
98-82-8	Isopropylbenzene	25	27.8	111	83-132
99-87-6	p-Isopropyltoluene	25	27.9	112	79-130
108-10-1	4-Methyl-2-pentanone	125	122	98	66-122
74-83-9	Methyl bromide	25	29.6	118	59-143
74-87-3	Methyl chloride	25	30.4	122	50-159
74-95-3	Methylene bromide	25	24.8	99	78-119
75-09-2	Methylene chloride	25	24.7	99	69-135
78-93-3	Methyl ethyl ketone	125	120	96	56-143
1634-04-4	Methyl Tert Butyl Ether	25	25.1	100	72-117
91-20-3	Naphthalene	25	24.5	98	63-132
103-65-1	n-Propylbenzene	25	28.4	114	82-133
100-42-5	Styrene	25	24.7	99	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	24.7	99	77-122
71-55-6	1,1,1-Trichloroethane	25	26.9	108	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	25.2	101	72-120
79-00-5	1,1,2-Trichloroethane	25	24.6	98	76-119
87-61-6	1,2,3-Trichlorobenzene	25	24.9	100	68-131
96-18-4	1,2,3-Trichloropropane	25	25.6	102	77-120
120-82-1	1,2,4-Trichlorobenzene	25	25.0	100	73-129
95-63-6	1,2,4-Trimethylbenzene	25	24.9	100	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.0	100	79-120
127-18-4	Tetrachloroethylene	25	26.3	105	76-135
108-88-3	Toluene	25	25.0	100	80-120
79-01-6	Trichloroethylene	25	25.8	103	81-126
75-69-4	Trichlorofluoromethane	25	29.7	119	71-156
75-01-4	Vinyl chloride	25	29.5	118	69-159
108-05-4	Vinyl Acetate	125	193	154	43-154
	m,p-Xylene	50	53.1	106	79-126
95-47-6	o-Xylene	25	26.9	108	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI427-BS	I21662.D	1	06/17/14	DP	n/a	n/a	VI427

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15588-1, FA15588-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15588
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15630-1MS	Z26294.D	1	06/09/14	AH	n/a	n/a	VZ1024
FA15630-1MSD	Z26295.D	1	06/09/14	AH	n/a	n/a	VZ1024
FA15630-1	Z26293.D	1	06/09/14	AH	n/a	n/a	VZ1024

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15588-1, FA15588-2

CAS No.	Compound	FA15630-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	2.2		50	45.6	87	50	49.3	94	8	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA15630-1	Limits
17060-07-0	1,2-Dichloroethane-D4	110%	107%	108%	74-125%
2037-26-5	Toluene-D8	88%	91%	88%	88-111%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					06/14/14		06/14/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	2	2.3				
Arsenic	10	2	2.4				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	17	17	-9.4	<300	-11	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	-0.20	<15	-0.20	<15
Molybdenum	50	.5	.5				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2.3	2.3				
Silver	10	.65	.77				
Sodium	10000	500	500				
Strontium	10	.4	.4				
Thallium	10	1.5	2				
Tin	50	.7	1				
Titanium	10	.9	1				
Vanadium	50	.5	.5				
Zinc	20	3	3				

Associated samples MP27406: FA15588-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27406 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date:			06/14/14					06/14/14	
Metal	FA15429-2 Original	DUP	RPD	QC Limits	FA15429-2 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	anr								
Iron	24.5	17.3	34.4 (a)	0-20	24.5	25900	26000	99.5	80-120
Lead									
Magnesium									
Manganese	176	175	0.6	0-20	176	681	500	101.0	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc									

Associated samples MP27406: FA15588-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	FA15429-2 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	anr					
Iron	24.5	26200	26000	100.7	1.2	20
Lead						
Magnesium						
Manganese	176	690	500	102.8	1.3	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc						

Associated samples MP27406: FA15588-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	26300	26000	101.2	80-120
Lead	anr			
Magnesium				
Manganese	521	500	104.2	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP27406: FA15588-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	FA15429-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Iron	24.5	0.00	100.0(a)	0-10
Lead				
Magnesium				
Manganese	176	178	0.9	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP27406: FA15588-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	Sample ml	Final ml	FA15429-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	24.5	24.01	2978	0.2	150	3000	98.5	80-120
Lead										
Magnesium										
Manganese	9.8	10	176.2	172.676	224.2	0.2	2.5	50	103.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27406: FA15588-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP24123/GN61780	2.0	0.0	mg/l	50	50.0	100.0	90-110%
Nitrogen, Nitrate	GP24123/GN61780	0.10	0.0	mg/l	2.5	2.35	94.0	90-110%
Nitrogen, Nitrite	GP24123/GN61780	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Sulfate	GP24123/GN61780	2.0	0.0	mg/l	50	48.2	96.4	90-110%
Sulfide	GN61774	1.0	0.0	mg/l	13.3	13.2	99.3	76-112%
Sulfide	GN61774			mg/l	13.3	13.6	103.0	76-112%
Total Organic Carbon	GP24139/GN61820	1.0	0.0	mg/l	15	13.8	92.0	90-110%

Associated Samples:
Batch GN61774: FA15588-1
Batch GP24123: FA15588-1
Batch GP24139: FA15588-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Total Organic Carbon	GP24139/GN61820	FA15635-4	mg/l	2.9	2.9	0.0	0-20%

Associated Samples:
Batch GP24139: FA15588-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP24123/GN61780	FA15588-1	mg/l	3.5	50	53.5	100.0	90-110%
Nitrogen, Nitrate	GP24123/GN61780	FA15588-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP24123/GN61780	FA15588-1	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Sulfate	GP24123/GN61780	FA15588-1	mg/l	9.0	50	56.1	94.2	90-110%
Total Organic Carbon	GP24139/GN61820	FA15635-4	mg/l	2.9	15	16.9	93.3	90-110%

Associated Samples:
Batch GP24123: FA15588-1
Batch GP24139: FA15588-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15588
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP24123/GN61780	FA15588-1	mg/l	3.5	50	53.5	0.0	20%
Nitrogen, Nitrate	GP24123/GN61780	FA15588-1	mg/l	0.050 U	2.5	2.3	4.3	20%
Nitrogen, Nitrite	GP24123/GN61780	FA15588-1	mg/l	0.050 U	2.5	2.5	0.0	20%
Sulfate	GP24123/GN61780	FA15588-1	mg/l	9.0	50	56.0	0.2	20%

Associated Samples:
Batch GP24123: FA15588-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

07/28/14

Technical Report for

ERM

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Accutest Job Number: FA15635

Sampling Date: 06/06/14

Report to:

ERM

Gregory.kanellis@erm.com

ATTN: Gregory Kanellis

Total number of pages in report: **92**

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

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Sample Summary

ERM

Job No: FA15635

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15635-1	06/06/14	11:00	TNGK	06/07/14	SO	Soil	WP-55 @ 0.5'
FA15635-1L	06/06/14	11:00	TNGK	06/07/14	SO	Soil	WP-55 @ 0.5'
FA15635-2	06/06/14	13:00	TNGK	06/07/14	SO	Soil	DRUM-1
FA15635-3	06/06/14	13:05	TNGK	06/07/14	SO	Soil	DRUM-2
FA15635-4	06/06/14	09:40	TNGK	06/07/14	AQ	Ground Water	MW-11
FA15635-5	06/06/14	14:00	TNGK	06/07/14	AQ	Ground Water	DW-1
FA15635-6	06/06/14	00:00	TNGK	06/07/14	AQ	Trip Blank Water	TRIP BLANK
FA15635-7	06/06/14	00:00	TNGK	06/07/14	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA15635
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 06/06/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15635-1	**WP-55 @ 0.5'**					
No hits reported in this sample.						
FA15635-1L	**WP-55 @ 0.5'**					
Ethylbenzene		0.0011	0.0010	0.00028	mg/l	SW846 8260B
Styrene		0.0010	0.0010	0.00023	mg/l	SW846 8260B
Toluene		0.00092 J	0.0010	0.00020	mg/l	SW846 8260B
Xylene (total)		0.0233	0.0030	0.00066	mg/l	SW846 8260B
FA15635-2	**DRUM-1**					
No hits reported in this sample.						
FA15635-3	**DRUM-2**					
No hits reported in this sample.						
FA15635-4	**MW-11**					
Chloroform		5.0	1.0	0.31	ug/l	SW846 8260B
1,1-Dichloroethylene		0.86 J	1.0	0.25	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		2.9	1.0	0.33	ug/l	SW846 8260B
Trichloroethylene		128	2.5	0.76	ug/l	SW846 8260B
Iron		1120	300	17	ug/l	SW846 6010C
Manganese		700	15	1.0	ug/l	SW846 6010C
Nitrogen, Nitrate		0.59	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		68.4	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		2.9	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA15635-5	**DW-1**					
cis-1,2-Dichloroethylene		1.9	1.0	0.33	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.28 J	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		80.0	1.0	0.30	ug/l	SW846 8260B
Iron		452	300	17	ug/l	SW846 6010C
Manganese		479	15	1.0	ug/l	SW846 6010C
Sulfate		43.9	2.0	0.60	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		1.5	1.0	0.23	mg/l	SM5310 B-11/SW9060A
FA15635-6	**TRIP BLANK**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA15635
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 06/06/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15635-7	**TRIP BLANK**					

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP-55 @ 0.5'		
Lab Sample ID:	FA15635-1	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	81.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064832.D	1	06/12/14	AH	n/a	n/a	VF2144
Run #2							

	Initial Weight
Run #1	5.71 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.4	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
17060-07-0	1,2-Dichloroethane-D4	120%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-55 @ 0.5'		
Lab Sample ID:	FA15635-1	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	81.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0085862.D	1	06/09/14	EP	n/a	n/a	VH3266
Run #2							

	Initial Weight
Run #1	5.47 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	56	17	ug/kg	
107-02-8	Acrolein	ND	28	12	ug/kg	
107-13-1	Acrylonitrile	ND	28	8.8	ug/kg	
71-43-2	Benzene	ND	5.6	1.1	ug/kg	
108-86-1	Bromobenzene	ND	5.6	1.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	1.1	ug/kg	
75-25-2	Bromoform	ND	5.6	1.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.6	2.5	ug/kg	
67-66-3	Chloroform	ND	5.6	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.6	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.6	1.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	28	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.6	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.6	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.6	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-55 @ 0.5'		
Lab Sample ID:	FA15635-1	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	81.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.6	1.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.6	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.6	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	1.1	ug/kg	
591-78-6	2-Hexanone	ND	28	5.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.6	1.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	28	5.6	ug/kg	
74-83-9	Methyl bromide	ND	5.6	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.6	2.2	ug/kg	
74-95-3	Methylene bromide	ND	5.6	1.3	ug/kg	
75-09-2	Methylene chloride	ND	11	4.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	28	8.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.6	1.1	ug/kg	
91-20-3	Naphthalene	ND	5.6	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	1.1	ug/kg	
100-42-5	Styrene	ND	5.6	1.1	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	1.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	1.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	1.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	1.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	1.4	ug/kg	
108-88-3	Toluene	ND	5.6	1.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.1	ug/kg	
108-05-4	Vinyl Acetate	ND	28	9.0	ug/kg	
	m,p-Xylene	ND	11	1.8	ug/kg	
95-47-6	o-Xylene	ND	5.6	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-55 @ 0.5'		
Lab Sample ID:	FA15635-1	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	81.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		75-124%
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%
17060-07-0	1,2-Dichloroethane-D4	99%		72-135%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-55 @ 0.5'		
Lab Sample ID:	FA15635-1L	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	81.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M75031.D	1	06/12/14	RB	06/09/14	OP51903	VM3169
Run #2	N0077228.D	1	06/17/14	RB	06/09/14	OP51903	VN3380

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND [b]		0.025	0.011	mg/l	
71-43-2	Benzene	ND		0.0010	0.00024	mg/l	
75-27-4	Bromodichloromethane	ND		0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND		0.0010	0.00038	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND		0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00031	mg/l	
75-15-0	Carbon disulfide	ND		0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND		0.0010	0.00025	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00036	mg/l	
124-48-1	Dibromochloromethane	ND		0.0010	0.00036	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND		0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND		0.0010	0.00034	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	0.0011		0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND		0.010	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone	ND		0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND		0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND		0.0020	0.00053	mg/l	
75-09-2	Methylene chloride	ND		0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND		0.0050	0.0015	mg/l	
100-42-5	Styrene	0.0010		0.0010	0.00023	mg/l	
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00032	mg/l	
127-18-4	Tetrachloroethylene	ND		0.0010	0.00026	mg/l	
108-88-3	Toluene	0.00092		0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	ND		0.0010	0.00030	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-55 @ 0.5'		
Lab Sample ID:	FA15635-1L	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	81.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND		0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	0.0233		0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	111%	79-125%
2037-26-5	Toluene-D8	87%	94%	85-112%
460-00-4	4-Bromofluorobenzene	91%	94%	83-118%

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DRUM-1		
Lab Sample ID:	FA15635-2	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B SW846 1311	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077257.D	10	06/18/14	RB	06/16/14	OP51989	VN3382
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP List **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.010	0.0024	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.010	0.0024	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.010	0.0031	mg/l	
56-23-5	Carbon tetrachloride [a]	ND	D019	0.50	0.010	0.0040	mg/l	
75-35-4	1,1-Dichloroethylene [a]	ND	D029	0.70	0.010	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.010	0.0024	mg/l	
106-46-7	p-Dichlorobenzene	ND	D027	7.5	0.010	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	D035	200	0.050	0.015	mg/l	
127-18-4	Tetrachloroethylene	ND	D039	0.70	0.010	0.0026	mg/l	
79-01-6	Trichloroethylene	ND	D040	0.50	0.010	0.0030	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.010	0.0033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DRUM-2		
Lab Sample ID:	FA15635-3	**Date Sampled:**	06/06/14
Matrix:	SO - Soil	**Date Received:**	06/07/14
Method:	SW846 8260B SW846 1311	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077258.D	10	06/18/14	RB	06/16/14	OP51989	VN3382
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP List **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.010	0.0024	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.010	0.0024	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.010	0.0031	mg/l	
56-23-5	Carbon tetrachloride [a]	ND	D019	0.50	0.010	0.0040	mg/l	
75-35-4	1,1-Dichloroethylene [a]	ND	D029	0.70	0.010	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.010	0.0024	mg/l	
106-46-7	p-Dichlorobenzene	ND	D027	7.5	0.010	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	D035	200	0.050	0.015	mg/l	
127-18-4	Tetrachloroethylene	ND	D039	0.70	0.010	0.0026	mg/l	
79-01-6	Trichloroethylene	ND	D040	0.50	0.010	0.0030	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.010	0.0033	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA15635-4	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z26298.D	1	06/09/14	AH	n/a	n/a	VZ1024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	88%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA15635-4	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077243.D	1	06/17/14	RB	n/a	n/a	VN3381
Run #2	N0077244.D	2.5	06/17/14	RB	n/a	n/a	VN3381

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	5.0	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	0.86	1.0	0.25	ug/l	J
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.9	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA15635-4	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	128 [b]	2.5	0.76	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA15635-4	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	110%	83-118%
17060-07-0	1,2-Dichloroethane-D4	118%	118%	79-125%
2037-26-5	Toluene-D8	97%	95%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.40	11000	ug/l	JNB
	Total TIC, Volatile		0	ug/l	

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA15635-4	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1120	300	17	ug/l	1	06/17/14	06/17/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	700	15	1.0	ug/l	1	06/17/14	06/17/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11673
(2) Prep QC Batch: MP27417

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA15635-4	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.59	0.10	0.050	mg/l	1	06/07/14 12:59	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/07/14 12:59	CH	EPA 300/SW846 9056A
Sulfate	68.4	2.0	0.60	mg/l	1	06/07/14 12:59	CH	EPA 300/SW846 9056A
Sulfide	0.22 U	0.80	0.22	mg/l	1	06/09/14 09:00	LE	SM4500S2- F-11
Total Organic Carbon	2.9	1.0	0.23	mg/l	1	06/11/14 04:15	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DW-1		
Lab Sample ID:	FA15635-5	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z26292.D	1	06/09/14	AH	n/a	n/a	VZ1024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	88%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DW-1		
Lab Sample ID:	FA15635-5	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077240.D	1	06/17/14	RB	n/a	n/a	VN3381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.9	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DW-1		
Lab Sample ID:	FA15635-5	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.28	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	80.0	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DW-1		
Lab Sample ID:	FA15635-5	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.39	9900	ug/l	JNB
	Total TIC, Volatile		0	ug/l	

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DW-1		
Lab Sample ID:	FA15635-5	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	452	300	17	ug/l	1	06/17/14	06/17/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	479	15	1.0	ug/l	1	06/17/14	06/17/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11673
(2) Prep QC Batch: MP27417

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DW-1		
Lab Sample ID:	FA15635-5	**Date Sampled:**	06/06/14
Matrix:	AQ - Ground Water	**Date Received:**	06/07/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	06/07/14 13:16	CH	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/07/14 13:16	CH	EPA 300/SW846 9056A
Sulfate	43.9	2.0	0.60	mg/l	1	06/07/14 13:16	CH	EPA 300/SW846 9056A
Sulfide	0.22 U	0.80	0.22	mg/l	1	06/09/14 09:00	LE	SM4500S2- F-11
Total Organic Carbon	1.5	1.0	0.23	mg/l	1	06/11/14 05:08	FN	SM5310 B-11/SW9060A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-6	**Date Sampled:**	06/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z26289.D	1	06/09/14	AH	n/a	n/a	VZ1024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	89%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-6	**Date Sampled:**	06/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077238.D	1	06/17/14	RB	n/a	n/a	VN3381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-6	**Date Sampled:**	06/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-6	**Date Sampled:**	06/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.39	1200	ug/l	JNB
	Total TIC, Volatile		0	ug/l	

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-7	**Date Sampled:**	06/06/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	06/07/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064831.D	1	06/12/14	AH	n/a	n/a	VF2144
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		75-126%
17060-07-0	1,2-Dichloroethane-D4	109%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-7	**Date Sampled:**	06/06/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0085863.D	1	06/09/14	EP	n/a	n/a	VH3266
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-7	**Date Sampled:**	06/06/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15635-7	**Date Sampled:**	06/06/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	06/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		75-124%
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%
17060-07-0	1,2-Dichloroethane-D4	94%		72-135%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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www.accutest.com

Accutest JOB # FA15635 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: ERM
Address: 1130 Situs Ct. Suite 250
City: Raleigh State: NC Zip: 27606
Project Contact: E-mail: Lane.Dorman@erm.com
Phone#: 919-233-4501
Sampler(s) Name(s) (Printed): T. Naumann / G. Kanellis

Project Information

Project Name: ECI Whitsett
Street: 1239 Rock Creek Dairy Rd
City: Whitsett State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information / **Matrix Codes**

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	NaSH	VOC 8260 + 10 TICs	1,4 Dioxane 8260 SIM	Total Mn, Fe	TOC	Sulfate, Nitrite, Nitrate	Sulfide	TCLP VOC	SPLP VOC	HSL metals *			LAB USE ONLY
1	GP-55@0.5'	6/6/14	1100	GK	SO	4		1						1	2	X	X						X				
2	Drum-1	↓	1300	↓	↓	1		1														X					
3	Drum-2		1305			1		1														X					
4	MW-11		09:40	TN	GW	8		1	8		2		2			X	X	X	X	X	X			X			
5	DW-1		1400	TN	GW	12		1	8		1		2			X	X	X	X	X	X						
6	Trip Blank	↓	—	—	—	2										X	X										

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

RALEIGH.NC

SVC CENTER

Comments / Remarks

* Hold HSL metals analysis until approval by ERM project manager

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	6/6/14 1450	2 [signature]	3 [signature]	6/6/14 1730	4 EX
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5 FE 06-07-14	930	6 [signature]	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.0

4.1 4

FA15635: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15635 CLIENT: ERM PROJECT: Eli Whitsett

DATE/TIME RECEIVED: 06-07-15 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7702 2607 3794

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.0

SAMPLE INFORMATION

- [x] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Received 2 bottles SULFides samples 4,5

TECHNICIAN SIGNATURE/DATE [signature] 06-07-14 REVIEWER SIGNATURE/DATE [signature] 06/07/14

RS 04/14 receipt confirmation 041514.xls

4.1

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FA15635: Chain of Custody

Page 2 of 4

From: (919) 208-7171
Brent Rader
Accutest Labs Southeast
6308 - C Angus Drive

Raleigh, NC 27617

Origin ID: RZZA

FedEx Express

J1410140207O326

Ship Date: 06JUN14
ActWgt: 15.0 LB
CAD: 9855222/INET3490

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (407) 425-6700

BILL SENDER

Sample Receiving
Accutest SE
4405 VINELAND RD.
STE. C15
ORLANDO, FL 32811

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 **7702 2607 3794**

X0 TIXA

32811
FL-US
MCO

522G5/8BC4/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Job Change Order: FA15635_6/18/2014

Requested Date:	6/18/2014	**Received Date:**	6/7/2014
Account Name:	ERM	**Due Date:**	6/17/2014
Project	ECI Whitsett; 1239 Rock Creek Dairy Rd,	**Deliverable:**	COMMB
CSR:	JDS	**TAT (Days):**	1

Sample #:
FA15635-1,1L

Change: Per client, please change the sample IDs for the samples that start with "GP" and make them "WP". Thank you.

Above Changes Per: client, Greg Kanellis, via e-mail **Date:** 6/18/2014

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1024-MB	Z26285.D	1	06/09/14	AH	n/a	n/a	VZ1024

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	107%	74-125%
2037-26-5	Toluene-D8	91%	88-111%

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2144-MB	F0064830.D	1	06/12/14	AH	n/a	n/a	VF2144

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15635-1, FA15635-7

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	98%	75-126%
17060-07-0	1,2-Dichloroethane-D4	111%	72-135%

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3266-MB	H0085855.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3266-MB	H0085855.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3266-MB	H0085855.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	75-124%
2037-26-5	Toluene-D8	92%	75-126%
460-00-4	4-Bromofluorobenzene	95%	71-133%
17060-07-0	1,2-Dichloroethane-D4	94%	72-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/kg	

(a) No TICs detected.

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3169-MB	M75025.D	1	06/12/14	RB	n/a	n/a	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3169-MB	M75025.D	1	06/12/14	RB	n/a	n/a	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	92%	85-112%
460-00-4	4-Bromofluorobenzene	93%	83-118%

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3381-MB	N0077226.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3381-MB	N0077226.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3381-MB	N0077226.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.39	470	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Leachate Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51989-LB	N0077256.D	10	06/18/14	RB	06/16/14	OP51989	VN3382

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-2, FA15635-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	2.4	ug/l	
108-90-7	Chlorobenzene	ND	10	2.4	ug/l	
67-66-3	Chloroform	ND	10	3.1	ug/l	
56-23-5	Carbon tetrachloride	ND	10	4.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	2.4	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	15	ug/l	
127-18-4	Tetrachloroethylene	ND	10	2.6	ug/l	
79-01-6	Trichloroethylene	ND	10	3.0	ug/l	
75-01-4	Vinyl chloride	ND	10	3.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Leachate Blank Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51989-LB	N0077285.D	10	06/19/14	RB	06/16/14	OP51989	VN3385

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-2, FA15635-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	2.4	ug/l	
108-90-7	Chlorobenzene	ND	10	2.4	ug/l	
67-66-3	Chloroform	ND	10	3.1	ug/l	
56-23-5	Carbon tetrachloride	ND	10	4.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	2.4	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	15	ug/l	
127-18-4	Tetrachloroethylene	ND	10	2.6	ug/l	
79-01-6	Trichloroethylene	ND	10	3.0	ug/l	
75-01-4	Vinyl chloride	ND	10	3.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1024-BS	Z26283.D	1	06/09/14	AH	n/a	n/a	VZ1024

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	40.3	81	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	91%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2144-BS	F0064829.D	1	06/12/14	AH	n/a	n/a	VF2144

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15635-1, FA15635-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
123-91-1	1,4-Dioxane	50	46.7	93	56-152

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	96%	75-126%
17060-07-0	1,2-Dichloroethane-D4	115%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3266-BS	H0085854.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	233	93	61-152
107-02-8	Acrolein	250	243	97	48-178
107-13-1	Acrylonitrile	250	228	91	66-134
71-43-2	Benzene	50	50.6	101	76-126
108-86-1	Bromobenzene	50	49.5	99	76-122
74-97-5	Bromochloromethane	50	49.3	99	77-120
75-27-4	Bromodichloromethane	50	57.4	115	74-130
75-25-2	Bromoform	50	43.9	88	76-127
104-51-8	n-Butylbenzene	50	50.0	100	71-128
135-98-8	sec-Butylbenzene	50	55.3	111	79-135
98-06-6	tert-Butylbenzene	50	54.0	108	77-133
108-90-7	Chlorobenzene	50	53.6	107	81-129
75-00-3	Chloroethane	50	52.0	104	68-133
67-66-3	Chloroform	50	51.1	102	72-123
95-49-8	o-Chlorotoluene	50	53.8	108	77-129
106-43-4	p-Chlorotoluene	50	55.6	111	80-134
110-75-8	2-Chloroethyl vinyl ether	250	236	94	45-159
75-15-0	Carbon disulfide	50	52.8	106	72-122
56-23-5	Carbon tetrachloride	50	59.3	119	78-133
75-34-3	1,1-Dichloroethane	50	51.3	103	73-125
75-35-4	1,1-Dichloroethylene	50	49.7	99	81-136
563-58-6	1,1-Dichloropropene	50	53.5	107	75-130
96-12-8	1,2-Dibromo-3-chloropropane	50	42.5	85	70-137
106-93-4	1,2-Dibromoethane	50	48.1	96	77-126
107-06-2	1,2-Dichloroethane	50	50.1	100	74-128
78-87-5	1,2-Dichloropropane	50	50.4	101	74-125
142-28-9	1,3-Dichloropropane	50	48.4	97	76-122
594-20-7	2,2-Dichloropropane	50	61.7	123	77-133
124-48-1	Dibromochloromethane	50	46.6	93	76-127
75-71-8	Dichlorodifluoromethane	50	55.0	110	68-168
156-59-2	cis-1,2-Dichloroethylene	50	50.1	100	74-126
10061-01-5	cis-1,3-Dichloropropene	50	51.4	103	80-123
541-73-1	m-Dichlorobenzene	50	55.5	111	81-129
95-50-1	o-Dichlorobenzene	50	53.8	108	80-129
106-46-7	p-Dichlorobenzene	50	51.6	103	76-130
156-60-5	trans-1,2-Dichloroethylene	50	51.4	103	70-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3266-BS	H0085854.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	46.9	94	75-131
100-41-4	Ethylbenzene	50	50.1	100	77-123
591-78-6	2-Hexanone	250	215	86	72-133
87-68-3	Hexachlorobutadiene	50	52.2	104	74-136
98-82-8	Isopropylbenzene	50	54.5	109	80-136
99-87-6	p-Isopropyltoluene	50	54.4	109	77-131
108-10-1	4-Methyl-2-pentanone	250	215	86	76-132
74-83-9	Methyl bromide	50	54.9	110	65-139
74-87-3	Methyl chloride	50	52.3	105	71-144
74-95-3	Methylene bromide	50	49.2	98	74-124
75-09-2	Methylene chloride	50	49.4	99	74-137
78-93-3	Methyl ethyl ketone	250	223	89	75-137
1634-04-4	Methyl Tert Butyl Ether	50	52.9	106	77-120
91-20-3	Naphthalene	50	46.3	93	79-129
103-65-1	n-Propylbenzene	50	55.1	110	80-135
100-42-5	Styrene	50	50.7	101	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	49.7	99	78-126
71-55-6	1,1,1-Trichloroethane	50	55.1	110	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	47.5	95	71-126
79-00-5	1,1,2-Trichloroethane	50	46.8	94	74-124
87-61-6	1,2,3-Trichlorobenzene	50	49.1	98	77-128
96-18-4	1,2,3-Trichloropropane	50	45.1	90	74-127
120-82-1	1,2,4-Trichlorobenzene	50	50.5	101	78-130
95-63-6	1,2,4-Trimethylbenzene	50	50.7	101	74-123
108-67-8	1,3,5-Trimethylbenzene	50	50.6	101	73-122
127-18-4	Tetrachloroethylene	50	50.0	100	79-130
108-88-3	Toluene	50	48.8	98	76-124
79-01-6	Trichloroethylene	50	50.5	101	75-128
75-69-4	Trichlorofluoromethane	50	58.0	116	73-145
75-01-4	Vinyl chloride	50	50.0	100	76-141
108-05-4	Vinyl Acetate	250	182	73	48-164
	m,p-Xylene	100	104	104	80-128
95-47-6	o-Xylene	50	53.2	106	80-132

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3266-BS	H0085854.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	75-124%
2037-26-5	Toluene-D8	94%	75-126%
460-00-4	4-Bromofluorobenzene	95%	71-133%
17060-07-0	1,2-Dichloroethane-D4	89%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3169-BS	M75023.D	1	06/12/14	RB	n/a	n/a	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.2	97	81-122
75-27-4	Bromodichloromethane	25	22.3	89	79-123
75-25-2	Bromoform	25	22.6	90	66-123
108-90-7	Chlorobenzene	25	24.5	98	82-124
75-00-3	Chloroethane	25	24.6	98	62-144
67-66-3	Chloroform	25	22.5	90	80-124
75-15-0	Carbon disulfide	25	20.4	82	66-148
56-23-5	Carbon tetrachloride	25	23.6	94	76-136
75-34-3	1,1-Dichloroethane	25	24.3	97	81-122
75-35-4	1,1-Dichloroethylene	25	25.5	102	78-137
107-06-2	1,2-Dichloroethane	25	22.4	90	75-125
78-87-5	1,2-Dichloropropane	25	23.3	93	76-124
124-48-1	Dibromochloromethane	25	22.0	88	78-122
156-59-2	cis-1,2-Dichloroethylene	25	23.5	94	78-120
10061-01-5	cis-1,3-Dichloropropene	25	23.0	92	75-118
156-60-5	trans-1,2-Dichloroethylene	25	22.8	91	76-127
10061-02-6	trans-1,3-Dichloropropene	25	21.9	88	80-120
100-41-4	Ethylbenzene	25	22.5	90	81-121
591-78-6	2-Hexanone	125	130	104	61-129
108-10-1	4-Methyl-2-pentanone	125	110	88	66-122
74-83-9	Methyl bromide	25	21.2	85	59-143
74-87-3	Methyl chloride	25	31.1	124	50-159
75-09-2	Methylene chloride	25	26.3	105	69-135
78-93-3	Methyl ethyl ketone	125	128	102	56-143
100-42-5	Styrene	25	23.4	94	78-119
71-55-6	1,1,1-Trichloroethane	25	23.0	92	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	22.0	88	72-120
79-00-5	1,1,2-Trichloroethane	25	22.5	90	76-119
127-18-4	Tetrachloroethylene	25	25.5	102	76-135
108-88-3	Toluene	25	22.6	90	80-120
79-01-6	Trichloroethylene	25	22.9	92	81-126
75-01-4	Vinyl chloride	25	26.0	104	69-159
1330-20-7	Xylene (total)	75	71.4	95	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3169-BS	M75023.D	1	06/12/14	RB	n/a	n/a	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	84%* [a]	85-112%
460-00-4	4-Bromofluorobenzene	92%	83-118%

(a) Outside control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3381-BS	N0077225.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	188	150*	50-147
107-02-8	Acrolein	125	99.1	79	31-154
107-13-1	Acrylonitrile	125	126	101	58-126
71-43-2	Benzene	25	25.0	100	81-122
108-86-1	Bromobenzene	25	23.7	95	80-121
74-97-5	Bromochloromethane	25	25.0	100	76-123
75-27-4	Bromodichloromethane	25	26.7	107	79-123
75-25-2	Bromoform	25	24.6	98	66-123
104-51-8	n-Butylbenzene	25	25.0	100	79-126
135-98-8	sec-Butylbenzene	25	25.5	102	83-133
98-06-6	tert-Butylbenzene	25	26.6	106	80-133
108-90-7	Chlorobenzene	25	26.0	104	82-124
75-00-3	Chloroethane	25	25.4	102	62-144
67-66-3	Chloroform	25	27.6	110	80-124
95-49-8	o-Chlorotoluene	25	24.8	99	81-127
106-43-4	p-Chlorotoluene	25	25.5	102	83-130
110-75-8	2-Chloroethyl vinyl ether	125	119	95	56-122
75-15-0	Carbon disulfide	25	25.0	100	66-148
56-23-5	Carbon tetrachloride	25	31.8	127	76-136
75-34-3	1,1-Dichloroethane	25	26.4	106	81-122
75-35-4	1,1-Dichloroethylene	25	32.2	129	78-137
563-58-6	1,1-Dichloropropene	25	28.4	114	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	23.7	95	64-123
106-93-4	1,2-Dibromoethane	25	24.1	96	75-120
107-06-2	1,2-Dichloroethane	25	28.0	112	75-125
78-87-5	1,2-Dichloropropane	25	24.2	97	76-124
142-28-9	1,3-Dichloropropane	25	23.6	94	80-118
594-20-7	2,2-Dichloropropane	25	31.9	128	74-139
124-48-1	Dibromochloromethane	25	24.6	98	78-122
75-71-8	Dichlorodifluoromethane	25	30.2	121	42-167
156-59-2	cis-1,2-Dichloroethylene	25	26.3	105	78-120
10061-01-5	cis-1,3-Dichloropropene	25	26.5	106	75-118
541-73-1	m-Dichlorobenzene	25	25.3	101	84-125
95-50-1	o-Dichlorobenzene	25	25.7	103	82-124
106-46-7	p-Dichlorobenzene	25	23.2	93	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.2	109	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3381-BS	N0077225.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	27.2	109	80-120
100-41-4	Ethylbenzene	25	24.8	99	81-121
591-78-6	2-Hexanone	125	137	110	61-129
87-68-3	Hexachlorobutadiene	25	27.0	108	75-142
98-82-8	Isopropylbenzene	25	28.6	114	83-132
99-87-6	p-Isopropyltoluene	25	24.7	99	79-130
108-10-1	4-Methyl-2-pentanone	125	102	82	66-122
74-83-9	Methyl bromide	25	26.8	107	59-143
74-87-3	Methyl chloride	25	28.1	112	50-159
74-95-3	Methylene bromide	25	25.8	103	78-119
75-09-2	Methylene chloride	25	24.2	97	69-135
78-93-3	Methyl ethyl ketone	125	140	112	56-143
1634-04-4	Methyl Tert Butyl Ether	25	25.0	100	72-117
91-20-3	Naphthalene	25	21.3	85	63-132
103-65-1	n-Propylbenzene	25	24.9	100	82-133
100-42-5	Styrene	25	25.3	101	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.9	104	77-122
71-55-6	1,1,1-Trichloroethane	25	30.5	122	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	21.7	87	72-120
79-00-5	1,1,2-Trichloroethane	25	22.9	92	76-119
87-61-6	1,2,3-Trichlorobenzene	25	25.2	101	68-131
96-18-4	1,2,3-Trichloropropane	25	23.7	95	77-120
120-82-1	1,2,4-Trichlorobenzene	25	25.7	103	73-129
95-63-6	1,2,4-Trimethylbenzene	25	22.7	91	79-120
108-67-8	1,3,5-Trimethylbenzene	25	24.4	98	79-120
127-18-4	Tetrachloroethylene	25	26.1	104	76-135
108-88-3	Toluene	25	24.1	96	80-120
79-01-6	Trichloroethylene	25	26.2	105	81-126
75-69-4	Trichlorofluoromethane	25	32.5	130	71-156
75-01-4	Vinyl chloride	25	27.1	108	69-159
108-05-4	Vinyl Acetate	125	146	117	43-154
	m,p-Xylene	50	50.7	101	79-126
95-47-6	o-Xylene	25	25.7	103	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3381-BS	N0077225.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3380-BS	N0077225.D	1	06/17/14	RB	n/a	n/a	VN3380

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	188	150*	50-147

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3382-BS	N0077254.D	10	06/18/14	RB	n/a	n/a	VN3382

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-2, FA15635-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	250	261	104	81-122
108-90-7	Chlorobenzene	250	271	108	82-124
67-66-3	Chloroform	250	291	116	80-124
56-23-5	Carbon tetrachloride	250	344	138*	76-136
75-35-4	1,1-Dichloroethylene	250	366	146*	78-137
107-06-2	1,2-Dichloroethane	250	297	119	75-125
106-46-7	p-Dichlorobenzene	250	241	96	78-120
78-93-3	Methyl ethyl ketone	1250	919	74	56-143
127-18-4	Tetrachloroethylene	250	275	110	76-135
79-01-6	Trichloroethylene	250	271	108	81-126
75-01-4	Vinyl chloride	250	267	107	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15630-1MS	Z26294.D	1	06/09/14	AH	n/a	n/a	VZ1024
FA15630-1MSD	Z26295.D	1	06/09/14	AH	n/a	n/a	VZ1024
FA15630-1	Z26293.D	1	06/09/14	AH	n/a	n/a	VZ1024

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	FA15630-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	2.2		50	45.6	87	50	49.3	94	8	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA15630-1	Limits
17060-07-0	1,2-Dichloroethane-D4	110%	107%	108%	74-125%
2037-26-5	Toluene-D8	88%	91%	88%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15635-1MS	F0064833.D	1	06/12/14	AH	n/a	n/a	VF2144
FA15635-1MSD	F0064834.D	1	06/12/14	AH	n/a	n/a	VF2144
FA15635-1	F0064832.D	1	06/12/14	AH	n/a	n/a	VF2144

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15635-1, FA15635-7

CAS No.	Compound	FA15635-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		70.5	63.2	90	69.6	79.2	114	22	56-152/37

CAS No.	Surrogate Recoveries	MS	MSD	FA15635-1	Limits
2037-26-5	Toluene-D8	97%	94%	94%	75-126%
17060-07-0	1,2-Dichloroethane-D4	110%	108%	120%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15632-3MS	H0085871.D	1	06/09/14	EP	n/a	n/a	VH3266
FA15632-3MSD	H0085872.D	1	06/09/14	EP	n/a	n/a	VH3266
FA15632-3	H0085857.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Compound	FA15632-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	34.3	J	389	401	94	389	383	90	5	61-152/27
107-02-8	Acrolein	ND		389	271	70	389	310	80	13	48-178/37
107-13-1	Acrylonitrile	ND		389	370	95	389	355	91	4	66-134/26
71-43-2	Benzene	ND		77.7	68.6	88	77.7	70.7	91	3	76-126/26
108-86-1	Bromobenzene	ND		77.7	68.1	88	77.7	71.9	92	5	76-122/32
74-97-5	Bromochloromethane	ND		77.7	70.9	91	77.7	71.9	92	1	77-120/24
75-27-4	Bromodichloromethane	ND		77.7	78.5	101	77.7	80.3	103	2	74-130/25
75-25-2	Bromoform	ND		77.7	65.3	84	77.7	67.2	86	3	76-127/26
104-51-8	n-Butylbenzene	ND		77.7	61.3	79	77.7	63.4	82	3	71-128/35
135-98-8	sec-Butylbenzene	ND		77.7	69.7	90	77.7	72.6	93	4	79-135/34
98-06-6	tert-Butylbenzene	ND		77.7	67.8	87	77.7	72.1	93	6	77-133/34
108-90-7	Chlorobenzene	ND		77.7	70.7	91	77.7	73.8	95	4	81-129/29
75-00-3	Chloroethane	ND		77.7	68.3	88	77.7	72.8	94	6	68-133/29
67-66-3	Chloroform	ND		77.7	69.5	89	77.7	72.3	93	4	72-123/26
95-49-8	o-Chlorotoluene	ND		77.7	69.3	89	77.7	72.7	94	5	77-129/33
106-43-4	p-Chlorotoluene	ND		77.7	72.1	93	77.7	74.8	96	4	80-134/33
110-75-8	2-Chloroethyl vinyl ether	ND		389	339	87	389	324	83	5	45-159/26
75-15-0	Carbon disulfide	ND		77.7	64.0	82	77.7	67.9	87	6	72-122/29
56-23-5	Carbon tetrachloride	ND		77.7	76.9	99	77.7	79.0	102	3	78-133/29
75-34-3	1,1-Dichloroethane	ND		77.7	68.3	88	77.7	71.3	92	4	73-125/27
75-35-4	1,1-Dichloroethylene	ND		77.7	63.4	82	77.7	68.4	88	8	81-136/28
563-58-6	1,1-Dichloropropene	ND		77.7	70.2	90	77.7	71.8	92	2	75-130/28
96-12-8	1,2-Dibromo-3-chloropropane	ND		77.7	65.8	85	77.7	67.2	86	2	70-137/29
106-93-4	1,2-Dibromoethane	ND		77.7	71.4	92	77.7	72.3	93	1	77-126/26
107-06-2	1,2-Dichloroethane	ND		77.7	72.3	93	77.7	73.6	95	2	74-128/23
78-87-5	1,2-Dichloropropane	ND		77.7	70.4	91	77.7	71.5	92	2	74-125/25
142-28-9	1,3-Dichloropropane	ND		77.7	69.3	89	77.7	71.8	92	4	76-122/26
594-20-7	2,2-Dichloropropane	ND		77.7	78.6	101	77.7	81.6	105	4	77-133/28
124-48-1	Dibromochloromethane	ND		77.7	66.2	85	77.7	68.7	88	4	76-127/27
75-71-8	Dichlorodifluoromethane	ND		77.7	68.9	89	77.7	71.6	92	4	68-168/29
156-59-2	cis-1,2-Dichloroethylene	ND		77.7	67.4	87	77.7	70.8	91	5	74-126/26
10061-01-5	cis-1,3-Dichloropropene	ND		77.7	69.7	90	77.7	69.2	89	1	80-123/26
541-73-1	m-Dichlorobenzene	ND		77.7	71.7	92	77.7	75.0	96	4	81-129/33
95-50-1	o-Dichlorobenzene	ND		77.7	72.2	93	77.7	74.7	96	3	80-129/32
106-46-7	p-Dichlorobenzene	ND		77.7	68.0	87	77.7	70.5	91	4	76-130/32
156-60-5	trans-1,2-Dichloroethylene	ND		77.7	65.1	84	77.7	67.9	87	4	70-127/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15632-3MS	H0085871.D	1	06/09/14	EP	n/a	n/a	VH3266
FA15632-3MSD	H0085872.D	1	06/09/14	EP	n/a	n/a	VH3266
FA15632-3	H0085857.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Compound	FA15632-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		77.7	63.3	81	77.7	64.5	83	2	75-131/28
100-41-4	Ethylbenzene	ND		77.7	66.2	85	77.7	68.9	89	4	77-123/31
591-78-6	2-Hexanone	ND		389	349	90	389	334	86	4	72-133/26
87-68-3	Hexachlorobutadiene	ND		77.7	57.4	74	77.7	63.3	81	10	74-136/38
98-82-8	Isopropylbenzene	ND		77.7	70.5	91	77.7	72.7	94	3	80-136/32
99-87-6	p-Isopropyltoluene	ND		77.7	69.0	89	77.7	72.0	93	4	77-131/34
108-10-1	4-Methyl-2-pentanone	ND		389	349	90	389	345	89	1	76-132/26
74-83-9	Methyl bromide	ND		77.7	71.0	91	77.7	76.2	98	7	65-139/31
74-87-3	Methyl chloride	ND		77.7	65.5	84	77.7	71.5	92	9	71-144/27
74-95-3	Methylene bromide	ND		77.7	71.9	92	77.7	73.0	94	2	74-124/24
75-09-2	Methylene chloride	ND		77.7	70.6	91	77.7	74.5	96	5	74-137/28
78-93-3	Methyl ethyl ketone	ND		389	370	95	389	359	92	3	75-137/25
1634-04-4	Methyl Tert Butyl Ether	ND		77.7	78.8	101	77.7	80.9	104	3	77-120/24
91-20-3	Naphthalene	ND		77.7	65.5	84	77.7	69.1	89	5	79-129/33
103-65-1	n-Propylbenzene	ND		77.7	69.1	89	77.7	72.5	93	5	80-135/33
100-42-5	Styrene	ND		77.7	67.9	87	77.7	71.0	91	4	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		77.7	67.4	87	77.7	70.5	91	4	78-126/27
71-55-6	1,1,1-Trichloroethane	ND		77.7	72.4	93	77.7	75.0	96	4	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		77.7	71.7	92	77.7	72.1	93	1	71-126/30
79-00-5	1,1,2-Trichloroethane	ND		77.7	68.0	87	77.7	70.1	90	3	74-124/28
87-61-6	1,2,3-Trichlorobenzene	ND		77.7	63.7	82	77.7	67.9	87	6	77-128/35
96-18-4	1,2,3-Trichloropropane	ND		77.7	72.7	94	77.7	71.8	92	1	74-127/27
120-82-1	1,2,4-Trichlorobenzene	ND		77.7	64.5	83	77.7	67.7	87	5	78-130/34
95-63-6	1,2,4-Trimethylbenzene	ND		77.7	67.6	87	77.7	69.4	89	3	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND		77.7	66.2	85	77.7	69.2	89	4	73-122/33
127-18-4	Tetrachloroethylene	ND		77.7	64.2	83	77.7	66.4	85	3	79-130/31
108-88-3	Toluene	ND		77.7	64.7	83	77.7	68.2	88	5	76-124/30
79-01-6	Trichloroethylene	ND		77.7	67.7	87	77.7	69.5	89	3	75-128/27
75-69-4	Trichlorofluoromethane	ND		77.7	69.1	89	77.7	74.8	96	8	73-145/31
75-01-4	Vinyl chloride	ND		77.7	64.1	82	77.7	68.7	88	7	76-141/27
108-05-4	Vinyl Acetate	ND		389	265	68	389	252	65	5	48-164/37
	m,p-Xylene	ND		155	138	89	155	144	93	4	80-128/30
95-47-6	o-Xylene	ND		77.7	70.4	91	77.7	74.5	96	6	80-132/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15632-3MS	H0085871.D	1	06/09/14	EP	n/a	n/a	VH3266
FA15632-3MSD	H0085872.D	1	06/09/14	EP	n/a	n/a	VH3266
FA15632-3	H0085857.D	1	06/09/14	EP	n/a	n/a	VH3266

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1, FA15635-7

CAS No.	Surrogate Recoveries	MS	MSD	FA15632-3	Limits
1868-53-7	Dibromofluoromethane	93%	93%	90%	75-124%
2037-26-5	Toluene-D8	91%	92%	90%	75-126%
460-00-4	4-Bromofluorobenzene	96%	94%	94%	71-133%
17060-07-0	1,2-Dichloroethane-D4	91%	86%	105%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15618-1LMS	M75032.D	1	06/12/14	RB	n/a	n/a	VM3169
FA15618-1LMSD	M75033.D	1	06/12/14	RB	n/a	n/a	VM3169
FA15618-1L	M75026.D	1	06/12/14	RB	06/09/14	OP51903	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Compound	FA15618-1L ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.36	I	25	25.9	102	25	25.8	102	0	81-122/14
75-27-4	Bromodichloromethane	1.0 U		25	23.4	94	25	23.9	96	2	79-123/19
75-25-2	Bromoform	1.0 U		25	23.5	94	25	23.1	92	2	66-123/21
108-90-7	Chlorobenzene	1.0 U		25	26.4	106	25	26.4	106	0	82-124/14
75-00-3	Chloroethane	2.0 U		25	21.0	84	25	19.2	77	9	62-144/20
67-66-3	Chloroform	1.0 U		25	24.5	98	25	23.6	94	4	80-124/15
75-15-0	Carbon disulfide	2.0 U		25	24.6	98	25	23.7	95	4	66-148/23
56-23-5	Carbon tetrachloride	1.0 U		25	24.6	98	25	25.0	100	2	76-136/23
75-34-3	1,1-Dichloroethane	1.0 U		25	25.1	100	25	25.3	101	1	81-122/15
75-35-4	1,1-Dichloroethylene	1.0 U		25	28.4	114	25	27.6	110	3	78-137/18
107-06-2	1,2-Dichloroethane	1.0 U		25	23.7	95	25	23.9	96	1	75-125/14
78-87-5	1,2-Dichloropropane	1.0 U		25	24.7	99	25	24.6	98	0	76-124/14
124-48-1	Dibromochloromethane	1.0 U		25	23.4	94	25	24.1	96	3	78-122/19
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	25.0	100	25	24.1	96	4	78-120/15
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	24.5	98	25	24.7	99	1	75-118/23
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	24.3	97	25	23.4	94	4	76-127/17
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	23.4	94	25	23.8	95	2	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	24.7	99	25	24.4	98	1	81-121/14
591-78-6	2-Hexanone	10 U		125	144	115	125	149	119	3	61-129/18
108-10-1	4-Methyl-2-pentanone	5.0 U		125	109	87	125	113	90	4	66-122/16
74-83-9	Methyl bromide	2.0 U		25	20.5	82	25	20.0	80	2	59-143/19
74-87-3	Methyl chloride	2.0 U		25	28.2	113	25	28.5	114	1	50-159/19
75-09-2	Methylene chloride	5.0 U		25	28.3	113	25	28.2	113	0	69-135/16
78-93-3	Methyl ethyl ketone	5.0 U		125	135	108	125	141	113	4	56-143/18
100-42-5	Styrene	1.0 U		25	25.4	102	25	25.5	102	0	78-119/23
71-55-6	1,1,1-Trichloroethane	1.0 U		25	25.6	102	25	24.9	100	3	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	20.4	82	25	21.0	84	3	72-120/14
79-00-5	1,1,2-Trichloroethane	1.0 U		25	21.7	87	25	22.9	92	5	76-119/14
127-18-4	Tetrachloroethylene	0.61	I	25	27.4	107	25	27.0	106	1	76-135/16
108-88-3	Toluene	2.1		25	26.3	97	25	26.0	96	1	80-120/14
79-01-6	Trichloroethylene	1.0 U		25	25.4	102	25	26.4	106	4	81-126/15
75-01-4	Vinyl chloride	1.0 U		25	24.0	96	25	23.5	94	2	69-159/18
1330-20-7	Xylene (total)	1.3	I	75	80.0	105	75	79.4	104	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15618-1LMS	M75032.D	1	06/12/14	RB	n/a	n/a	VM3169
FA15618-1LMSD	M75033.D	1	06/12/14	RB	n/a	n/a	VM3169
FA15618-1L	M75026.D	1	06/12/14	RB	06/09/14	OP51903	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Surrogate Recoveries	MS	MSD	FA15618-1L	Limits
1868-53-7	Dibromofluoromethane	96%	99%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	94%	91%	79-125%
2037-26-5	Toluene-D8	87%	89%	89%	85-112%
460-00-4	4-Bromofluorobenzene	94%	95%	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15673-1LMS	N0077234.D	1	06/17/14	RB	n/a	n/a	VN3380
FA15673-1LMSD	N0077235.D	1	06/17/14	RB	n/a	n/a	VN3380
FA15673-1L	N0077230.D	1	06/17/14	RB	06/13/14	OP51972	VN3380

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Compound	FA15673-1L ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25	U	125	203	162*	125	194	155*	5	50-147/21

CAS No.	Surrogate Recoveries	MS	MSD	FA15673-1L	Limits
1868-53-7	Dibromofluoromethane	107%	104%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	115%	110%	112%	79-125%
2037-26-5	Toluene-D8	95%	97%	96%	85-112%
460-00-4	4-Bromofluorobenzene	95%	96%	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15620-1MS	N0077245.D	1	06/17/14	RB	n/a	n/a	VN3381
FA15620-1MSD	N0077246.D	1	06/17/14	RB	n/a	n/a	VN3381
FA15620-1	N0077236.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	FA15620-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25	U	125	96.1	77	125	104	83	8	50-147/21
107-02-8	Acrolein	20	U	125	125	100	125	117	94	7	31-154/29
107-13-1	Acrylonitrile	10	U	125	133	106	125	138	110	4	58-126/16
71-43-2	Benzene	1.0	U	25	25.3	101	25	25.0	100	1	81-122/14
108-86-1	Bromobenzene	1.0	U	25	24.1	96	25	23.3	93	3	80-121/14
74-97-5	Bromochloromethane	1.0	U	25	25.5	102	25	25.9	104	2	76-123/14
75-27-4	Bromodichloromethane	1.0	U	25	28.1	112	25	27.0	108	4	79-123/19
75-25-2	Bromoform	1.0	U	25	23.8	95	25	23.8	95	0	66-123/21
104-51-8	n-Butylbenzene	1.0	U	25	25.2	101	25	24.3	97	4	79-126/16
135-98-8	sec-Butylbenzene	1.0	U	25	25.2	101	25	24.5	98	3	83-133/16
98-06-6	tert-Butylbenzene	1.0	U	25	26.4	106	25	25.9	104	2	80-133/16
108-90-7	Chlorobenzene	1.0	U	25	25.9	104	25	25.7	103	1	82-124/14
75-00-3	Chloroethane	2.0	U	25	24.0	96	25	24.9	100	4	62-144/20
67-66-3	Chloroform	1.0	U	25	28.6	114	25	28.3	113	1	80-124/15
95-49-8	o-Chlorotoluene	1.0	U	25	25.4	102	25	24.5	98	4	81-127/15
106-43-4	p-Chlorotoluene	1.0	U	25	25.5	102	25	25.1	100	2	83-130/15
110-75-8	2-Chloroethyl vinyl ether	5.0	U	125	3.5	3*	125	ND	0*	200*	56-122/23
75-15-0	Carbon disulfide	2.0	U	25	20.9	84	25	19.8	79	5	66-148/23
56-23-5	Carbon tetrachloride	1.0	U	25	32.4	130	25	31.4	126	3	76-136/23
75-34-3	1,1-Dichloroethane	1.0	U	25	26.4	106	25	26.1	104	1	81-122/15
75-35-4	1,1-Dichloroethylene	1.0	U	25	32.7	131	25	31.8	127	3	78-137/18
563-58-6	1,1-Dichloropropene	1.0	U	25	29.5	118	25	28.5	114	3	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	25	26.8	107	25	27.9	112	4	64-123/18
106-93-4	1,2-Dibromoethane	1.0	U	25	24.3	97	25	24.6	98	1	75-120/13
107-06-2	1,2-Dichloroethane	1.0	U	25	30.9	124	25	30.4	122	2	75-125/14
78-87-5	1,2-Dichloropropane	1.0	U	25	24.3	97	25	23.3	93	4	76-124/14
142-28-9	1,3-Dichloropropane	1.0	U	25	23.3	93	25	23.4	94	0	80-118/13
594-20-7	2,2-Dichloropropane	1.0	U	25	33.6	134	25	32.4	130	4	74-139/17
124-48-1	Dibromochloromethane	1.0	U	25	23.9	96	25	23.3	93	3	78-122/19
75-71-8	Dichlorodifluoromethane	2.0	U	25	30.9	124	25	29.9	120	3	42-167/19
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	25.1	100	25	25.1	100	0	78-120/15
10061-01-5	cis-1,3-Dichloropropene	1.0	U	25	24.2	97	25	22.7	91	6	75-118/23
541-73-1	m-Dichlorobenzene	1.0	U	25	25.3	101	25	25.1	100	1	84-125/14
95-50-1	o-Dichlorobenzene	1.0	U	25	25.8	103	25	25.8	103	0	82-124/14
106-46-7	p-Dichlorobenzene	1.0	U	25	23.6	94	25	23.1	92	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	27.6	110	25	26.9	108	3	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15620-1MS	N0077245.D	1	06/17/14	RB	n/a	n/a	VN3381
FA15620-1MSD	N0077246.D	1	06/17/14	RB	n/a	n/a	VN3381
FA15620-1	N0077236.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Compound	FA15620-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0	U	25	26.2	105	25	26.0	104	1	80-120/22
100-41-4	Ethylbenzene	1.0	U	25	25.0	100	25	24.5	98	2	81-121/14
591-78-6	2-Hexanone	10	U	125	120	96	125	123	98	2	61-129/18
87-68-3	Hexachlorobutadiene	2.0	U	25	26.9	108	25	25.8	103	4	75-142/19
98-82-8	Isopropylbenzene	1.0	U	25	28.3	113	25	27.7	111	2	83-132/15
99-87-6	p-Isopropyltoluene	1.0	U	25	24.8	99	25	24.1	96	3	79-130/16
108-10-1	4-Methyl-2-pentanone	5.0	U	125	116	93	125	118	94	2	66-122/16
74-83-9	Methyl bromide	2.0	U	25	26.0	104	25	26.4	106	2	59-143/19
74-87-3	Methyl chloride	2.0	U	25	25.8	103	25	25.2	101	2	50-159/19
74-95-3	Methylene bromide	2.0	U	25	26.7	107	25	26.7	107	0	78-119/14
75-09-2	Methylene chloride	5.0	U	25	25.1	100	25	25.0	100	0	69-135/16
78-93-3	Methyl ethyl ketone	5.0	U	125	110	88	125	111	89	1	56-143/18
1634-04-4	Methyl Tert Butyl Ether	1.0	U	25	25.1	100	25	26.3	105	5	72-117/14
91-20-3	Naphthalene	5.0	U	25	22.5	90	25	22.8	91	1	63-132/25
103-65-1	n-Propylbenzene	1.0	U	25	24.6	98	25	23.8	95	3	82-133/15
100-42-5	Styrene	1.0	U	25	24.5	98	25	24.1	96	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	25	25.6	102	25	26.0	104	2	77-122/19
71-55-6	1,1,1-Trichloroethane	1.0	U	25	32.0	128	25	31.3	125	2	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	25	23.2	93	25	23.8	95	3	72-120/14
79-00-5	1,1,2-Trichloroethane	1.0	U	25	23.6	94	25	23.1	92	2	76-119/14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	25.5	102	25	25.2	101	1	68-131/25
96-18-4	1,2,3-Trichloropropane	2.0	U	25	26.7	107	25	25.9	104	3	77-120/16
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	25.2	101	25	25.3	101	0	73-129/20
95-63-6	1,2,4-Trimethylbenzene	2.0	U	25	22.8	91	25	22.3	89	2	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0	U	25	24.1	96	25	23.6	94	2	79-120/19
127-18-4	Tetrachloroethylene	1.0	U	25	26.3	105	25	25.8	103	2	76-135/16
108-88-3	Toluene	1.0	U	25	23.8	95	25	23.0	92	3	80-120/14
79-01-6	Trichloroethylene	1.0	U	25	26.5	106	25	26.1	104	2	81-126/15
75-69-4	Trichlorofluoromethane	2.0	U	25	33.5	134	25	32.3	129	4	71-156/21
75-01-4	Vinyl chloride	1.0	U	25	25.0	100	25	25.1	100	0	69-159/18
108-05-4	Vinyl Acetate	10	U	125	174	139	125	175	140	1	43-154/14
	m,p-Xylene	2.0	U	50	50.8	102	50	49.8	100	2	79-126/15
95-47-6	o-Xylene	1.0	U	25	24.9	100	25	24.6	98	1	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15620-1MS	N0077245.D	1	06/17/14	RB	n/a	n/a	VN3381
FA15620-1MSD	N0077246.D	1	06/17/14	RB	n/a	n/a	VN3381
FA15620-1	N0077236.D	1	06/17/14	RB	n/a	n/a	VN3381

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-4, FA15635-5, FA15635-6

CAS No.	Surrogate Recoveries	MS	MSD	FA15620-1	Limits
1868-53-7	Dibromofluoromethane	108%	108%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	114%	113%	115%	79-125%
2037-26-5	Toluene-D8	96%	94%	97%	85-112%
460-00-4	4-Bromofluorobenzene	94%	95%	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15635-3MS	N0077260.D	10	06/18/14	RB	n/a	n/a	VN3382
FA15635-3MSD	N0077261.D	10	06/18/14	RB	n/a	n/a	VN3382
FA15635-3	N0077258.D	10	06/18/14	RB	06/16/14	OP51989	VN3382

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-2, FA15635-3

CAS No.	Compound	FA15635-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	261	104	250	245	98	6	81-122/14
108-90-7	Chlorobenzene	ND		250	268	107	250	255	102	5	82-124/14
67-66-3	Chloroform	ND		250	293	117	250	269	108	9	80-124/15
56-23-5	Carbon tetrachloride	ND		250	354	142*	250	314	126	12	76-136/23
75-35-4	1,1-Dichloroethylene	ND		250	333	133	250	309	124	7	78-137/18
107-06-2	1,2-Dichloroethane	ND		250	305	122	250	293	117	4	75-125/14
106-46-7	p-Dichlorobenzene	ND		250	246	98	250	230	92	7	78-120/15
78-93-3	Methyl ethyl ketone	ND		1250	956	76	1250	931	74	3	56-143/18
127-18-4	Tetrachloroethylene	ND		250	273	109	250	248	99	10	76-135/16
79-01-6	Trichloroethylene	ND		250	273	109	250	250	100	9	81-126/15
75-01-4	Vinyl chloride	ND		250	252	101	250	244	98	3	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA15635-3	Limits
1868-53-7	Dibromofluoromethane	106%	106%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	115%	113%	115%	79-125%
2037-26-5	Toluene-D8	96%	96%	96%	85-112%
460-00-4	4-Bromofluorobenzene	96%	97%	98%	83-118%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15618-1LDUP	M75027.D	1	06/12/14	RB	n/a	n/a	VM3169
FA15618-1L	M75026.D	1	06/12/14	RB	06/09/14	OP51903	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Compound	FA15618-1L ug/l	Q	DUP ug/l	Q	RPD	Limits
71-43-2	Benzene	0.36	I	2.6		151*	14
75-27-4	Bromodichloromethane	1.0 U		ND		nc	19
75-25-2	Bromoform	1.0 U		ND		nc	21
108-90-7	Chlorobenzene	1.0 U		ND		nc	14
75-00-3	Chloroethane	2.0 U		ND		nc	20
67-66-3	Chloroform	1.0 U		ND		nc	15
75-15-0	Carbon disulfide	2.0 U		ND		nc	23
56-23-5	Carbon tetrachloride	1.0 U		ND		nc	23
75-34-3	1,1-Dichloroethane	1.0 U		ND		nc	15
75-35-4	1,1-Dichloroethylene	1.0 U		ND		nc	18
107-06-2	1,2-Dichloroethane	1.0 U		ND		nc	14
78-87-5	1,2-Dichloropropane	1.0 U		ND		nc	14
124-48-1	Dibromochloromethane	1.0 U		ND		nc	19
156-59-2	cis-1,2-Dichloroethylene	1.0 U		ND		nc	15
10061-01-5	cis-1,3-Dichloropropene	1.0 U		ND		nc	23
156-60-5	trans-1,2-Dichloroethylene	1.0 U		ND		nc	17
10061-02-6	trans-1,3-Dichloropropene	1.0 U		ND		nc	22
100-41-4	Ethylbenzene	1.0 U		1.4		200*	14
591-78-6	2-Hexanone	10 U		ND		nc	18
108-10-1	4-Methyl-2-pentanone	5.0 U		ND		nc	16
74-83-9	Methyl bromide	2.0 U		ND		nc	19
74-87-3	Methyl chloride	2.0 U		ND		nc	19
75-09-2	Methylene chloride	5.0 U		ND		nc	16
78-93-3	Methyl ethyl ketone	5.0 U		ND		nc	18
100-42-5	Styrene	1.0 U		ND		nc	23
71-55-6	1,1,1-Trichloroethane	1.0 U		ND		nc	16
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		ND		nc	14
79-00-5	1,1,2-Trichloroethane	1.0 U		ND		nc	14
127-18-4	Tetrachloroethylene	0.61	I	ND		200*	16
108-88-3	Toluene	2.1		9.8		129*	14
79-01-6	Trichloroethylene	1.0 U		ND		nc	15
75-01-4	Vinyl chloride	1.0 U		ND		nc	18
1330-20-7	Xylene (total)	1.3	I	12.0		161*	15

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15618-1LDUP	M75027.D	1	06/12/14	RB	n/a	n/a	VM3169
FA15618-1L	M75026.D	1	06/12/14	RB	06/09/14	OP51903	VM3169

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Surrogate Recoveries	DUP	FA15618-1L	Limits
1868-53-7	Dibromofluoromethane	97%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	91%	79-125%
2037-26-5	Toluene-D8	88%	89%	85-112%
460-00-4	4-Bromofluorobenzene	96%	96%	83-118%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15673-1LDUP	N0077231.D	1	06/17/14	RB	n/a	n/a	VN3380
FA15673-1L	N0077230.D	1	06/17/14	RB	06/13/14	OP51972	VN3380

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-1L

CAS No.	Compound	FA15673-1L ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	25 U		ND		nc	21

CAS No.	Surrogate Recoveries	DUP	FA15673-1L	Limits
1868-53-7	Dibromofluoromethane	104%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	112%	79-125%
2037-26-5	Toluene-D8	96%	96%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	83-118%

(a) Associated BS recovery outside control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA15635
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15591-13LDUP	N0077274.D	10	06/18/14	RB	n/a	n/a	VN3382
FA15591-13L	N0077273.D	10	06/18/14	RB	06/16/14	OP51989	VN3382

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15635-2, FA15635-3

CAS No.	Compound	FA15591-13LDUP ug/l	Q	ug/l	Q	RPD	Limits
71-43-2	Benzene	10 U		ND		nc	14
108-90-7	Chlorobenzene	10 U		ND		nc	14
67-66-3	Chloroform	10 U		ND		nc	15
56-23-5	Carbon tetrachloride	10 U		ND		nc	23
75-35-4	1,1-Dichloroethylene	10 U		ND		nc	18
107-06-2	1,2-Dichloroethane	10 U		ND		nc	14
106-46-7	p-Dichlorobenzene	10 U		ND		nc	15
78-93-3	Methyl ethyl ketone	50 U		ND		nc	18
127-18-4	Tetrachloroethylene	10 U		ND		nc	16
79-01-6	Trichloroethylene	10 U		ND		nc	15
75-01-4	Vinyl chloride	10 U		ND		nc	18

CAS No.	Surrogate Recoveries	DUP	FA15591-13L	Limits
1868-53-7	Dibromofluoromethane	107%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	118%	116%	79-125%
2037-26-5	Toluene-D8	95%	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

(a) Associated BS recovery outside control limits.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27417
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					06/17/14		06/17/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	2	2.3				
Arsenic	10	2	2.4				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	17	17	-1.2	<300	9.2	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	0.0	<15	0.90	<15
Molybdenum	50	.5	.5				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2.3	2.3				
Silver	10	.65	.77				
Sodium	10000	500	500				
Strontium	10	.4	.4				
Thallium	10	1.5	2				
Tin	50	.7	1				
Titanium	10	.9	1				
Vanadium	50	.5	.5				
Zinc	20	3	3				

Associated samples MP27417: FA15635-4, FA15635-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27417
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:	06/17/14							06/17/14	
Metal	FA15620-1 Original	DUP	RPD	QC Limits	FA15620-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	173	159	8.4	0-20	173	26800	26000	102.4	80-120
Lead	anr								
Magnesium									
Manganese	7140	7160	0.3	0-20	7140	7570	500	86.0	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc									

Associated samples MP27417: FA15635-4, FA15635-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27417 | Methods: SW846 6010C
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 06/17/14

Metal	FA15620-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	173	26000	26000	99.3	3.0	20
Lead	anr					
Magnesium						
Manganese	7140	7430	500	58.0 (a)	1.9	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc						

Associated samples MP27417: FA15635-4, FA15635-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27417
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/17/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	27400	26000	105.4	80-120
Lead	anr			
Magnesium				
Manganese	526	500	105.2	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP27417: FA15635-4, FA15635-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27417
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/17/14

Metal	FA15620-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	173	150	13.4 (a)	0-10
Lead	anr			
Magnesium				
Manganese	7140	8050	12.6*(b)	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP27417: FA15635-4, FA15635-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27417
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/17/14

Metal	Sample ml	Final ml	FA15620-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	173.3	169.834	3048	0.2	150	3000	95.9	80-120
Lead										
Magnesium										
Manganese	9.8	10	7144	7001.12	6989	0.2	2.5	50	-24.2*(a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27417: FA15635-4, FA15635-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Nitrate	GP24124/GN61781	0.10	0.0	mg/l	2.5	2.34	93.6	90-110%
Nitrogen, Nitrite	GP24124/GN61781	0.10	0.0	mg/l	2.5	2.55	102.0	90-110%
Sulfate	GP24124/GN61781	2.0	0.0	mg/l	50	47.3	94.6	90-110%
Sulfide	GN61774			mg/l	13.3	13.2	99.3	76-112%
Sulfide	GN61774	1.0	0.0	mg/l	13.3	13.6	103.0	76-112%
Total Organic Carbon	GP24139/GN61820	1.0	0.0	mg/l	15	13.8	92.0	90-110%

Associated Samples:
Batch GN61774: FA15635-4, FA15635-5
Batch GP24124: FA15635-4, FA15635-5
Batch GP24139: FA15635-4, FA15635-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN61818	FA15645-1	%	84.5	84.4	0.1	0-5%
Total Organic Carbon	GP24139/GN61820	FA15635-4	mg/l	2.9	2.9	0.0	0-20%

Associated Samples:
Batch GN61818: FA15635-1
Batch GP24139: FA15635-4, FA15635-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Nitrate	GP24124/GN61781	FA15635-5	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP24124/GN61781	FA15635-5	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Sulfate	GP24124/GN61781	FA15635-5	mg/l	43.9	50	86.1	84.4N(a)	90-110%
Total Organic Carbon	GP24139/GN61820	FA15635-4	mg/l	2.9	15	16.9	93.3	90-110%

Associated Samples:
Batch GP24124: FA15635-4, FA15635-5
Batch GP24139: FA15635-4, FA15635-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15635
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Nitrogen, Nitrate	GP24124/GN61781	FA15635-5	mg/l	0.050 U	2.5	2.4	0.0	20%
Nitrogen, Nitrite	GP24124/GN61781	FA15635-5	mg/l	0.050 U	2.5	2.7	3.8	20%
Sulfate	GP24124/GN61781	FA15635-5	mg/l	43.9	50	86.0	0.1	20%

Associated Samples:
Batch GP24124: FA15635-4, FA15635-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ERM NC, Inc.
Ballantyne One
15720 Brixham Hill Avenue, Suite 120
Charlotte, NC 28277
Attention: Ed Hollifield

Project Name: **ECI**

Project Number: **235369-104-03**

Lot Number: **PJ17075**

Date Completed: **10/29/2014**

Kelly M. Maberry
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

* P J 1 7 0 7 5 *

Case Narrative
ERM NC, Inc.
Lot Number: PJ17075

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
ERM NC, Inc.
Lot Number: PJ17075

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	DW-1D	Aqueous	10/15/2014 1325	10/17/2014
002	DW-1	Aqueous	10/15/2014 1240	10/17/2014
003	MW-10	Aqueous	10/15/2014 1125	10/17/2014
004	MW-11	Aqueous	10/15/2014 1450	10/17/2014
005	MW-13	Aqueous	10/15/2014 1400	10/17/2014
006	Trip Blank	Aqueous	10/15/2014	10/17/2014

(6 samples)

Executive Summary

ERM NC, Inc.

Lot Number: PJ17075

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	DW-1D	Aqueous	cis-1,2-Dichloroethene	8260B	2.3		ug/L	6
001	DW-1D	Aqueous	Trichloroethene	8260B	49		ug/L	7
002	DW-1	Aqueous	cis-1,2-Dichloroethene	8260B	1.1		ug/L	9
002	DW-1	Aqueous	Trichloroethene	8260B	83		ug/L	10
004	MW-11	Aqueous	Chloroform	8260B	0.38	J	ug/L	15
004	MW-11	Aqueous	1,1-Dichloroethene	8260B	11		ug/L	15
004	MW-11	Aqueous	cis-1,2-Dichloroethene	8260B	0.95	J	ug/L	15
004	MW-11	Aqueous	Tetrachloroethene	8260B	6.5		ug/L	16
004	MW-11	Aqueous	Trichloroethene	8260B	3700		ug/L	16

(9 detections)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-001**
Description: **DW-1D**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1325**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	10/18/2014 0310	JJG		58644

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	40-170

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-001**
Description: **DW-1D**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1325**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1343	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.027	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.21	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.070	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.080	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.060	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.12	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**2.3**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.12	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.13	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.85	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.030	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.070	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-001**
Description: **DW-1D**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1325**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1343	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.070	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**49**		**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.33	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.50	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		122	70-130
Toluene-d8		116	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-002**
Description: **DW-1**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1240**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	10/18/2014 0332	JJG		58644

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	40-170

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-002**
Description: **DW-1**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1240**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1404	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.027	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.21	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.070	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.080	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.060	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.12	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**1.1**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.12	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.13	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.85	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.030	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.070	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-002**
Description: **DW-1**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1240**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1404	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.070	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**83**		**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.33	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.50	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		121	70-130
Toluene-d8		117	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-003**
Description: **MW-10**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1125**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	10/18/2014 0354	JJG		58644

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	40-170

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-003**
Description: **MW-10**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1125**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	10/24/2014 1820	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		1000	340	ug/L	1
Benzene	71-43-2	8260B	ND		50	6.6	ug/L	1
Bromobenzene	108-86-1	8260B	ND		50	1.4	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		50	8.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		50	17	ug/L	1
Bromoform	75-25-2	8260B	ND		50	33	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		100	40	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		500	100	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		50	11	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		50	3.5	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		50	4.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		50	6.9	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		50	17	ug/L	1
Chloroethane	75-00-3	8260B	ND		100	24	ug/L	1
Chloroform	67-66-3	8260B	ND		50	17	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		50	18	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		50	3.0	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		50	6.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		50	17	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		50	15	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		50	17	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		50	17	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		50	17	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		100	10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		50	6.4	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	7.4	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		50	7.9	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		50	6.1	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		50	10	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		50	9.5	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		50	6.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		50	6.5	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		100	43	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		50	4.6	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		50	5.3	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	20	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	1700	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		50	17	ug/L	1
2-Hexanone	591-78-6	8260B	ND		500	14	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		50	1.5	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		50	3.5	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	20	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		500	16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		50	17	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-003**
Description: **MW-10**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1125**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	10/24/2014 1820	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8260B	ND		50	20	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		50	3.5	ug/L	1
Styrene	100-42-5	8260B	ND		50	6.1	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		50	10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		50	8.2	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		50	6.6	ug/L	1
Toluene	108-88-3	8260B	ND		50	17	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		50	17	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		50	26	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		50	3.7	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		50	11	ug/L	1
Trichloroethene	79-01-6	8260B	ND		50	9.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		50	15	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		50	17	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		50	17	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		50	17	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		250	65	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		50	2.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		50	17	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		50	25	ug/L	1
o - Xylenes	95-47-6	8260B	ND		50	25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		115	70-130
Bromofluorobenzene		122	70-130
Toluene-d8		118	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-004**
Description: **MW-11**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1450**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	10/18/2014 0415	JJG		58644

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	40-170

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-004**
Description: **MW-11**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1450**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1426	EH1		59097
2	5030B	8260B	50	10/27/2014 2340	PMM2		59301

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.027	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.21	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.070	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.080	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	**67-66-3**	**8260B**	**0.38**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.060	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.12	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**11**		**1.0**	**0.16**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.95**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.12	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.13	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.85	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.030	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.070	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-004**
Description: **MW-11**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1450**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1426	EH1		59097
2	5030B	8260B	50	10/27/2014 2340	PMM2		59301

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.070	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**6.5**		**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**3700**		**50**	**9.0**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.33	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.50	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130		99	70-130
Bromofluorobenzene		121	70-130		98	70-130
Toluene-d8		118	70-130		100	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-005**
Description: **MW-13**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1400**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	10/18/2014 0437	JJG		58644

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	40-170

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-005**
Description: **MW-13**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1400**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1447	EH1		59097
2	5030B	8260B	1	10/28/2014 0003	PMM2		59301

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.027	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.21	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.070	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.080	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.060	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.12	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.12	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.13	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.85	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.030	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.070	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-005**
Description: **MW-13**
Matrix: **Aqueous**
Date Sampled: **10/15/2014 1400**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1447	EH1		59097
2	5030B	8260B	1	10/28/2014 0003	PMM2		59301

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.070	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.33	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.50	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	70-130		101	70-130
Bromofluorobenzene		121	70-130		96	70-130
Toluene-d8		118	70-130		101	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-006**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **10/15/2014**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1137	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.027	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.21	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.070	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.080	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.060	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.12	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.12	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.13	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.85	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.030	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.070	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ERM NC, Inc.**
Laboratory ID: **PJ17075-006**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **10/15/2014**
Date Received: **10/17/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/24/2014 1137	EH1		59097

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.070	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.33	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.50	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		124	70-130
Toluene-d8		116	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 41098

Client	ERM NC, Inc
Address	15220 Brixham Hill Ave Ste 120
City	Charlotte
State	NC
Zip Code	28277
Project Name	ECI - Whittsett
Report to Contact	Ed.Hollifield@erm.com
Sampler's Signature	x
Printed Name	Thomas Fisher
Telephone No. / E-mail	704-541-8345
Quote No.	17385
Analysis (Attach list if more space is needed)	
Page	1 of 1
Project No.	235369-104-03
P.O. No.	

PJ17075

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	Liquids	NaOH	HNO3	NO	NaOH	5035 Kit		VOC 8260	1,4-Dioxane (Sim)								Remarks / Cooler I.D.
DW-1D	10/15/14	1325	G	X						X				X	X								
DW-1	10/15/14	1240	G	X						X				X	X								
MW-10	10/15/14	1125	G	X						X				X	X								
MW-11	10/15/14	1450	G	X						X				X	X								
MW-13	10/15/14	1400	G	X						X				X	X								
Trip Blank			G	X						X				X									

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☒ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

1. Relinquished by	Date 10/16/14	Time 1600	1. Received by	Date 10.16.14	Time 1600
2. Relinquished by	Date 10.17.14	Time 0800	2. Received by	Date 10.17.14	Time 0800
3. Relinquished by	Date 10.17.14	Time 1600	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by	Date 10/17/14	Time 1600

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack Receipt Temp. 4-4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 15

Replaces Date: 03/07/14
Effective Date: 07/15/14

Sample Receipt Checklist (SRC)

Client: ERM Cooler Inspected by/date: CMT / 10/17/14 Lot #: PJ17075

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
NA / 4.0/4.4 °C ___ / ___ / ___ °C ___ / ___ / ___ °C ___ / ___ / ___ °C
Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: +0.4°C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) using SR #_____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR#_____

Sample labels applied by: CMT Verified by: _____ Date: 10/17/14

Comments:

Report of Analysis

ERM NC, Inc.
Ballantyne One
15720 Brixham Hill Avenue, Suite 120
Charlotte, NC 28277
Attention: Amanda Freeman

Project Name: ECI - Whitsett

Lot Number: QA08086

Date Completed: 01/13/2015

Kelly M. Nance
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

QA08086

Case Narrative

ERM NC, Inc.

Lot Number: QA08086

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

ERM NC, Inc.

Lot Number: QA08086

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-13	Aqueous	01/08/2015 1145	01/08/2015
002	DW-1D	Aqueous	01/08/2015 1240	01/08/2015
003	DW-1	Aqueous	01/08/2015 1320	01/08/2015
004	Trip Blank	Aqueous	01/08/2015	01/08/2015

(4 samples)

Executive Summary

ERM NC, Inc.

Lot Number: QA08086

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	DW-1D	Aqueous	Trichloroethene	8260B	44		ug/L	8
003	DW-1	Aqueous	Trichloroethene	8260B	81		ug/L	10

(2 detections)

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-001
Description: MW-13
Matrix: Aqueous
Date Sampled: 01/08/2015 1145
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/09/2015 2323	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-001
Description: MW-13
Matrix: Aqueous
Date Sampled: 01/08/2015 1145
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/09/2015 2323	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		110	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-002
Description: DW-1D
Matrix: Aqueous
Date Sampled: 01/08/2015 1240
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/09/2015 2347	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
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ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-002
Description: DW-1D
Matrix: Aqueous
Date Sampled: 01/08/2015 1240
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/09/2015 2347	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	44		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		113	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-003
Description: DW-1
Matrix: Aqueous
Date Sampled: 01/08/2015 1320
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/10/2015 0010	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-003
Description: DW-1
Matrix: Aqueous
Date Sampled: 01/08/2015 1320
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/10/2015 0010	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	81		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		110	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
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ND = Not detected at or above the PQL
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
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Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-004
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 01/08/2015
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/09/2015 2300	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
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ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QA08086-004
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 01/08/2015
Date Received: 01/08/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/09/2015 2300	PMM2		65033

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		111	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ65033-001
Batch: 65033
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	20	ug/L	01/09/2015 2103
Benzene	ND		1	5.0	ug/L	01/09/2015 2103
Bromodichloromethane	ND		1	5.0	ug/L	01/09/2015 2103
Bromoform	ND		1	5.0	ug/L	01/09/2015 2103
Bromomethane (Methyl bromide)	ND		1	5.0	ug/L	01/09/2015 2103
2-Butanone (MEK)	ND		1	10	ug/L	01/09/2015 2103
Carbon disulfide	ND		1	5.0	ug/L	01/09/2015 2103
Carbon tetrachloride	ND		1	5.0	ug/L	01/09/2015 2103
Chlorobenzene	ND		1	5.0	ug/L	01/09/2015 2103
Chloroethane	ND		1	5.0	ug/L	01/09/2015 2103
Chloroform	ND		1	5.0	ug/L	01/09/2015 2103
Chloromethane (Methyl chloride)	ND		1	5.0	ug/L	01/09/2015 2103
Cyclohexane	ND		1	5.0	ug/L	01/09/2015 2103
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	ug/L	01/09/2015 2103
Dibromochloromethane	ND		1	5.0	ug/L	01/09/2015 2103
1,2-Dibromoethane (EDB)	ND		1	5.0	ug/L	01/09/2015 2103
1,4-Dichlorobenzene	ND		1	5.0	ug/L	01/09/2015 2103
1,3-Dichlorobenzene	ND		1	5.0	ug/L	01/09/2015 2103
1,2-Dichlorobenzene	ND		1	5.0	ug/L	01/09/2015 2103
Dichlorodifluoromethane	ND		1	5.0	ug/L	01/09/2015 2103
1,2-Dichloroethane	ND		1	5.0	ug/L	01/09/2015 2103
1,1-Dichloroethane	ND		1	5.0	ug/L	01/09/2015 2103
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	01/09/2015 2103
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	01/09/2015 2103
1,1-Dichloroethene	ND		1	5.0	ug/L	01/09/2015 2103
1,2-Dichloropropane	ND		1	5.0	ug/L	01/09/2015 2103
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	01/09/2015 2103
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	01/09/2015 2103
Ethylbenzene	ND		1	5.0	ug/L	01/09/2015 2103
2-Hexanone	ND		1	10	ug/L	01/09/2015 2103
Isopropylbenzene	ND		1	5.0	ug/L	01/09/2015 2103
Methyl acetate	ND		1	5.0	ug/L	01/09/2015 2103
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	ug/L	01/09/2015 2103
4-Methyl-2-pentanone	ND		1	10	ug/L	01/09/2015 2103
Methylcyclohexane	ND		1	5.0	ug/L	01/09/2015 2103
Methylene chloride	ND		1	5.0	ug/L	01/09/2015 2103
Styrene	ND		1	5.0	ug/L	01/09/2015 2103
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	01/09/2015 2103
Tetrachloroethene	ND		1	5.0	ug/L	01/09/2015 2103
Toluene	ND		1	5.0	ug/L	01/09/2015 2103
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	ug/L	01/09/2015 2103
1,2,4-Trichlorobenzene	ND		1	5.0	ug/L	01/09/2015 2103
1,1,2-Trichloroethane	ND		1	5.0	ug/L	01/09/2015 2103
1,1,1-Trichloroethane	ND		1	5.0	ug/L	01/09/2015 2103

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ65033-001
Batch: 65033
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	5.0	ug/L	01/09/2015 2103
Trichlorofluoromethane	ND		1	5.0	ug/L	01/09/2015 2103
Vinyl chloride	ND		1	2.0	ug/L	01/09/2015 2103
Xylenes (total)	ND		1	5.0	ug/L	01/09/2015 2103

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		112	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		113	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ65033-002
Batch: 65033
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	104	60-140	01/09/2015 1933
Benzene	50	52		1	104	70-130	01/09/2015 1933
Bromodichloromethane	50	53		1	106	70-130	01/09/2015 1933
Bromoform	50	53		1	105	70-130	01/09/2015 1933
Bromomethane (Methyl bromide)	50	54		1	108	60-140	01/09/2015 1933
2-Butanone (MEK)	100	100		1	104	60-140	01/09/2015 1933
Carbon disulfide	50	51		1	102	60-140	01/09/2015 1933
Carbon tetrachloride	50	54		1	109	70-130	01/09/2015 1933
Chlorobenzene	50	53		1	106	70-130	01/09/2015 1933
Chloroethane	50	52		1	104	42-163	01/09/2015 1933
Chloroform	50	50		1	101	70-130	01/09/2015 1933
Chloromethane (Methyl chloride)	50	53		1	106	60-140	01/09/2015 1933
Cyclohexane	50	48		1	97	70-130	01/09/2015 1933
1,2-Dibromo-3-chloropropane (DBCP)	50	50		1	100	70-130	01/09/2015 1933
Dibromochloromethane	50	55		1	109	70-130	01/09/2015 1933
1,2-Dibromoethane (EDB)	50	52		1	105	70-130	01/09/2015 1933
1,4-Dichlorobenzene	50	50		1	99	70-130	01/09/2015 1933
1,3-Dichlorobenzene	50	52		1	104	70-130	01/09/2015 1933
1,2-Dichlorobenzene	50	51		1	102	70-130	01/09/2015 1933
Dichlorodifluoromethane	50	58		1	116	60-140	01/09/2015 1933
1,2-Dichloroethane	50	51		1	103	70-130	01/09/2015 1933
1,1-Dichloroethane	50	50		1	101	70-130	01/09/2015 1933
trans-1,2-Dichloroethene	50	51		1	101	70-130	01/09/2015 1933
cis-1,2-Dichloroethene	50	50		1	100	70-130	01/09/2015 1933
1,1-Dichloroethene	50	52		1	105	70-130	01/09/2015 1933
1,2-Dichloropropane	50	52		1	105	70-130	01/09/2015 1933
trans-1,3-Dichloropropene	50	53		1	106	70-130	01/09/2015 1933
cis-1,3-Dichloropropene	50	54		1	109	70-130	01/09/2015 1933
Ethylbenzene	50	53		1	106	70-130	01/09/2015 1933
2-Hexanone	100	100		1	100	60-140	01/09/2015 1933
Isopropylbenzene	50	53		1	107	70-130	01/09/2015 1933
Methyl acetate	50	50		1	101	60-140	01/09/2015 1933
Methyl tertiary butyl ether (MTBE)	50	51		1	102	70-130	01/09/2015 1933
4-Methyl-2-pentanone	100	100		1	101	60-140	01/09/2015 1933
Methylcyclohexane	50	52		1	105	70-130	01/09/2015 1933
Methylene chloride	50	49		1	97	70-130	01/09/2015 1933
Styrene	50	54		1	108	70-130	01/09/2015 1933
1,1,2,2-Tetrachloroethane	50	51		1	102	70-130	01/09/2015 1933
Tetrachloroethene	50	54		1	108	70-130	01/09/2015 1933
Toluene	50	51		1	103	70-130	01/09/2015 1933
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	57		1	114	70-130	01/09/2015 1933
1,2,4-Trichlorobenzene	50	53		1	107	70-130	01/09/2015 1933
1,1,2-Trichloroethane	50	51		1	102	70-130	01/09/2015 1933
1,1,1-Trichloroethane	50	51		1	102	70-130	01/09/2015 1933

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
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N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ65033-002
Batch: 65033
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	52		1	104	70-130	01/09/2015 1933
Trichlorofluoromethane	50	54		1	109	70-130	01/09/2015 1933
Vinyl chloride	50	53		1	107	70-130	01/09/2015 1933
Xylenes (total)	100	110		1	106	70-130	01/09/2015 1933

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		114	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		114	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

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www.shealylab.com

Number 42875

Client: ERM NC, Inc	Report to Contact: Amanda.Freeman@erm.com	Telephone No. / E-mail: 704-541-8345	Quote No.
Address: 15720 Brixham Hill Ave Ste 120	Sampler's Signature: x	Analysis (Attach list if more space is needed)	Page 1 of 1
City: Charlotte; State: NC; Zip Code: 28277	Printed Name: Thomas Fisher		QA08086
Project Name: ECF-Whitsett			
Project No.	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab / Composite	Matrix: Aqueous	Solid	Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260	Remarks / Cooler I.D.
MW-13	1/7/15	1145	G	x						x			x	
DW-1D	1/7/15	1240	G	x						x			x	
DW-1	1/7/15	1320	G	x						x			x	
Trip Blank	-	-	G	x						x			x	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☒ Rush (Specify) 5 day

Sample Disposal ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	1/8/15	820	1. Received by	1/8/15	820
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by	1/8/15	1700	4. Laboratory received by	1/8/15	1700

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 2.3 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 06-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 16

Page 1 of 1
Replaces Date: 07/15/14
Effective Date: 11/07/14

Sample Receipt Checklist (SRC)

Client: ERM Cooler Inspected by/date: CMT / 1/8/15 Lot #: QA080816

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
11.4/1.3 °C / / °C / / °C / / °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: #4 IR Gun Correction Factor: -0.1°C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ _____ Date: _____
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____

Sample labels applied by: MGM Verified by: CMT Date: 1/8/15

Comments:

Report of Analysis

ERM NC, Inc.
Ballantyne One
15720 Brixham Hill Avenue, Suite 120
Charlotte, NC 28277
Attention: Ed Hollifield

Project Name: ECI Whitsett

Lot Number: QH05007

Date Completed: 08/06/2015

Kelly M. Nance
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative

ERM NC, Inc.

Lot Number: QH05007

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

ERM NC, Inc.

Lot Number: QH05007

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-14D	Aqueous	08/04/2015 1445	08/05/2015
002	MW-14	Aqueous	08/04/2015 1330	08/05/2015

(2 samples)

Executive Summary

ERM NC, Inc.

Lot Number: QH05007

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW-14	Aqueous	Acetone	8260B	2.4	J	ug/L	7

(1 detection)

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QH05007-001
Description: MW-14D
Matrix: Aqueous
Date Sampled: 08/04/2015 1445
Date Received: 08/05/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/06/2015 0016	JJG		81617
2	5030B	8260B	1	08/06/2015 1052	ALL		81674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.21	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.070	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.080	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.070	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QH05007-001
Description: MW-14D
Matrix: Aqueous
Date Sampled: 08/04/2015 1445
Date Received: 08/05/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/06/2015 0016	JJG		81617
2	5030B	8260B	1	08/06/2015 1052	ALL		81674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.070	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.50	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130		89	70-130
Bromofluorobenzene		89	70-130		101	70-130
Toluene-d8		99	70-130		90	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
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ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QH05007-002
Description: MW-14
Matrix: Aqueous
Date Sampled: 08/04/2015 1330
Date Received: 08/05/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/06/2015 0040	JJG		81617
2	5030B	8260B	1	08/06/2015 1115	ALL		81674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	2.4	J	20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.21	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.070	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.080	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.070	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1

PQL = Practical quantitation limit
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H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ERM NC, Inc.
Laboratory ID: QH05007-002
Description: MW-14
Matrix: Aqueous
Date Sampled: 08/04/2015 1330
Date Received: 08/05/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/06/2015 0040	JJG		81617
2	5030B	8260B	1	08/06/2015 1115	ALL		81674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.070	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.50	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130		85	70-130
Bromofluorobenzene		91	70-130		97	70-130
Toluene-d8		99	70-130		87	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ81617-001
Batch: 81617
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	08/05/2015 2136
Benzene	ND		1	1.0	0.21	ug/L	08/05/2015 2136
Bromobenzene	ND		1	1.0	0.14	ug/L	08/05/2015 2136
Bromochloromethane	ND		1	1.0	0.45	ug/L	08/05/2015 2136
Bromodichloromethane	ND		1	1.0	0.23	ug/L	08/05/2015 2136
Bromoform	ND		1	1.0	0.35	ug/L	08/05/2015 2136
Bromomethane (Methyl bromide)	ND		1	2.0	0.19	ug/L	08/05/2015 2136
2-Butanone (MEK)	ND		1	10	1.8	ug/L	08/05/2015 2136
tert-Butylbenzene	ND		1	1.0	0.080	ug/L	08/05/2015 2136
n-Butylbenzene	ND		1	1.0	0.21	ug/L	08/05/2015 2136
sec-Butylbenzene	ND		1	1.0	0.070	ug/L	08/05/2015 2136
Carbon tetrachloride	ND		1	1.0	0.31	ug/L	08/05/2015 2136
Chlorobenzene	ND		1	1.0	0.20	ug/L	08/05/2015 2136
Chloroethane	ND		1	2.0	0.28	ug/L	08/05/2015 2136
Chloroform	ND		1	1.0	0.21	ug/L	08/05/2015 2136
Chloromethane (Methyl chloride)	ND		1	1.0	0.19	ug/L	08/05/2015 2136
2-Chlorotoluene	ND		1	1.0	0.18	ug/L	08/05/2015 2136
4-Chlorotoluene	ND		1	1.0	0.18	ug/L	08/05/2015 2136
Dibromochloromethane	ND		1	1.0	0.23	ug/L	08/05/2015 2136
1,2-Dibromoethane (EDB)	ND		1	1.0	0.17	ug/L	08/05/2015 2136
1,2-Dichlorobenzene	ND		1	1.0	0.46	ug/L	08/05/2015 2136
1,3-Dichlorobenzene	ND		1	1.0	0.19	ug/L	08/05/2015 2136
1,4-Dichlorobenzene	ND		1	1.0	0.19	ug/L	08/05/2015 2136
Dichlorodifluoromethane	ND		1	2.0	0.85	ug/L	08/05/2015 2136
1,1-Dichloroethane	ND		1	1.0	0.19	ug/L	08/05/2015 2136
1,2-Dichloroethane	ND		1	1.0	0.23	ug/L	08/05/2015 2136
trans-1,2-Dichloroethene	ND		1	1.0	0.33	ug/L	08/05/2015 2136
1,1-Dichloroethene	ND		1	1.0	0.31	ug/L	08/05/2015 2136
cis-1,2-Dichloroethene	ND		1	1.0	0.20	ug/L	08/05/2015 2136
2,2-Dichloropropane	ND		1	1.0	0.17	ug/L	08/05/2015 2136
1,3-Dichloropropane	ND		1	1.0	0.15	ug/L	08/05/2015 2136
1,2-Dichloropropane	ND		1	1.0	0.29	ug/L	08/05/2015 2136
cis-1,3-Dichloropropene	ND		1	1.0	0.30	ug/L	08/05/2015 2136
1,1-Dichloropropene	ND		1	2.0	0.28	ug/L	08/05/2015 2136
trans-1,3-Dichloropropene	ND		1	1.0	0.22	ug/L	08/05/2015 2136
Diisopropyl ether (IPE)	ND		1	1.0	0.26	ug/L	08/05/2015 2136
Ethylbenzene	ND		1	1.0	0.21	ug/L	08/05/2015 2136
2-Hexanone	ND		1	10	0.26	ug/L	08/05/2015 2136
Isopropylbenzene	ND		1	1.0	0.14	ug/L	08/05/2015 2136
p-Isopropyltoluene	ND		1	1.0	0.070	ug/L	08/05/2015 2136
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.23	ug/L	08/05/2015 2136
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	08/05/2015 2136
Methylene chloride	ND		1	1.0	0.42	ug/L	08/05/2015 2136
Naphthalene	ND		1	1.0	0.14	ug/L	08/05/2015 2136

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ81617-001
Batch: 81617
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
n-Propylbenzene	ND		1	1.0	0.070	ug/L	08/05/2015 2136
Styrene	ND		1	1.0	0.13	ug/L	08/05/2015 2136
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.19	ug/L	08/05/2015 2136
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.13	ug/L	08/05/2015 2136
Tetrachloroethene	ND		1	1.0	0.22	ug/L	08/05/2015 2136
Toluene	ND		1	1.0	0.24	ug/L	08/05/2015 2136
1,2,4-Trichlorobenzene	ND		1	1.0	0.13	ug/L	08/05/2015 2136
1,2,3-Trichlorobenzene	ND		1	1.0	0.18	ug/L	08/05/2015 2136
1,1,2-Trichloroethane	ND		1	1.0	0.22	ug/L	08/05/2015 2136
1,1,1-Trichloroethane	ND		1	1.0	0.24	ug/L	08/05/2015 2136
Trichloroethene	ND		1	1.0	0.16	ug/L	08/05/2015 2136
Trichlorofluoromethane	ND		1	1.0	0.74	ug/L	08/05/2015 2136
1,2,3-Trichloropropane	ND		1	1.0	0.35	ug/L	08/05/2015 2136
1,2,4-Trimethylbenzene	ND		1	1.0	0.13	ug/L	08/05/2015 2136
1,3,5-Trimethylbenzene	ND		1	1.0	0.11	ug/L	08/05/2015 2136
Vinyl acetate	ND		1	5.0	1.0	ug/L	08/05/2015 2136
Vinyl chloride	ND		1	1.0	0.50	ug/L	08/05/2015 2136
o - Xylenes	ND		1	1.0	0.50	ug/L	08/05/2015 2136
m+p - Xylenes	ND		1	1.0	0.50	ug/L	08/05/2015 2136
Xylenes (total)	ND		1	1.0	0.33	ug/L	08/05/2015 2136

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ81617-002
Batch: 81617
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	89		1	89	60-140	08/05/2015 2049
Benzene	50	50		1	101	70-130	08/05/2015 2049
Bromobenzene	50	52		1	104	70-130	08/05/2015 2049
Bromochloromethane	50	52		1	103	70-130	08/05/2015 2049
Bromodichloromethane	50	51		1	101	70-130	08/05/2015 2049
Bromoform	50	47		1	94	70-130	08/05/2015 2049
Bromomethane (Methyl bromide)	50	60		1	121	60-140	08/05/2015 2049
2-Butanone (MEK)	100	83		1	83	60-140	08/05/2015 2049
tert-Butylbenzene	50	52		1	103	70-130	08/05/2015 2049
n-Butylbenzene	50	51		1	102	70-130	08/05/2015 2049
sec-Butylbenzene	50	51		1	101	70-130	08/05/2015 2049
Carbon tetrachloride	50	51		1	101	70-130	08/05/2015 2049
Chlorobenzene	50	50		1	101	70-130	08/05/2015 2049
Chloroethane	50	50		1	100	42-163	08/05/2015 2049
Chloroform	50	46		1	92	70-130	08/05/2015 2049
Chloromethane (Methyl chloride)	50	49		1	99	60-140	08/05/2015 2049
2-Chlorotoluene	50	49		1	98	70-130	08/05/2015 2049
4-Chlorotoluene	50	52		1	103	70-130	08/05/2015 2049
Dibromochloromethane	50	49		1	98	70-130	08/05/2015 2049
1,2-Dibromoethane (EDB)	50	50		1	100	70-130	08/05/2015 2049
1,2-Dichlorobenzene	50	51		1	102	70-130	08/05/2015 2049
1,3-Dichlorobenzene	50	51		1	103	70-130	08/05/2015 2049
1,4-Dichlorobenzene	50	50		1	100	70-130	08/05/2015 2049
Dichlorodifluoromethane	50	52		1	104	60-140	08/05/2015 2049
1,1-Dichloroethane	50	47		1	95	70-130	08/05/2015 2049
1,2-Dichloroethane	50	49		1	97	70-130	08/05/2015 2049
trans-1,2-Dichloroethene	50	51		1	102	70-130	08/05/2015 2049
1,1-Dichloroethene	50	53		1	105	70-130	08/05/2015 2049
cis-1,2-Dichloroethene	50	50		1	100	70-130	08/05/2015 2049
2,2-Dichloropropane	50	58		1	116	70-130	08/05/2015 2049
1,3-Dichloropropane	50	48		1	97	70-130	08/05/2015 2049
1,2-Dichloropropane	50	49		1	97	70-130	08/05/2015 2049
cis-1,3-Dichloropropene	50	50		1	100	70-130	08/05/2015 2049
1,1-Dichloropropene	50	49		1	97	70-130	08/05/2015 2049
trans-1,3-Dichloropropene	50	49		1	98	70-130	08/05/2015 2049
Diisopropyl ether (IPE)	50	48		1	97	70-130	08/05/2015 2049
Ethylbenzene	50	51		1	101	70-130	08/05/2015 2049
2-Hexanone	100	83		1	83	60-140	08/05/2015 2049
Isopropylbenzene	50	52		1	104	70-130	08/05/2015 2049
p-Isopropyltoluene	50	52		1	103	70-130	08/05/2015 2049
Methyl tertiary butyl ether (MTBE)	50	49		1	99	70-130	08/05/2015 2049
4-Methyl-2-pentanone	100	86		1	86	60-140	08/05/2015 2049
Methylene chloride	50	47		1	95	70-130	08/05/2015 2049
Naphthalene	50	48		1	96	70-130	08/05/2015 2049

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ81617-002
Batch: 81617
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
n-Propylbenzene	50	51		1	103	70-130	08/05/2015 2049
Styrene	50	51		1	103	70-130	08/05/2015 2049
1,1,1,2-Tetrachloroethane	50	55		1	111	70-130	08/05/2015 2049
1,1,2,2-Tetrachloroethane	50	48		1	95	60-140	08/05/2015 2049
Tetrachloroethene	50	49		1	98	70-130	08/05/2015 2049
Toluene	50	51		1	102	70-130	08/05/2015 2049
1,2,4-Trichlorobenzene	50	51		1	103	70-130	08/05/2015 2049
1,2,3-Trichlorobenzene	50	50		1	101	70-130	08/05/2015 2049
1,1,2-Trichloroethane	50	48		1	97	70-130	08/05/2015 2049
1,1,1-Trichloroethane	50	52		1	104	70-130	08/05/2015 2049
Trichloroethene	50	52		1	104	70-130	08/05/2015 2049
Trichlorofluoromethane	50	50		1	100	70-130	08/05/2015 2049
1,2,3-Trichloropropane	50	44		1	89	70-130	08/05/2015 2049
1,2,4-Trimethylbenzene	50	51		1	102	70-130	08/05/2015 2049
1,3,5-Trimethylbenzene	50	51		1	102	70-130	08/05/2015 2049
Vinyl acetate	50	51		1	101	60-140	08/05/2015 2049
Vinyl chloride	50	54		1	108	70-130	08/05/2015 2049
o - Xylenes	50	52		1	103	70-130	08/05/2015 2049
m+p - Xylenes	50	50		1	101	70-130	08/05/2015 2049
Xylenes (total)	100	100		1	102	70-130	08/05/2015 2049

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ81674-001
Batch: 81674
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Ethanol	ND		1	100	19	ug/L	08/06/2015 1016

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		87	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ81674-002
Batch: 81674
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Ethanol	5000	4900		1	98	60-140	08/06/2015 0918

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		84	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Q 17385

CHAIN OF CUSTODY RECORD

GCAL USE ONLY

QH05007

GCAL ANALYTICAL LABORATORIES, LLC
7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

Report to:
Client: FRM
Address: 15720 BRIXHAM HILLAN
CHARLOTTE 28277
Contact: ED HOLIFIELD
Phone:
E-mail: ED.HOLIFIELD@frm.com

Bill to:
Client: SAME
Address:
Contact:
Phone:
E-mail:

P.O. Number: 0294369
Project Name/Number: ECI WHITSETT
Sampled By: Tom NAUMANN

Analytical Requests & Method: VOC's (8260)

GCAL use o
Custody Se
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	NITRIC ACID	Preservative
GW	8/4/15	1445		X	MW-14D	3	3	
GW	8/4/15	1330		X	MW-14	3	3	

Air Bill No:

Turn Around Time (Business Days): ☑ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☐ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Tom NAUMANN	8/4/15	1830	FED EX	8/4/15	1830
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Fedex	8-5-15	0930	Received by: (Signature)	8-5-15	0930

Note: T=2.7°

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Page 1 of 1
Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: ERM Cooler Inspected by/date: KWP /8-5-15 Lot #: QH0S007

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ Other			
Yes ☑	No ☐		1. Were custody seals present on the cooler?
Yes ☑	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 12.7/2.7 °C ___/___ °C ___/___/___ °C ___/___/___ °C Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	17145	24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)			
Sample(s)_____were received incorrectly preserved and were adjusted accordingly in sample receiving with _____(H_2SO_4,HNO_3,HCl,NaOH) using SR #_____.			
Sample(s)_____were received with bubbles >6 mm in diameter.			
Sample(s)_____were received with TRC >0.2 mg/L (If #21 is No)			
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____ Sample(s)_____were not received at a pH of <2 and were adjusted accordingly using SR#_____			
Sample labels applied by: KWP Verified by:_____ Date: 8-5-15			

Comments:

Report of Analysis

ERM NC, Inc.
Ballantyne One
15720 Brixham Hill Avenue, Suite 120
Charlotte, NC 28277
Attention: Ed Hollifield

Project Name: ECI Whitsett

Project Number: 0294369

Lot Number: QH08006

Date Completed: 08/17/2015

Kelly M. Nance
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
ERM NC, Inc.
Lot Number: QH08006

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Per the client, project name is "ECI Whitsett".

GC/MS Volatiles
The MS/MSD associated with sample -005 had compounds recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

Samples -002, -003, -008 and -011 were analyzed for run 2 out of vials with headspace.

Sample Summary

ERM NC, Inc.

Lot Number: QH08006

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-11	Aqueous	08/07/2015 1415	08/08/2015
002	MW-15	Aqueous	08/04/2015 1600	08/08/2015
003	MW-15D	Aqueous	08/05/2015 0930	08/08/2015
004	MW-16	Aqueous	08/05/2015 1115	08/08/2015
005	DW-16	Aqueous	08/05/2015 1315	08/08/2015
006	DW-16D	Aqueous	08/05/2015 1500	08/08/2015
007	MW-17	Aqueous	08/05/2015 1600	08/08/2015
008	DW-17	Aqueous	08/05/2015 1715	08/08/2015
009	DW-17D	Aqueous	08/06/2015 0945	08/08/2015
010	OB-1A	Aqueous	08/06/2015 1715	08/08/2015
011	OB-1B	Aqueous	08/06/2015 1430	08/08/2015
012	OB-2A	Aqueous	08/06/2015 1145	08/08/2015
013	OB-2B	Aqueous	08/06/2015 1700	08/08/2015
014	DUP-01	Aqueous	08/05/2015	08/08/2015
015	TRIP BLANK	Aqueous	08/05/2015	08/08/2015

(15 samples)

Executive Summary
ERM NC, Inc.
Lot Number: QH08006

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-11	Aqueous	Trichloroethene	8260B	3100		ug/L	6
002	MW-15	Aqueous	Trichloroethene	8260B	0.80	J	ug/L	9
003	MW-15D	Aqueous	Acetone	8260B	6.9	J	ug/L	11
003	MW-15D	Aqueous	Chloroethane	8260B	1.3	J	ug/L	11
003	MW-15D	Aqueous	Chloromethane (Methyl	8260B	0.32	J	ug/L	11
003	MW-15D	Aqueous	cis-1,2-Dichloroethene	8260B	0.87	J	ug/L	11
003	MW-15D	Aqueous	Trichloroethene	8260B	11		ug/L	12
004	MW-16	Aqueous	Chloroform	8260B	13		ug/L	14
004	MW-16	Aqueous	Trichloroethene	8260B	280		ug/L	15
005	DW-16	Aqueous	Chloroform	8260B	16		ug/L	17
005	DW-16	Aqueous	Trichloroethene	8260B	280		ug/L	18
006	DW-16D	Aqueous	Acetone	8260B	15	J	ug/L	20
006	DW-16D	Aqueous	Chloroform	8260B	21		ug/L	20
006	DW-16D	Aqueous	cis-1,2-Dichloroethene	8260B	3.0		ug/L	20
006	DW-16D	Aqueous	Toluene	8260B	0.56	J	ug/L	21
006	DW-16D	Aqueous	Trichloroethene	8260B	57		ug/L	21
007	MW-17	Aqueous	Bromodichloromethane	8260B	0.83	J	ug/L	23
007	MW-17	Aqueous	Chloroform	8260B	11		ug/L	23
007	MW-17	Aqueous	cis-1,2-Dichloroethene	8260B	0.45	J	ug/L	23
007	MW-17	Aqueous	Trichloroethene	8260B	62		ug/L	24
008	DW-17	Aqueous	Acetone	8260B	2.2	J	ug/L	26
008	DW-17	Aqueous	Bromodichloromethane	8260B	0.37	J	ug/L	26
008	DW-17	Aqueous	Chloroform	8260B	27		ug/L	26
008	DW-17	Aqueous	1,1-Dichloroethene	8260B	1.4		ug/L	26
008	DW-17	Aqueous	cis-1,2-Dichloroethene	8260B	2.0		ug/L	26
008	DW-17	Aqueous	Tetrachloroethene	8260B	0.49	J	ug/L	27
008	DW-17	Aqueous	Trichloroethene	8260B	180		ug/L	27
009	DW-17D	Aqueous	Bromodichloromethane	8260B	0.32	J	ug/L	29
009	DW-17D	Aqueous	Chloroform	8260B	7.1		ug/L	29
009	DW-17D	Aqueous	cis-1,2-Dichloroethene	8260B	2.5		ug/L	29
009	DW-17D	Aqueous	Trichloroethene	8260B	57		ug/L	30
010	OB-1A	Aqueous	Trichloroethene	8260B	14000		ug/L	33
011	OB-1B	Aqueous	1,1-Dichloroethene	8260B	5.9	J	ug/L	35
011	OB-1B	Aqueous	Trichloroethene	8260B	1700		ug/L	36
012	OB-2A	Aqueous	Trichloroethene	8260B	8900		ug/L	39
013	OB-2B	Aqueous	Chloroform	8260B	7.1		ug/L	41
013	OB-2B	Aqueous	Trichloroethene	8260B	510		ug/L	42
014	DUP-01	Aqueous	Bromodichloromethane	8260B	0.94	J	ug/L	44
014	DUP-01	Aqueous	Chloroform	8260B	12		ug/L	44
014	DUP-01	Aqueous	cis-1,2-Dichloroethene	8260B	0.46	J	ug/L	44
014	DUP-01	Aqueous	Toluene	8260B	0.26	J	ug/L	45
014	DUP-01	Aqueous	Trichloroethene	8260B	66		ug/L	45

(42 detections)

Client: ERM NC, Inc.
Description: MW-11
Date Sampled: 08/07/2015 1415
Date Received: 08/08/2015

Laboratory ID: QH08006-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	08/12/2015 0312	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		400	32	ug/L	1
Benzene	71-43-2	8260B	ND		20	4.2	ug/L	1
Bromobenzene	108-86-1	8260B	ND		20	2.8	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		20	9.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		20	4.6	ug/L	1
Bromoform	75-25-2	8260B	ND		20	7.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		40	3.8	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		200	36	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		20	2.8	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		20	2.8	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		20	2.8	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		20	6.2	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		20	4.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		40	5.6	ug/L	1
Chloroform	67-66-3	8260B	ND		20	4.2	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		20	3.8	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		20	3.6	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		20	3.6	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		20	4.6	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		20	3.4	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		20	9.2	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		20	3.8	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		20	3.8	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		40	17	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		20	3.8	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	4.6	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		20	6.2	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		20	4.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		20	6.6	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		20	5.8	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		20	3.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		20	3.4	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		40	5.6	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		20	6.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		20	4.4	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		20	5.2	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		20	4.2	ug/L	1
2-Hexanone	591-78-6	8260B	ND		200	5.2	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		20	2.8	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		20	2.8	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-11
Date Sampled: 08/07/2015 1415
Date Received: 08/08/2015

Laboratory ID: QH08006-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	08/12/2015 0312	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	4.6	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		200	5.8	ug/L	1
Methylene chloride	75-09-2	8260B	ND		20	8.4	ug/L	1
Naphthalene	91-20-3	8260B	ND		20	2.8	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		20	2.4	ug/L	1
Styrene	100-42-5	8260B	ND		20	2.6	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		20	3.8	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		20	2.6	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		20	4.4	ug/L	1
Toluene	108-88-3	8260B	ND		20	4.8	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		20	3.6	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		20	2.6	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		20	4.8	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		20	4.4	ug/L	1
Trichloroethene	79-01-6	8260B	3100		20	3.2	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		20	15	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		20	7.0	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		20	2.6	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		20	2.2	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		100	20	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		20	10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		20	6.4	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		20	3.8	ug/L	1
o - Xylenes	95-47-6	8260B	ND		20	2.8	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	08/13/2015 1449	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		5000	960	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-11
Date Sampled: 08/07/2015 1415
Date Received: 08/08/2015

Laboratory ID: QH08006-001
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-15
Date Sampled: 08/04/2015 1600
Date Received: 08/08/2015

Laboratory ID: QH08006-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	08/13/2015 1158	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	2
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	2
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	2
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	2
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	2
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	2
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	2
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	2
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	2
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.20	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	2
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	2
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	2
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	2
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	2
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	2

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-15
Date Sampled: 08/04/2015 1600
Date Received: 08/08/2015

Laboratory ID: QH08006-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	08/13/2015 1158	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	2
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	2
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	2
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	2
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	2
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	2
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	2
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	2
Trichloroethene	79-01-6	8260B	0.80	J	1.0	0.16	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	2
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	2
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	2
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	2
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	2
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		87	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/13/2015 1229	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-15
Date Sampled: 08/04/2015 1600
Date Received: 08/08/2015

Laboratory ID: QH08006-002
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-15D
Date Sampled: 08/05/2015 0930
Date Received: 08/08/2015

Laboratory ID: QH08006-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	08/13/2015 1221	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	6.9	J	20	1.6	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	2
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	2
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	2
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	2
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	2
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	2
Chloroethane	75-00-3	8260B	1.3	J	2.0	0.28	ug/L	2
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	0.32	J	1.0	0.19	ug/L	2
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	2
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	0.87	J	1.0	0.20	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	2
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	2
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	2
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	2
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	2
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	2

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-15D
Date Sampled: 08/05/2015 0930
Date Received: 08/08/2015

Laboratory ID: QH08006-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	08/13/2015 1221	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	2
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	2
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	2
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	2
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	2
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	2
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	2
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	2
Trichloroethene	79-01-6	8260B	11		1.0	0.16	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	2
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	2
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	2
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	2
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	2
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		71	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		82	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/13/2015 1512	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		500	96	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-15D
Date Sampled: 08/05/2015 0930
Date Received: 08/08/2015

Laboratory ID: QH08006-003
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-16
Date Sampled: 08/05/2015 1115
Date Received: 08/08/2015

Laboratory ID: QH08006-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/12/2015 0120	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	1.1	ug/L	1
Bromobenzene	108-86-1	8260B	ND		5.0	0.70	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		5.0	2.3	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		5.0	0.70	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		5.0	0.70	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		5.0	0.70	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	1.4	ug/L	1
Chloroform	67-66-3	8260B	13		5.0	1.1	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.95	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		5.0	0.90	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		5.0	0.90	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		10	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	1.6	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	1.5	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.0	0.75	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		10	1.4	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	1.1	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	1.3	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.70	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		5.0	0.70	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-16
Date Sampled: 08/05/2015 1115
Date Received: 08/08/2015

Laboratory ID: QH08006-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/12/2015 0120	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	2.1	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.70	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		5.0	0.60	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.65	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		5.0	0.95	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.2	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		5.0	0.90	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	1.1	ug/L	1
Trichloroethene	79-01-6	8260B	280		5.0	0.80	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	3.7	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.0	1.8	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		5.0	0.65	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		5.0	0.55	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		25	5.1	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		5.0	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.6	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		5.0	0.95	ug/L	1
o - Xylenes	95-47-6	8260B	ND		5.0	0.70	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/13/2015 1536	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		500	96	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-16
Date Sampled: 08/05/2015 1115
Date Received: 08/08/2015

Laboratory ID: QH08006-004
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-16
Date Sampled: 08/05/2015 1315
Date Received: 08/08/2015

Laboratory ID: QH08006-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/12/2015 0142	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	1.1	ug/L	1
Bromobenzene	108-86-1	8260B	ND		5.0	0.70	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		5.0	2.3	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		5.0	0.70	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		5.0	0.70	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		5.0	0.70	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	1.4	ug/L	1
Chloroform	67-66-3	8260B	16		5.0	1.1	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.95	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		5.0	0.90	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		5.0	0.90	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		10	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	1.6	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	1.5	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.0	0.75	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		10	1.4	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	1.1	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	1.3	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.70	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		5.0	0.70	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-16
Date Sampled: 08/05/2015 1315
Date Received: 08/08/2015

Laboratory ID: QH08006-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/12/2015 0142	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	2.1	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.70	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		5.0	0.60	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.65	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		5.0	0.95	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.2	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		5.0	0.90	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	1.1	ug/L	1
Trichloroethene	79-01-6	8260B	280		5.0	0.80	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	3.7	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.0	1.8	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		5.0	0.65	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		5.0	0.55	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		25	5.1	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		5.0	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.6	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		5.0	0.95	ug/L	1
o - Xylenes	95-47-6	8260B	ND		5.0	0.70	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		90	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/13/2015 1559	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		500	96	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-16
Date Sampled: 08/05/2015 1315
Date Received: 08/08/2015

Laboratory ID: QH08006-005
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-16D
Date Sampled: 08/05/2015 1500
Date Received: 08/08/2015

Laboratory ID: QH08006-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2243	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	15	J	20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	21		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	3.0		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-16D
Date Sampled: 08/05/2015 1500
Date Received: 08/08/2015

Laboratory ID: QH08006-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2243	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	0.56	J	1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	57		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		92	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/13/2015 1253	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-16D
Date Sampled: 08/05/2015 1500
Date Received: 08/08/2015

Laboratory ID: QH08006-006
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-17
Date Sampled: 08/05/2015 1600
Date Received: 08/08/2015

Laboratory ID: QH08006-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2305	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	0.83	J	1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	11		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.45	J	1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-17
Date Sampled: 08/05/2015 1600
Date Received: 08/08/2015

Laboratory ID: QH08006-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2305	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	62		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		92	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/13/2015 1316	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: MW-17
Date Sampled: 08/05/2015 1600
Date Received: 08/08/2015

Laboratory ID: QH08006-007
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-17
Date Sampled: 08/05/2015 1715
Date Received: 08/08/2015

Laboratory ID: QH08006-008
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2328	JJG		82104
2	5030B	8260B	5	08/13/2015 1546	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	2.2	J	20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	0.37	J	1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	27		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	1.4		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.0		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-17
Date Sampled: 08/05/2015 1715
Date Received: 08/08/2015

Laboratory ID: QH08006-008
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2328	JJG		82104
2	5030B	8260B	5	08/13/2015 1546	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	0.49	J	1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	180		5.0	0.80	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130		78	70-130
Bromofluorobenzene		97	70-130		106	70-130
Toluene-d8		92	70-130		88	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/13/2015 1339	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-17
Date Sampled: 08/05/2015 1715
Date Received: 08/08/2015

Laboratory ID: QH08006-008
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-17D
Date Sampled: 08/06/2015 0945
Date Received: 08/08/2015

Laboratory ID: QH08006-009
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2350	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	0.32	J	1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	7.1		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.5		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-17D
Date Sampled: 08/06/2015 0945
Date Received: 08/08/2015

Laboratory ID: QH08006-009
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2350	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	57		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		89	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/13/2015 1402	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DW-17D
Date Sampled: 08/06/2015 0945
Date Received: 08/08/2015

Laboratory ID: QH08006-009
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-1A
Date Sampled: 08/06/2015 1715
Date Received: 08/08/2015

Laboratory ID: QH08006-010
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	08/12/2015 0357	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		2000	160	ug/L	1
Benzene	71-43-2	8260B	ND		100	21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		100	14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		100	45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		100	23	ug/L	1
Bromoform	75-25-2	8260B	ND		100	35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		200	19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		1000	180	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		100	14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		100	14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		100	14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		100	31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		100	20	ug/L	1
Chloroethane	75-00-3	8260B	ND		200	28	ug/L	1
Chloroform	67-66-3	8260B	ND		100	21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		100	19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		100	18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		100	18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		100	23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		100	17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		100	46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		100	19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		100	19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		200	85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		100	19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		100	31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		100	20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		100	33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		100	29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		100	15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		100	17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		200	28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		100	30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		100	22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		100	21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		1000	26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		100	14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		100	14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-1A
Date Sampled: 08/06/2015 1715
Date Received: 08/08/2015

Laboratory ID: QH08006-010
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	08/12/2015 0357	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		1000	29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		100	42	ug/L	1
Naphthalene	91-20-3	8260B	ND		100	14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		100	12	ug/L	1
Styrene	100-42-5	8260B	ND		100	13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		100	19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		100	13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		100	22	ug/L	1
Toluene	108-88-3	8260B	ND		100	24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		100	18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		100	13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		100	24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		100	22	ug/L	1
Trichloroethene	79-01-6	8260B	14000		100	16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		100	74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		100	35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		100	13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		100	11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		500	100	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		100	50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		100	32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		100	19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		100	14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	08/13/2015 1622	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		20000	3900	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-1A
Date Sampled: 08/06/2015 1715
Date Received: 08/08/2015

Laboratory ID: QH08006-010
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-1B
Date Sampled: 08/06/2015 1430
Date Received: 08/08/2015

Laboratory ID: QH08006-011
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	08/12/2015 0227	JJG		82104
2	5030B	8260B	20	08/13/2015 1328	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		200	16	ug/L	1
Benzene	71-43-2	8260B	ND		10	2.1	ug/L	1
Bromobenzene	108-86-1	8260B	ND		10	1.4	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		10	4.5	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		10	2.3	ug/L	1
Bromoform	75-25-2	8260B	ND		10	3.5	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		20	1.9	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		100	18	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		10	1.4	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		10	1.4	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		10	1.4	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		10	3.1	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		10	2.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		20	2.8	ug/L	1
Chloroform	67-66-3	8260B	ND		10	2.1	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	1.9	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		10	1.8	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		10	1.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	2.3	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		10	1.7	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		10	4.6	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		10	1.9	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		10	1.9	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		20	8.5	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		10	1.9	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		10	2.3	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	5.9	J	10	3.1	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		10	2.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		10	3.3	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		10	2.9	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		10	1.5	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		10	1.7	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		20	2.8	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		10	3.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		10	2.2	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	2.6	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		10	2.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		100	2.6	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		10	1.4	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-1B
Date Sampled: 08/06/2015 1430
Date Received: 08/08/2015

Laboratory ID: QH08006-011
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	08/12/2015 0227	JJG		82104
2	5030B	8260B	20	08/13/2015 1328	SES		82326

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
p-Isopropyltoluene	99-87-6	8260B	ND		10	1.4	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		10	2.3	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		100	2.9	ug/L	1
Methylene chloride	75-09-2	8260B	ND		10	4.2	ug/L	1
Naphthalene	91-20-3	8260B	ND		10	1.4	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		10	1.2	ug/L	1
Styrene	100-42-5	8260B	ND		10	1.3	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		10	1.9	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		10	1.3	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		10	2.2	ug/L	1
Toluene	108-88-3	8260B	ND		10	2.4	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		10	1.8	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		10	1.3	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		10	2.4	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		10	2.2	ug/L	1
Trichloroethene	79-01-6	8260B	1700		20	3.2	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		10	7.4	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		10	3.5	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		10	1.3	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		10	1.1	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		50	10	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		10	3.2	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		10	1.9	ug/L	1
o - Xylenes	95-47-6	8260B	ND		10	1.4	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130		73	70-130
Bromofluorobenzene		96	70-130		103	70-130
Toluene-d8		93	70-130		88	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	08/13/2015 1645	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		2000	390	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-1B
Date Sampled: 08/06/2015 1430
Date Received: 08/08/2015

Laboratory ID: QH08006-011
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		112	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-2A
Date Sampled: 08/06/2015 1145
Date Received: 08/08/2015

Laboratory ID: QH08006-012
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	08/12/2015 0335	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		1000	81	ug/L	1
Benzene	71-43-2	8260B	ND		50	11	ug/L	1
Bromobenzene	108-86-1	8260B	ND		50	7.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		50	23	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		50	12	ug/L	1
Bromoform	75-25-2	8260B	ND		50	18	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		100	9.5	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		500	91	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		50	7.0	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		50	7.0	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		50	7.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		50	16	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		50	10	ug/L	1
Chloroethane	75-00-3	8260B	ND		100	14	ug/L	1
Chloroform	67-66-3	8260B	ND		50	11	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		50	9.5	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		50	9.0	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		50	9.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		50	12	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		50	8.5	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		50	23	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		50	9.5	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		50	9.5	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		100	43	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		50	9.5	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		50	16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		50	10	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		50	17	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		50	14	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		50	7.5	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		50	8.5	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		100	14	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		50	15	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		50	11	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	13	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		50	11	ug/L	1
2-Hexanone	591-78-6	8260B	ND		500	13	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		50	7.0	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		50	7.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-2A
Date Sampled: 08/06/2015 1145
Date Received: 08/08/2015

Laboratory ID: QH08006-012
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	08/12/2015 0335	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	12	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		500	14	ug/L	1
Methylene chloride	75-09-2	8260B	ND		50	21	ug/L	1
Naphthalene	91-20-3	8260B	ND		50	7.0	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		50	6.0	ug/L	1
Styrene	100-42-5	8260B	ND		50	6.5	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		50	9.5	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		50	6.5	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		50	11	ug/L	1
Toluene	108-88-3	8260B	ND		50	12	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		50	9.0	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		50	6.5	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		50	12	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		50	11	ug/L	1
Trichloroethene	79-01-6	8260B	8900		50	8.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		50	37	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		50	18	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		50	6.5	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		50	5.5	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		250	51	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		50	25	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		50	16	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		50	9.5	ug/L	1
o - Xylenes	95-47-6	8260B	ND		50	7.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	08/13/2015 1709	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		10000	1900	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-2A
Date Sampled: 08/06/2015 1145
Date Received: 08/08/2015

Laboratory ID: QH08006-012
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		123	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-2B
Date Sampled: 08/06/2015 1700
Date Received: 08/08/2015

Laboratory ID: QH08006-013
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/12/2015 0205	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	1.1	ug/L	1
Bromobenzene	108-86-1	8260B	ND		5.0	0.70	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		5.0	2.3	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		5.0	0.70	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		5.0	0.70	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		5.0	0.70	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	1.4	ug/L	1
Chloroform	67-66-3	8260B	7.1		5.0	1.1	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.95	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		5.0	0.90	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		5.0	0.90	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		10	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	1.6	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	1.5	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.0	0.75	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		10	1.4	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	1.1	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	1.3	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.70	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		5.0	0.70	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-2B
Date Sampled: 08/06/2015 1700
Date Received: 08/08/2015

Laboratory ID: QH08006-013
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/12/2015 0205	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	2.1	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.70	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		5.0	0.60	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.65	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		5.0	0.95	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.2	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		5.0	0.90	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	1.1	ug/L	1
Trichloroethene	79-01-6	8260B	510		5.0	0.80	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	3.7	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.0	1.8	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		5.0	0.65	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		5.0	0.55	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		25	5.1	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		5.0	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.6	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		5.0	0.95	ug/L	1
o - Xylenes	95-47-6	8260B	ND		5.0	0.70	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		91	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/13/2015 1732	JM1		82295

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		500	96	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: OB-2B
Date Sampled: 08/06/2015 1700
Date Received: 08/08/2015

Laboratory ID: QH08006-013
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DUP-01
Date Sampled: 08/05/2015
Date Received: 08/08/2015

Laboratory ID: QH08006-014
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/12/2015 0013	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	0.94	J	1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	12		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.46	J	1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DUP-01
Date Sampled: 08/05/2015
Date Received: 08/08/2015

Laboratory ID: QH08006-014
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/12/2015 0013	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	0.26	J	1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	66		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		94	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/14/2015 0020	JJG		82372

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: DUP-01
Date Sampled: 08/05/2015
Date Received: 08/08/2015

Laboratory ID: QH08006-014
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: TRIP BLANK
Date Sampled: 08/05/2015
Date Received: 08/08/2015

Laboratory ID: QH08006-015
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2221	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: TRIP BLANK
Date Sampled: 08/05/2015
Date Received: 08/08/2015

Laboratory ID: QH08006-015
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/11/2015 2221	JJG		82104

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		90	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/13/2015 2311	JJG		82372

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: TRIP BLANK
Date Sampled: 08/05/2015
Date Received: 08/08/2015

Laboratory ID: QH08006-015
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82104-001
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	08/11/2015 2007
Benzene	ND		1	1.0	0.21	ug/L	08/11/2015 2007
Bromobenzene	ND		1	1.0	0.14	ug/L	08/11/2015 2007
Bromochloromethane	ND		1	1.0	0.45	ug/L	08/11/2015 2007
Bromodichloromethane	ND		1	1.0	0.23	ug/L	08/11/2015 2007
Bromoform	ND		1	1.0	0.35	ug/L	08/11/2015 2007
Bromomethane (Methyl bromide)	ND		1	2.0	0.19	ug/L	08/11/2015 2007
2-Butanone (MEK)	ND		1	10	1.8	ug/L	08/11/2015 2007
tert-Butylbenzene	ND		1	1.0	0.14	ug/L	08/11/2015 2007
sec-Butylbenzene	ND		1	1.0	0.14	ug/L	08/11/2015 2007
n-Butylbenzene	ND		1	1.0	0.14	ug/L	08/11/2015 2007
Carbon tetrachloride	ND		1	1.0	0.31	ug/L	08/11/2015 2007
Chlorobenzene	ND		1	1.0	0.20	ug/L	08/11/2015 2007
Chloroethane	ND		1	2.0	0.28	ug/L	08/11/2015 2007
Chloroform	ND		1	1.0	0.21	ug/L	08/11/2015 2007
Chloromethane (Methyl chloride)	ND		1	1.0	0.19	ug/L	08/11/2015 2007
4-Chlorotoluene	ND		1	1.0	0.18	ug/L	08/11/2015 2007
2-Chlorotoluene	ND		1	1.0	0.18	ug/L	08/11/2015 2007
Dibromochloromethane	ND		1	1.0	0.23	ug/L	08/11/2015 2007
1,2-Dibromoethane (EDB)	ND		1	1.0	0.17	ug/L	08/11/2015 2007
1,2-Dichlorobenzene	ND		1	1.0	0.46	ug/L	08/11/2015 2007
1,3-Dichlorobenzene	ND		1	1.0	0.19	ug/L	08/11/2015 2007
1,4-Dichlorobenzene	ND		1	1.0	0.19	ug/L	08/11/2015 2007
Dichlorodifluoromethane	ND		1	2.0	0.85	ug/L	08/11/2015 2007
1,1-Dichloroethane	ND		1	1.0	0.19	ug/L	08/11/2015 2007
1,2-Dichloroethane	ND		1	1.0	0.23	ug/L	08/11/2015 2007
1,1-Dichloroethene	ND		1	1.0	0.31	ug/L	08/11/2015 2007
cis-1,2-Dichloroethene	ND		1	1.0	0.20	ug/L	08/11/2015 2007
trans-1,2-Dichloroethene	ND		1	1.0	0.33	ug/L	08/11/2015 2007
1,2-Dichloropropane	ND		1	1.0	0.29	ug/L	08/11/2015 2007
2,2-Dichloropropane	ND		1	1.0	0.17	ug/L	08/11/2015 2007
1,3-Dichloropropane	ND		1	1.0	0.15	ug/L	08/11/2015 2007
1,1-Dichloropropene	ND		1	2.0	0.28	ug/L	08/11/2015 2007
cis-1,3-Dichloropropene	ND		1	1.0	0.30	ug/L	08/11/2015 2007
trans-1,3-Dichloropropene	ND		1	1.0	0.22	ug/L	08/11/2015 2007
Diisopropyl ether (IPE)	ND		1	1.0	0.26	ug/L	08/11/2015 2007
Ethylbenzene	ND		1	1.0	0.21	ug/L	08/11/2015 2007
2-Hexanone	ND		1	10	0.26	ug/L	08/11/2015 2007
Isopropylbenzene	ND		1	1.0	0.14	ug/L	08/11/2015 2007
p-Isopropyltoluene	ND		1	1.0	0.14	ug/L	08/11/2015 2007
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.23	ug/L	08/11/2015 2007
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	08/11/2015 2007
Methylene chloride	ND		1	1.0	0.42	ug/L	08/11/2015 2007
Naphthalene	ND		1	1.0	0.14	ug/L	08/11/2015 2007

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82104-001
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
n-Propylbenzene	ND		1	1.0	0.12	ug/L	08/11/2015 2007
Styrene	ND		1	1.0	0.13	ug/L	08/11/2015 2007
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.19	ug/L	08/11/2015 2007
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.13	ug/L	08/11/2015 2007
Tetrachloroethene	ND		1	1.0	0.22	ug/L	08/11/2015 2007
Toluene	ND		1	1.0	0.24	ug/L	08/11/2015 2007
1,2,4-Trichlorobenzene	ND		1	1.0	0.13	ug/L	08/11/2015 2007
1,2,3-Trichlorobenzene	ND		1	1.0	0.18	ug/L	08/11/2015 2007
1,1,2-Trichloroethane	ND		1	1.0	0.22	ug/L	08/11/2015 2007
1,1,1-Trichloroethane	ND		1	1.0	0.24	ug/L	08/11/2015 2007
Trichloroethene	ND		1	1.0	0.16	ug/L	08/11/2015 2007
Trichlorofluoromethane	ND		1	1.0	0.74	ug/L	08/11/2015 2007
1,2,3-Trichloropropane	ND		1	1.0	0.35	ug/L	08/11/2015 2007
1,2,4-Trimethylbenzene	ND		1	1.0	0.13	ug/L	08/11/2015 2007
1,3,5-Trimethylbenzene	ND		1	1.0	0.11	ug/L	08/11/2015 2007
Vinyl acetate	ND		1	5.0	1.0	ug/L	08/11/2015 2007
Vinyl chloride	ND		1	1.0	0.50	ug/L	08/11/2015 2007
o - Xylenes	ND		1	1.0	0.14	ug/L	08/11/2015 2007
m+p - Xylenes	ND		1	1.0	0.19	ug/L	08/11/2015 2007
Xylenes (total)	ND		1	1.0	0.32	ug/L	08/11/2015 2007

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82104-002
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	83		1	83	60-140	08/11/2015 1923
Benzene	50	54		1	108	70-130	08/11/2015 1923
Bromobenzene	50	48		1	97	70-130	08/11/2015 1923
Bromochloromethane	50	59		1	117	70-130	08/11/2015 1923
Bromodichloromethane	50	54		1	108	70-130	08/11/2015 1923
Bromoform	50	47		1	94	70-130	08/11/2015 1923
Bromomethane (Methyl bromide)	50	54		1	108	60-140	08/11/2015 1923
2-Butanone (MEK)	100	110		1	107	60-140	08/11/2015 1923
tert-Butylbenzene	50	50		1	100	70-130	08/11/2015 1923
sec-Butylbenzene	50	50		1	100	70-130	08/11/2015 1923
n-Butylbenzene	50	50		1	100	70-130	08/11/2015 1923
Carbon tetrachloride	50	60		1	121	70-130	08/11/2015 1923
Chlorobenzene	50	49		1	98	70-130	08/11/2015 1923
Chloroethane	50	55		1	111	42-163	08/11/2015 1923
Chloroform	50	54		1	107	70-130	08/11/2015 1923
Chloromethane (Methyl chloride)	50	52		1	105	60-140	08/11/2015 1923
4-Chlorotoluene	50	48		1	97	70-130	08/11/2015 1923
2-Chlorotoluene	50	47		1	94	70-130	08/11/2015 1923
Dibromochloromethane	50	50		1	100	70-130	08/11/2015 1923
1,2-Dibromoethane (EDB)	50	50		1	101	70-130	08/11/2015 1923
1,2-Dichlorobenzene	50	48		1	96	70-130	08/11/2015 1923
1,3-Dichlorobenzene	50	48		1	96	70-130	08/11/2015 1923
1,4-Dichlorobenzene	50	48		1	95	70-130	08/11/2015 1923
Dichlorodifluoromethane	50	58		1	117	60-140	08/11/2015 1923
1,1-Dichloroethane	50	55		1	110	70-130	08/11/2015 1923
1,2-Dichloroethane	50	53		1	105	70-130	08/11/2015 1923
1,1-Dichloroethene	50	60		1	119	70-130	08/11/2015 1923
cis-1,2-Dichloroethene	50	55		1	111	70-130	08/11/2015 1923
trans-1,2-Dichloroethene	50	57		1	114	70-130	08/11/2015 1923
1,2-Dichloropropane	50	53		1	107	70-130	08/11/2015 1923
2,2-Dichloropropane	50	51		1	102	70-130	08/11/2015 1923
1,3-Dichloropropane	50	49		1	98	70-130	08/11/2015 1923
1,1-Dichloropropene	50	57		1	114	70-130	08/11/2015 1923
cis-1,3-Dichloropropene	50	54		1	108	70-130	08/11/2015 1923
trans-1,3-Dichloropropene	50	48		1	97	70-130	08/11/2015 1923
Diisopropyl ether (IPE)	50	57		1	114	70-130	08/11/2015 1923
Ethylbenzene	50	51		1	101	70-130	08/11/2015 1923
2-Hexanone	100	99		1	99	60-140	08/11/2015 1923
Isopropylbenzene	50	50		1	101	70-130	08/11/2015 1923
p-Isopropyltoluene	50	51		1	101	70-130	08/11/2015 1923
Methyl tertiary butyl ether (MTBE)	50	55		1	109	70-130	08/11/2015 1923
4-Methyl-2-pentanone	100	110		1	109	60-140	08/11/2015 1923
Methylene chloride	50	55		1	110	70-130	08/11/2015 1923
Naphthalene	50	50		1	99	70-130	08/11/2015 1923

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82104-002
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
n-Propylbenzene	50	49		1	97	70-130	08/11/2015 1923
Styrene	50	49		1	99	70-130	08/11/2015 1923
1,1,1,2-Tetrachloroethane	50	50		1	100	70-130	08/11/2015 1923
1,1,2,2-Tetrachloroethane	50	48		1	97	60-140	08/11/2015 1923
Tetrachloroethene	50	53		1	107	70-130	08/11/2015 1923
Toluene	50	50		1	99	70-130	08/11/2015 1923
1,2,4-Trichlorobenzene	50	51		1	102	70-130	08/11/2015 1923
1,2,3-Trichlorobenzene	50	51		1	101	70-130	08/11/2015 1923
1,1,2-Trichloroethane	50	50		1	100	70-130	08/11/2015 1923
1,1,1-Trichloroethane	50	56		1	112	70-130	08/11/2015 1923
Trichloroethene	50	57		1	113	70-130	08/11/2015 1923
Trichlorofluoromethane	50	57		1	115	70-130	08/11/2015 1923
1,2,3-Trichloropropane	50	49		1	97	70-130	08/11/2015 1923
1,2,4-Trimethylbenzene	50	49		1	98	70-130	08/11/2015 1923
1,3,5-Trimethylbenzene	50	49		1	98	70-130	08/11/2015 1923
Vinyl acetate	50	64		1	128	60-140	08/11/2015 1923
Vinyl chloride	50	55		1	111	70-130	08/11/2015 1923
o - Xylenes	50	48		1	97	70-130	08/11/2015 1923
m+p - Xylenes	50	50		1	101	70-130	08/11/2015 1923
Xylenes (total)	100	99		1	99	70-130	08/11/2015 1923

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: QH08006-005MS
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	500	450		5	90	60-140	08/12/2015 0419
Benzene	ND	250	300		5	118	72-127	08/12/2015 0419
Bromobenzene	ND	250	230		5	93	70-130	08/12/2015 0419
Bromochloromethane	ND	250	330	N	5	133	70-130	08/12/2015 0419
Bromodichloromethane	ND	250	290		5	115	71-143	08/12/2015 0419
Bromoform	ND	250	220		5	87	65-131	08/12/2015 0419
Bromomethane (Methyl bromide)	ND	250	350		5	138	36-168	08/12/2015 0419
2-Butanone (MEK)	ND	500	530		5	107	60-140	08/12/2015 0419
n-Butylbenzene	ND	250	230		5	91	70-130	08/12/2015 0419
sec-Butylbenzene	ND	250	230		5	93	70-130	08/12/2015 0419
tert-Butylbenzene	ND	250	240		5	95	70-130	08/12/2015 0419
Carbon tetrachloride	ND	250	340		5	136	37-166	08/12/2015 0419
Chlorobenzene	ND	250	250		5	99	78-129	08/12/2015 0419
Chloroethane	ND	250	350	N	5	141	60-140	08/12/2015 0419
Chloroform	16	250	320		5	122	63-123	08/12/2015 0419
Chloromethane (Methyl chloride)	ND	250	330		5	133	20-158	08/12/2015 0419
2-Chlorotoluene	ND	250	220		5	89	70-130	08/12/2015 0419
4-Chlorotoluene	ND	250	230		5	91	70-130	08/12/2015 0419
Dibromochloromethane	ND	250	250		5	99	74-134	08/12/2015 0419
1,2-Dibromoethane (EDB)	ND	250	240		5	98	70-130	08/12/2015 0419
1,2-Dichlorobenzene	ND	250	230		5	92	70-130	08/12/2015 0419
1,3-Dichlorobenzene	ND	250	230		5	91	70-130	08/12/2015 0419
1,4-Dichlorobenzene	ND	250	230		5	92	70-130	08/12/2015 0419
Dichlorodifluoromethane	ND	250	350		5	140	10-158	08/12/2015 0419
1,1-Dichloroethane	ND	250	310		5	125	69-132	08/12/2015 0419
1,2-Dichloroethane	ND	250	290		5	115	59-143	08/12/2015 0419
1,1-Dichloroethene	ND	250	340	N	5	137	50-132	08/12/2015 0419
cis-1,2-Dichloroethene	ND	250	310		5	125	70-130	08/12/2015 0419
trans-1,2-Dichloroethene	ND	250	330		5	130	67-141	08/12/2015 0419
1,2-Dichloropropane	ND	250	280		5	114	71-126	08/12/2015 0419
1,3-Dichloropropane	ND	250	240		5	97	70-130	08/12/2015 0419
2,2-Dichloropropane	ND	250	300		5	119	70-130	08/12/2015 0419
1,1-Dichloropropene	ND	250	320		5	127	70-130	08/12/2015 0419
cis-1,3-Dichloropropene	ND	250	270		5	109	69-130	08/12/2015 0419
trans-1,3-Dichloropropene	ND	250	230		5	92	73-131	08/12/2015 0419
Diisopropyl ether (IPE)	ND	250	320		5	127	70-130	08/12/2015 0419
Ethylbenzene	ND	250	250		5	101	79-132	08/12/2015 0419
2-Hexanone	ND	500	450		5	89	60-140	08/12/2015 0419
Isopropylbenzene	ND	250	260		5	103	70-130	08/12/2015 0419
p-Isopropyltoluene	ND	250	240		5	94	70-130	08/12/2015 0419
Methyl tertiary butyl ether (MTBE)	ND	250	300		5	120	60-140	08/12/2015 0419
4-Methyl-2-pentanone	ND	500	530		5	106	60-140	08/12/2015 0419
Methylene chloride	ND	250	320		5	127	69-129	08/12/2015 0419
Naphthalene	ND	250	220		5	89	62-136	08/12/2015 0419

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: QH08006-005MS
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
n-Propylbenzene	ND	250	230		5	90	70-130	08/12/2015 0419
Styrene	ND	250	250		5	99	70-130	08/12/2015 0419
1,1,1,2-Tetrachloroethane	ND	250	260		5	105	70-130	08/12/2015 0419
1,1,2,2-Tetrachloroethane	ND	250	220		5	88	60-155	08/12/2015 0419
Tetrachloroethene	ND	250	270		5	106	70-130	08/12/2015 0419
Toluene	ND	250	250		5	100	75-125	08/12/2015 0419
1,2,3-Trichlorobenzene	ND	250	220		5	88	70-130	08/12/2015 0419
1,2,4-Trichlorobenzene	ND	250	230		5	91	70-130	08/12/2015 0419
1,1,1-Trichloroethane	ND	250	330		5	132	77-132	08/12/2015 0419
1,1,2-Trichloroethane	ND	250	250		5	99	77-132	08/12/2015 0419
Trichloroethene	280	250	580		5	118	73-124	08/12/2015 0419
Trichlorofluoromethane	ND	250	350		5	138	41-173	08/12/2015 0419
1,2,3-Trichloropropane	ND	250	230		5	90	70-130	08/12/2015 0419
1,2,4-Trimethylbenzene	ND	250	230		5	93	70-130	08/12/2015 0419
1,3,5-Trimethylbenzene	ND	250	230		5	93	70-130	08/12/2015 0419
Vinyl acetate	ND	250	330		5	131	60-140	08/12/2015 0419
Vinyl chloride	ND	250	350		5	141	29-159	08/12/2015 0419
Xylenes (total)	ND	500	500		5	101	70-130	08/12/2015 0419
m+p - Xylenes	ND	250	250		5	101	70-130	08/12/2015 0419
o - Xylenes	ND	250	250		5	100	70-130	08/12/2015 0419

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QH08006-005MD
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	500	460		5	91	1.4	60-140	20	08/12/2015 0442
Benzene	ND	250	290		5	117	0.87	72-127	20	08/12/2015 0442
Bromobenzene	ND	250	240		5	94	1.7	70-130	20	08/12/2015 0442
Bromochloromethane	ND	250	330		5	130	2.0	70-130	20	08/12/2015 0442
Bromodichloromethane	ND	250	280		5	112	2.6	71-143	20	08/12/2015 0442
Bromoform	ND	250	210		5	85	2.2	65-131	20	08/12/2015 0442
Bromomethane (Methyl bromide)	ND	250	330		5	130	6.0	36-168	20	08/12/2015 0442
2-Butanone (MEK)	ND	500	530		5	107	0.17	60-140	20	08/12/2015 0442
n-Butylbenzene	ND	250	230		5	91	0.070	70-130	20	08/12/2015 0442
sec-Butylbenzene	ND	250	240		5	94	1.4	70-130	20	08/12/2015 0442
tert-Butylbenzene	ND	250	240		5	96	1.1	70-130	20	08/12/2015 0442
Carbon tetrachloride	ND	250	340		5	137	0.39	37-166	20	08/12/2015 0442
Chlorobenzene	ND	250	250		5	101	1.4	78-129	20	08/12/2015 0442
Chloroethane	ND	250	330		5	133	5.7	60-140	20	08/12/2015 0442
Chloroform	16	250	320		5	121	0.43	63-123	20	08/12/2015 0442
Chloromethane (Methyl chloride)	ND	250	320		5	127	4.4	20-158	20	08/12/2015 0442
2-Chlorotoluene	ND	250	230		5	91	1.7	70-130	20	08/12/2015 0442
4-Chlorotoluene	ND	250	230		5	93	2.6	70-130	20	08/12/2015 0442
Dibromochloromethane	ND	250	240		5	97	1.7	74-134	20	08/12/2015 0442
1,2-Dibromoethane (EDB)	ND	250	250		5	100	1.9	70-130	20	08/12/2015 0442
1,2-Dichlorobenzene	ND	250	230		5	93	0.92	70-130	20	08/12/2015 0442
1,3-Dichlorobenzene	ND	250	240		5	94	3.8	70-130	20	08/12/2015 0442
1,4-Dichlorobenzene	ND	250	230		5	91	0.34	70-130	20	08/12/2015 0442
Dichlorodifluoromethane	ND	250	340		5	137	2.4	10-158	20	08/12/2015 0442
1,1-Dichloroethane	ND	250	310		5	125	0.057	69-132	20	08/12/2015 0442
1,2-Dichloroethane	ND	250	280		5	113	1.3	59-143	20	08/12/2015 0442
1,1-Dichloroethene	ND	250	340	N	5	138	0.82	50-132	20	08/12/2015 0442
cis-1,2-Dichloroethene	ND	250	310		5	125	0.0067	70-130	20	08/12/2015 0442
trans-1,2-Dichloroethene	ND	250	330		5	130	0.031	67-141	20	08/12/2015 0442
1,2-Dichloropropane	ND	250	280		5	114	0.057	71-126	20	08/12/2015 0442
1,3-Dichloropropane	ND	250	250		5	98	1.3	70-130	20	08/12/2015 0442
2,2-Dichloropropane	ND	250	290		5	114	3.7	70-130	20	08/12/2015 0442
1,1-Dichloropropene	ND	250	320		5	127	0.10	70-130	20	08/12/2015 0442
cis-1,3-Dichloropropene	ND	250	270		5	108	0.69	69-130	20	08/12/2015 0442
trans-1,3-Dichloropropene	ND	250	230		5	93	0.80	73-131	20	08/12/2015 0442
Diisopropyl ether (IPE)	ND	250	320		5	128	0.68	70-130	20	08/12/2015 0442
Ethylbenzene	ND	250	260		5	104	2.1	79-132	20	08/12/2015 0442
2-Hexanone	ND	500	460		5	91	2.2	60-140	20	08/12/2015 0442
Isopropylbenzene	ND	250	260		5	102	0.43	70-130	20	08/12/2015 0442
p-Isopropyltoluene	ND	250	240		5	95	0.99	70-130	20	08/12/2015 0442
Methyl tertiary butyl ether (MTBE)	ND	250	300		5	120	0.062	60-140	20	08/12/2015 0442
4-Methyl-2-pentanone	ND	500	520		5	105	1.4	60-140	20	08/12/2015 0442
Methylene chloride	ND	250	310		5	125	1.3	69-129	20	08/12/2015 0442
Naphthalene	ND	250	220		5	88	2.0	62-136	20	08/12/2015 0442

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QH08006-005MD
Batch: 82104
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
n-Propylbenzene	ND	250	230		5	92	2.1	70-130	20	08/12/2015 0442
Styrene	ND	250	250		5	100	1.6	70-130	20	08/12/2015 0442
1,1,1,2-Tetrachloroethane	ND	250	260		5	105	0.042	70-130	20	08/12/2015 0442
1,1,2,2-Tetrachloroethane	ND	250	230		5	90	2.0	60-155	20	08/12/2015 0442
Tetrachloroethene	ND	250	280		5	111	4.0	70-130	20	08/12/2015 0442
Toluene	ND	250	260		5	102	2.0	75-125	20	08/12/2015 0442
1,2,3-Trichlorobenzene	ND	250	220		5	89	0.84	70-130	20	08/12/2015 0442
1,2,4-Trichlorobenzene	ND	250	220		5	90	1.1	70-130	20	08/12/2015 0442
1,1,1-Trichloroethane	ND	250	340	N	5	134	2.2	77-132	20	08/12/2015 0442
1,1,2-Trichloroethane	ND	250	250		5	99	0.40	77-132	20	08/12/2015 0442
Trichloroethene	280	250	560		5	112	2.6	73-124	20	08/12/2015 0442
Trichlorofluoromethane	ND	250	340		5	135	2.6	41-173	20	08/12/2015 0442
1,2,3-Trichloropropane	ND	250	230		5	92	1.8	70-130	20	08/12/2015 0442
1,2,4-Trimethylbenzene	ND	250	240		5	94	1.6	70-130	20	08/12/2015 0442
1,3,5-Trimethylbenzene	ND	250	240		5	94	1.1	70-130	20	08/12/2015 0442
Vinyl acetate	ND	250	320		5	129	1.3	60-140	20	08/12/2015 0442
Vinyl chloride	ND	250	340		5	134	4.7	29-159	20	08/12/2015 0442
Xylenes (total)	ND	500	510		5	102	0.99	70-130	20	08/12/2015 0442
m+p - Xylenes	ND	250	260		5	103	2.0	70-130	20	08/12/2015 0442
o - Xylenes	ND	250	250		5	100	0.014	70-130	20	08/12/2015 0442

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82295-001
Batch: 82295
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Ethanol	ND		1	100	19	ug/L	08/13/2015 0931

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82295-002
Batch: 82295
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Ethanol	5000	5100		1	101	60-140	08/13/2015 0829

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82326-001
Batch: 82326
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	08/13/2015 1038
Benzene	ND		1	1.0	0.21	ug/L	08/13/2015 1038
Bromobenzene	ND		1	1.0	0.14	ug/L	08/13/2015 1038
Bromochloromethane	ND		1	1.0	0.45	ug/L	08/13/2015 1038
Bromodichloromethane	ND		1	1.0	0.23	ug/L	08/13/2015 1038
Bromoform	ND		1	1.0	0.35	ug/L	08/13/2015 1038
Bromomethane (Methyl bromide)	ND		1	2.0	0.19	ug/L	08/13/2015 1038
2-Butanone (MEK)	ND		1	10	1.8	ug/L	08/13/2015 1038
n-Butylbenzene	ND		1	1.0	0.14	ug/L	08/13/2015 1038
tert-Butylbenzene	ND		1	1.0	0.14	ug/L	08/13/2015 1038
sec-Butylbenzene	ND		1	1.0	0.14	ug/L	08/13/2015 1038
Carbon tetrachloride	ND		1	1.0	0.31	ug/L	08/13/2015 1038
Chlorobenzene	ND		1	1.0	0.20	ug/L	08/13/2015 1038
Chloroethane	ND		1	2.0	0.28	ug/L	08/13/2015 1038
Chloroform	ND		1	1.0	0.21	ug/L	08/13/2015 1038
Chloromethane (Methyl chloride)	ND		1	1.0	0.19	ug/L	08/13/2015 1038
4-Chlorotoluene	ND		1	1.0	0.18	ug/L	08/13/2015 1038
2-Chlorotoluene	ND		1	1.0	0.18	ug/L	08/13/2015 1038
Dibromochloromethane	ND		1	1.0	0.23	ug/L	08/13/2015 1038
1,2-Dibromoethane (EDB)	ND		1	1.0	0.17	ug/L	08/13/2015 1038
1,3-Dichlorobenzene	ND		1	1.0	0.19	ug/L	08/13/2015 1038
1,4-Dichlorobenzene	ND		1	1.0	0.19	ug/L	08/13/2015 1038
1,2-Dichlorobenzene	ND		1	1.0	0.46	ug/L	08/13/2015 1038
Dichlorodifluoromethane	ND		1	2.0	0.85	ug/L	08/13/2015 1038
1,2-Dichloroethane	ND		1	1.0	0.23	ug/L	08/13/2015 1038
1,1-Dichloroethane	ND		1	1.0	0.19	ug/L	08/13/2015 1038
1,1-Dichloroethene	ND		1	1.0	0.31	ug/L	08/13/2015 1038
trans-1,2-Dichloroethene	ND		1	1.0	0.33	ug/L	08/13/2015 1038
cis-1,2-Dichloroethene	ND		1	1.0	0.20	ug/L	08/13/2015 1038
1,2-Dichloropropane	ND		1	1.0	0.29	ug/L	08/13/2015 1038
2,2-Dichloropropane	ND		1	1.0	0.17	ug/L	08/13/2015 1038
1,3-Dichloropropane	ND		1	1.0	0.15	ug/L	08/13/2015 1038
1,1-Dichloropropene	ND		1	2.0	0.28	ug/L	08/13/2015 1038
trans-1,3-Dichloropropene	ND		1	1.0	0.22	ug/L	08/13/2015 1038
cis-1,3-Dichloropropene	ND		1	1.0	0.30	ug/L	08/13/2015 1038
Diisopropyl ether (IPE)	ND		1	1.0	0.26	ug/L	08/13/2015 1038
Ethylbenzene	ND		1	1.0	0.21	ug/L	08/13/2015 1038
2-Hexanone	ND		1	10	0.26	ug/L	08/13/2015 1038
Isopropylbenzene	ND		1	1.0	0.14	ug/L	08/13/2015 1038
p-Isopropyltoluene	ND		1	1.0	0.14	ug/L	08/13/2015 1038
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.23	ug/L	08/13/2015 1038
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	08/13/2015 1038
Methylene chloride	ND		1	1.0	0.42	ug/L	08/13/2015 1038
Naphthalene	ND		1	1.0	0.14	ug/L	08/13/2015 1038

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82326-001
Batch: 82326
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
n-Propylbenzene	ND		1	1.0	0.12	ug/L	08/13/2015 1038
Styrene	ND		1	1.0	0.13	ug/L	08/13/2015 1038
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.13	ug/L	08/13/2015 1038
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.19	ug/L	08/13/2015 1038
Tetrachloroethene	ND		1	1.0	0.22	ug/L	08/13/2015 1038
Toluene	ND		1	1.0	0.24	ug/L	08/13/2015 1038
1,2,4-Trichlorobenzene	ND		1	1.0	0.13	ug/L	08/13/2015 1038
1,2,3-Trichlorobenzene	ND		1	1.0	0.18	ug/L	08/13/2015 1038
1,1,1-Trichloroethane	ND		1	1.0	0.24	ug/L	08/13/2015 1038
1,1,2-Trichloroethane	ND		1	1.0	0.22	ug/L	08/13/2015 1038
Trichloroethene	ND		1	1.0	0.16	ug/L	08/13/2015 1038
Trichlorofluoromethane	ND		1	1.0	0.74	ug/L	08/13/2015 1038
1,2,3-Trichloropropane	ND		1	1.0	0.35	ug/L	08/13/2015 1038
1,3,5-Trimethylbenzene	ND		1	1.0	0.11	ug/L	08/13/2015 1038
1,2,4-Trimethylbenzene	ND		1	1.0	0.13	ug/L	08/13/2015 1038
Vinyl acetate	ND		1	5.0	1.0	ug/L	08/13/2015 1038
Vinyl chloride	ND		1	1.0	0.50	ug/L	08/13/2015 1038
m+p - Xylenes	ND		1	1.0	0.19	ug/L	08/13/2015 1038
o - Xylenes	ND		1	1.0	0.14	ug/L	08/13/2015 1038
Xylenes (total)	ND		1	1.0	0.32	ug/L	08/13/2015 1038

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		76	70-130
Toluene-d8		87	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82326-002
Batch: 82326
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	77		1	77	60-140	08/13/2015 0940
Benzene	50	50		1	100	70-130	08/13/2015 0940
Bromobenzene	50	55		1	109	70-130	08/13/2015 0940
Bromochloromethane	50	50		1	100	70-130	08/13/2015 0940
Bromodichloromethane	50	50		1	101	70-130	08/13/2015 0940
Bromoform	50	53		1	105	70-130	08/13/2015 0940
Bromomethane (Methyl bromide)	50	46		1	91	60-140	08/13/2015 0940
2-Butanone (MEK)	100	87		1	87	60-140	08/13/2015 0940
n-Butylbenzene	50	54		1	108	70-130	08/13/2015 0940
tert-Butylbenzene	50	55		1	111	70-130	08/13/2015 0940
sec-Butylbenzene	50	54		1	109	70-130	08/13/2015 0940
Carbon tetrachloride	50	51		1	101	70-130	08/13/2015 0940
Chlorobenzene	50	53		1	105	70-130	08/13/2015 0940
Chloroethane	50	46		1	93	42-163	08/13/2015 0940
Chloroform	50	45		1	90	70-130	08/13/2015 0940
Chloromethane (Methyl chloride)	50	42		1	84	60-140	08/13/2015 0940
4-Chlorotoluene	50	54		1	107	70-130	08/13/2015 0940
2-Chlorotoluene	50	52		1	104	70-130	08/13/2015 0940
Dibromochloromethane	50	55		1	110	70-130	08/13/2015 0940
1,2-Dibromoethane (EDB)	50	54		1	107	70-130	08/13/2015 0940
1,3-Dichlorobenzene	50	54		1	107	70-130	08/13/2015 0940
1,4-Dichlorobenzene	50	53		1	107	70-130	08/13/2015 0940
1,2-Dichlorobenzene	50	54		1	108	70-130	08/13/2015 0940
Dichlorodifluoromethane	50	48		1	96	60-140	08/13/2015 0940
1,2-Dichloroethane	50	49		1	99	70-130	08/13/2015 0940
1,1-Dichloroethane	50	46		1	92	70-130	08/13/2015 0940
1,1-Dichloroethene	50	50		1	100	70-130	08/13/2015 0940
trans-1,2-Dichloroethene	50	48		1	96	70-130	08/13/2015 0940
cis-1,2-Dichloroethene	50	47		1	94	70-130	08/13/2015 0940
1,2-Dichloropropane	50	49		1	98	70-130	08/13/2015 0940
2,2-Dichloropropane	50	46		1	92	70-130	08/13/2015 0940
1,3-Dichloropropane	50	53		1	105	70-130	08/13/2015 0940
1,1-Dichloropropene	50	48		1	96	70-130	08/13/2015 0940
trans-1,3-Dichloropropene	50	53		1	105	70-130	08/13/2015 0940
cis-1,3-Dichloropropene	50	50		1	100	70-130	08/13/2015 0940
Diisopropyl ether (IPE)	50	49		1	98	70-130	08/13/2015 0940
Ethylbenzene	50	54		1	109	70-130	08/13/2015 0940
2-Hexanone	100	100		1	102	60-140	08/13/2015 0940
Isopropylbenzene	50	54		1	109	70-130	08/13/2015 0940
p-Isopropyltoluene	50	55		1	110	70-130	08/13/2015 0940
Methyl tertiary butyl ether (MTBE)	50	46		1	92	70-130	08/13/2015 0940
4-Methyl-2-pentanone	100	97		1	97	60-140	08/13/2015 0940
Methylene chloride	50	47		1	95	70-130	08/13/2015 0940
Naphthalene	50	54		1	107	70-130	08/13/2015 0940

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82326-002
Batch: 82326
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
n-Propylbenzene	50	53		1	107	70-130	08/13/2015 0940
Styrene	50	53		1	107	70-130	08/13/2015 0940
1,1,2,2-Tetrachloroethane	50	52		1	104	60-140	08/13/2015 0940
1,1,1,2-Tetrachloroethane	50	55		1	110	70-130	08/13/2015 0940
Tetrachloroethene	50	58		1	115	70-130	08/13/2015 0940
Toluene	50	54		1	107	70-130	08/13/2015 0940
1,2,4-Trichlorobenzene	50	54		1	109	70-130	08/13/2015 0940
1,2,3-Trichlorobenzene	50	54		1	108	70-130	08/13/2015 0940
1,1,1-Trichloroethane	50	47		1	95	70-130	08/13/2015 0940
1,1,2-Trichloroethane	50	53		1	106	70-130	08/13/2015 0940
Trichloroethene	50	52		1	104	70-130	08/13/2015 0940
Trichlorofluoromethane	50	49		1	98	70-130	08/13/2015 0940
1,2,3-Trichloropropane	50	54		1	108	70-130	08/13/2015 0940
1,3,5-Trimethylbenzene	50	55		1	109	70-130	08/13/2015 0940
1,2,4-Trimethylbenzene	50	54		1	107	70-130	08/13/2015 0940
Vinyl acetate	50	54		1	108	60-140	08/13/2015 0940
Vinyl chloride	50	46		1	91	70-130	08/13/2015 0940
m+p - Xylenes	50	54		1	109	70-130	08/13/2015 0940
o - Xylenes	50	53		1	106	70-130	08/13/2015 0940
Xylenes (total)	100	110		1	107	70-130	08/13/2015 0940

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		77	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82372-001
Batch: 82372
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Ethanol	ND		1	100	19	ug/L	08/13/2015 2228

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		92	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82372-002
Batch: 82372
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Ethanol	5000	6600		1	132	60-140	08/13/2015 2142

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		81	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

GCAL ANALYTICAL LABORATORIES, LLC

CHAIN OF CUSTODY RECORD

GCAL USE ONLY

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

QH08006

Report to:
Client: ERM
Address: 15720 BRIXHAM HILL AVE
CHARLOTTE, NC 28277
Contact: ED HOLLIFIELD
Phone: 704-301-2262
E-mail: ED.HOLLIFIELD@ERM.COM

Bill to:
Client:
Address:
Contact:
Phone:
E-mail:

GCAL use onl
Custody Seal used ☐ yes
intact ☐ yes ☐ no
Temperature °C

P.O. Number

Project Name/Number: ECI ELON 0294369

Sampled By: TOM NAUMANN

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Analytical Requests & Method: VOCs (8260)

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	HCl	Preservative
GW	8/7/15	1415		X	MW-11	3	X	
	8/4/15	1600			~~MW-14~~ MW-15			
	8/5/15	0930			MW-15D			
	8/5/15	1115			MW-16			
	8/5/15	1315			DW-16			
	8/5/15	1500			DW-16D			
	8/5/15	1600			MW-17			
	8/5/15	1715			DW-17			
	8/6/15	0945			DW-17D			
	8/6/15	[redacted]1715			OB-1A			
	8/6/15	1430			OB-1B			
	8/6/15	1145			OB-2A			
	8/6/15	1700			OB-2B			

Air Bill No:

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☑ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
TOM NAUMANN	8/7/15	1536	FED EX	8/7/15	1530
FedEx	8/8/15	0935	[signature]	8/8/15	0935

Note: T = 2.5°C

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue
GW = GROUND WATER

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, L.L.C.

CHAIN OF CUSTODY RECORD

GCAL USE ONLY

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

QH08006

Report to:
Client: ERM
Address: 15720 BROXHAM HILL AVE, CHARLOTTE, NC
Contact: ED HOLFIELD
Phone: 704-301-2262
E-mail: ED.HOLFIELD@ERM.com

Bill to:
Client:
Address: 28277
Contact:
Phone:
E-mail:

Analytical Requests & Method

GCAL use o
Custody Se
used ☐ ye
intact ☐ yes ☐ no
Temperature °C

P.O. Number: 02
Project Name/Number: ECI ELON 0294369
Sampled By: TOM NAUMANN

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	VOCs (8260)											Preservative
GW	8/5/15			X	DUP-01	3	X											
W					TRIP BLANK	2	X											
					TEMP BLANK	1												

Air Bill No:

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☑ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
TOM NAUMANN	8/7/15	1530	FED EX	8/7/15	1530
FedEx	8/8/15	0935	[illegible]	8/8/15	0935

Note: T = 2.5°C

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue
GW = GROUND WATER

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Page 1 of 1
Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: ERM Cooler Inspected by/date: TGR / 8/8/15 Lot #: QH08006

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ Other

Yes ☑	No ☐		1. Were custody seals present on the cooler?
Yes ☑	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
– 12.5/2.5 °C ___/___/___ °C ___/___/___ °C ___/___/___ °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☐	No ☑		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	17165	24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) using SR #_____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR#_____

Sample labels applied by: TGR Verified by: _____ Date: 8/8/15

Comments:

Report of Analysis

ERM NC, Inc.
Ballantyne One
15720 Brixham Hill Avenue, Suite 120
Charlotte, NC 28277
Attention: Ed Hollifield

Project Name: ECI Whitsett

Project Number: 0294369

Lot Number: QI24010

Date Completed: 09/29/2015

Kelly M. Nance
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
ERM NC, Inc.
Lot Number: QI24010

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

GC/MS Volatiles

The method blank associated with batches 85830 and 85979 had compounds detected at a concentration that was above the MDL but below the PQL. All samples associated with this method blank were ND for this analyte which negates the possibility of false positives or sample contamination.

Sample -003 (trip blank) had the surrogates recovered outside of the acceptance limits in the analysis for ethanol. There was insufficient sample volume remaining for re-analysis.

Sample Summary

ERM NC, Inc.

Lot Number: QI24010

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	ECI-14D-092315	Aqueous	09/23/2015 1000	09/24/2015
002	ECI-MW14-092315	Aqueous	09/23/2015 1130	09/24/2015
003	TRIP BLANK	Aqueous	09/23/2015 1130	09/24/2015

(3 samples)

Executive Summary

ERM NC, Inc.

Lot Number: QI24010

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	ECI-MW14-092315	Aqueous	Acetone	8260B	3.7	J	ug/L	8

(1 detection)

Client: ERM NC, Inc.
Description: ECI-14D-092315
Date Sampled: 09/23/2015 1000
Date Received: 09/24/2015

Laboratory ID: QI24010-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/25/2015 1956	SES		85830

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: ECI-14D-092315
Date Sampled: 09/23/2015 1000
Date Received: 09/24/2015

Laboratory ID: QI24010-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/25/2015 1956	SES		85830

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/28/2015 1755	JM1		85969

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.	Laboratory ID: QI24010-001
Description: ECI-14D-092315	Matrix: Aqueous
Date Sampled: 09/23/2015 1000	
Date Received: 09/24/2015	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: ECI-MW14-092315
Date Sampled: 09/23/2015 1130
Date Received: 09/24/2015

Laboratory ID: QI24010-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/25/2015 2018	SES		85830

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	3.7	J	20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: ECI-MW14-092315
Date Sampled: 09/23/2015 1130
Date Received: 09/24/2015

Laboratory ID: QI24010-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/25/2015 2018	SES		85830

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/28/2015 1819	JM1		85969

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: ECI-MW14-092315
Date Sampled: 09/23/2015 1130
Date Received: 09/24/2015

Laboratory ID: QI24010-002
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: TRIP BLANK
Date Sampled: 09/23/2015 1130
Date Received: 09/24/2015

Laboratory ID: QI24010-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/28/2015 1432	PAP		85979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.21	ug/L	1
Bromobenzene	108-86-1	8260B	ND		1.0	0.14	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
n-Butylbenzene	104-51-8	8260B	ND		1.0	0.14	ug/L	1
sec-Butylbenzene	135-98-8	8260B	ND		1.0	0.14	ug/L	1
tert-Butylbenzene	98-06-6	8260B	ND		1.0	0.14	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.19	ug/L	1
2-Chlorotoluene	95-49-8	8260B	ND		1.0	0.18	ug/L	1
4-Chlorotoluene	106-43-4	8260B	ND		1.0	0.18	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.29	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	0.15	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	0.17	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	0.28	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.22	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.26	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		1.0	0.14	ug/L	1
p-Isopropyltoluene	99-87-6	8260B	ND		1.0	0.14	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: TRIP BLANK
Date Sampled: 09/23/2015 1130
Date Received: 09/24/2015

Laboratory ID: QI24010-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/28/2015 1432	PAP		85979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.42	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.14	ug/L	1
n-Propylbenzene	103-65-1	8260B	ND		1.0	0.12	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.13	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.19	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.24	ug/L	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		1.0	0.18	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.22	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.35	ug/L	1
1,2,4-Trimethylbenzene	95-63-6	8260B	ND		1.0	0.13	ug/L	1
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		1.0	0.11	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.32	ug/L	1
m+p - Xylenes	179601-23-1	8260B	ND		1.0	0.19	ug/L	1
o - Xylenes	95-47-6	8260B	ND		1.0	0.14	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		103	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/28/2015 1127	JM1		85969

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: ERM NC, Inc.
Description: TRIP BLANK
Date Sampled: 09/23/2015 1130
Date Received: 09/24/2015

Laboratory ID: QI24010-003
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	N	29	70-130
Bromofluorobenzene	N	23	70-130
Toluene-d8	N	27	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ85830-001
Batch: 85830
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	09/25/2015 1421
Benzene	ND		1	1.0	0.21	ug/L	09/25/2015 1421
Bromobenzene	0.21	J	1	1.0	0.14	ug/L	09/25/2015 1421
Bromochloromethane	ND		1	1.0	0.45	ug/L	09/25/2015 1421
Bromodichloromethane	ND		1	1.0	0.23	ug/L	09/25/2015 1421
Bromoform	ND		1	1.0	0.35	ug/L	09/25/2015 1421
Bromomethane (Methyl bromide)	ND		1	2.0	0.19	ug/L	09/25/2015 1421
2-Butanone (MEK)	ND		1	10	1.8	ug/L	09/25/2015 1421
sec-Butylbenzene	ND		1	1.0	0.14	ug/L	09/25/2015 1421
n-Butylbenzene	ND		1	1.0	0.14	ug/L	09/25/2015 1421
tert-Butylbenzene	ND		1	1.0	0.14	ug/L	09/25/2015 1421
Carbon tetrachloride	ND		1	1.0	0.31	ug/L	09/25/2015 1421
Chlorobenzene	ND		1	1.0	0.20	ug/L	09/25/2015 1421
Chloroethane	ND		1	2.0	0.28	ug/L	09/25/2015 1421
Chloroform	0.23	J	1	1.0	0.21	ug/L	09/25/2015 1421
Chloromethane (Methyl chloride)	ND		1	1.0	0.19	ug/L	09/25/2015 1421
2-Chlorotoluene	0.19	J	1	1.0	0.18	ug/L	09/25/2015 1421
4-Chlorotoluene	0.22	J	1	1.0	0.18	ug/L	09/25/2015 1421
Dibromochloromethane	ND		1	1.0	0.23	ug/L	09/25/2015 1421
1,2-Dibromoethane (EDB)	ND		1	1.0	0.17	ug/L	09/25/2015 1421
1,4-Dichlorobenzene	ND		1	1.0	0.19	ug/L	09/25/2015 1421
1,2-Dichlorobenzene	ND		1	1.0	0.46	ug/L	09/25/2015 1421
1,3-Dichlorobenzene	ND		1	1.0	0.19	ug/L	09/25/2015 1421
Dichlorodifluoromethane	ND		1	2.0	0.85	ug/L	09/25/2015 1421
1,2-Dichloroethane	ND		1	1.0	0.23	ug/L	09/25/2015 1421
1,1-Dichloroethane	ND		1	1.0	0.19	ug/L	09/25/2015 1421
cis-1,2-Dichloroethene	ND		1	1.0	0.20	ug/L	09/25/2015 1421
trans-1,2-Dichloroethene	ND		1	1.0	0.33	ug/L	09/25/2015 1421
1,1-Dichloroethene	ND		1	1.0	0.31	ug/L	09/25/2015 1421
2,2-Dichloropropane	ND		1	1.0	0.17	ug/L	09/25/2015 1421
1,3-Dichloropropane	ND		1	1.0	0.15	ug/L	09/25/2015 1421
1,2-Dichloropropane	ND		1	1.0	0.29	ug/L	09/25/2015 1421
trans-1,3-Dichloropropene	ND		1	1.0	0.22	ug/L	09/25/2015 1421
1,1-Dichloropropene	ND		1	2.0	0.28	ug/L	09/25/2015 1421
cis-1,3-Dichloropropene	ND		1	1.0	0.30	ug/L	09/25/2015 1421
Diisopropyl ether (IPE)	ND		1	1.0	0.26	ug/L	09/25/2015 1421
Ethylbenzene	ND		1	1.0	0.21	ug/L	09/25/2015 1421
2-Hexanone	0.38	J	1	10	0.26	ug/L	09/25/2015 1421
Isopropylbenzene	ND		1	1.0	0.14	ug/L	09/25/2015 1421
p-Isopropyltoluene	ND		1	1.0	0.14	ug/L	09/25/2015 1421
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.23	ug/L	09/25/2015 1421
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	09/25/2015 1421
Methylene chloride	ND		1	1.0	0.42	ug/L	09/25/2015 1421
Naphthalene	0.27	J	1	1.0	0.14	ug/L	09/25/2015 1421

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ85830-001
Batch: 85830
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
n-Propylbenzene	ND		1	1.0	0.12	ug/L	09/25/2015 1421
Styrene	ND		1	1.0	0.13	ug/L	09/25/2015 1421
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.13	ug/L	09/25/2015 1421
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.19	ug/L	09/25/2015 1421
Tetrachloroethene	ND		1	1.0	0.22	ug/L	09/25/2015 1421
Toluene	ND		1	1.0	0.24	ug/L	09/25/2015 1421
1,2,4-Trichlorobenzene	ND		1	1.0	0.13	ug/L	09/25/2015 1421
1,2,3-Trichlorobenzene	ND		1	1.0	0.18	ug/L	09/25/2015 1421
1,1,1-Trichloroethane	ND		1	1.0	0.24	ug/L	09/25/2015 1421
1,1,2-Trichloroethane	ND		1	1.0	0.22	ug/L	09/25/2015 1421
Trichloroethene	ND		1	1.0	0.16	ug/L	09/25/2015 1421
Trichlorofluoromethane	ND		1	1.0	0.74	ug/L	09/25/2015 1421
1,2,3-Trichloropropane	ND		1	1.0	0.35	ug/L	09/25/2015 1421
1,3,5-Trimethylbenzene	ND		1	1.0	0.11	ug/L	09/25/2015 1421
1,2,4-Trimethylbenzene	ND		1	1.0	0.13	ug/L	09/25/2015 1421
Vinyl acetate	ND		1	5.0	1.0	ug/L	09/25/2015 1421
Vinyl chloride	ND		1	1.0	0.50	ug/L	09/25/2015 1421
o - Xylenes	ND		1	1.0	0.14	ug/L	09/25/2015 1421
m+p - Xylenes	ND		1	1.0	0.19	ug/L	09/25/2015 1421
Xylenes (total)	ND		1	1.0	0.32	ug/L	09/25/2015 1421

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ85830-002
Batch: 85830
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	140		1	140	60-140	09/25/2015 1214
Benzene	50	57		1	114	70-130	09/25/2015 1214
Bromobenzene	50	56		1	111	70-130	09/25/2015 1214
Bromochloromethane	50	59		1	117	70-130	09/25/2015 1214
Bromodichloromethane	50	58		1	116	70-130	09/25/2015 1214
Bromoform	50	51		1	102	70-130	09/25/2015 1214
Bromomethane (Methyl bromide)	50	56		1	113	60-140	09/25/2015 1214
2-Butanone (MEK)	100	130		1	126	60-140	09/25/2015 1214
sec-Butylbenzene	50	61		1	122	70-130	09/25/2015 1214
n-Butylbenzene	50	63		1	127	70-130	09/25/2015 1214
tert-Butylbenzene	50	61		1	121	70-130	09/25/2015 1214
Carbon tetrachloride	50	59		1	118	70-130	09/25/2015 1214
Chlorobenzene	50	55		1	110	70-130	09/25/2015 1214
Chloroethane	50	56		1	112	60-140	09/25/2015 1214
Chloroform	50	54		1	108	70-130	09/25/2015 1214
Chloromethane (Methyl chloride)	50	57		1	115	60-140	09/25/2015 1214
2-Chlorotoluene	50	59		1	118	70-130	09/25/2015 1214
4-Chlorotoluene	50	57		1	113	70-130	09/25/2015 1214
Dibromochloromethane	50	53		1	107	70-130	09/25/2015 1214
1,2-Dibromoethane (EDB)	50	54		1	109	70-130	09/25/2015 1214
1,4-Dichlorobenzene	50	56		1	112	70-130	09/25/2015 1214
1,2-Dichlorobenzene	50	58		1	117	70-130	09/25/2015 1214
1,3-Dichlorobenzene	50	58		1	117	70-130	09/25/2015 1214
Dichlorodifluoromethane	50	61		1	121	60-140	09/25/2015 1214
1,2-Dichloroethane	50	60		1	120	70-130	09/25/2015 1214
1,1-Dichloroethane	50	60		1	120	70-130	09/25/2015 1214
cis-1,2-Dichloroethene	50	57		1	114	70-130	09/25/2015 1214
trans-1,2-Dichloroethene	50	60		1	119	70-130	09/25/2015 1214
1,1-Dichloroethene	50	60		1	120	70-130	09/25/2015 1214
2,2-Dichloropropane	50	62		1	124	70-130	09/25/2015 1214
1,3-Dichloropropane	50	53		1	105	70-130	09/25/2015 1214
1,2-Dichloropropane	50	57		1	115	70-130	09/25/2015 1214
trans-1,3-Dichloropropene	50	52		1	104	70-130	09/25/2015 1214
1,1-Dichloropropene	50	59		1	118	70-130	09/25/2015 1214
cis-1,3-Dichloropropene	50	57		1	114	70-130	09/25/2015 1214
Diisopropyl ether (IPE)	50	61		1	122	70-130	09/25/2015 1214
Ethylbenzene	50	55		1	110	70-130	09/25/2015 1214
2-Hexanone	100	120		1	119	60-140	09/25/2015 1214
Isopropylbenzene	50	59		1	118	70-130	09/25/2015 1214
p-Isopropyltoluene	50	62		1	124	70-130	09/25/2015 1214
Methyl tertiary butyl ether (MTBE)	50	60		1	119	70-130	09/25/2015 1214
4-Methyl-2-pentanone	100	120		1	121	60-140	09/25/2015 1214
Methylene chloride	50	58		1	117	70-130	09/25/2015 1214
Naphthalene	50	57		1	113	70-130	09/25/2015 1214

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ85830-002
Batch: 85830
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
n-Propylbenzene	50	61		1	121	70-130	09/25/2015 1214
Styrene	50	53		1	106	70-130	09/25/2015 1214
1,1,2,2-Tetrachloroethane	50	57		1	114	60-140	09/25/2015 1214
1,1,1,2-Tetrachloroethane	50	55		1	111	70-130	09/25/2015 1214
Tetrachloroethene	50	53		1	107	70-130	09/25/2015 1214
Toluene	50	58		1	116	70-130	09/25/2015 1214
1,2,4-Trichlorobenzene	50	55		1	109	70-130	09/25/2015 1214
1,2,3-Trichlorobenzene	50	45		1	90	70-130	09/25/2015 1214
1,1,1-Trichloroethane	50	59		1	119	70-130	09/25/2015 1214
1,1,2-Trichloroethane	50	50		1	101	70-130	09/25/2015 1214
Trichloroethene	50	58		1	116	70-130	09/25/2015 1214
Trichlorofluoromethane	50	52		1	103	70-130	09/25/2015 1214
1,2,3-Trichloropropane	50	52		1	105	70-130	09/25/2015 1214
1,3,5-Trimethylbenzene	50	59		1	119	70-130	09/25/2015 1214
1,2,4-Trimethylbenzene	50	56		1	112	70-130	09/25/2015 1214
Vinyl acetate	50	46		1	92	60-140	09/25/2015 1214
Vinyl chloride	50	57		1	115	70-130	09/25/2015 1214
o - Xylenes	50	55		1	110	70-130	09/25/2015 1214
m+p - Xylenes	50	54		1	108	70-130	09/25/2015 1214
Xylenes (total)	100	110		1	109	70-130	09/25/2015 1214

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ85969-001
Batch: 85969
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Ethanol	ND		1	100	19	ug/L	09/28/2015 1046

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		112	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ85969-002
Batch: 85969
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Ethanol	5000	5200		1	104	60-140	09/28/2015 0946

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ85979-001
Batch: 85979
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	09/28/2015 1226
Benzene	ND		1	1.0	0.21	ug/L	09/28/2015 1226
Bromobenzene	ND		1	1.0	0.14	ug/L	09/28/2015 1226
Bromochloromethane	ND		1	1.0	0.45	ug/L	09/28/2015 1226
Bromodichloromethane	ND		1	1.0	0.23	ug/L	09/28/2015 1226
Bromoform	ND		1	1.0	0.35	ug/L	09/28/2015 1226
Bromomethane (Methyl bromide)	ND		1	2.0	0.19	ug/L	09/28/2015 1226
2-Butanone (MEK)	ND		1	10	1.8	ug/L	09/28/2015 1226
sec-Butylbenzene	ND		1	1.0	0.14	ug/L	09/28/2015 1226
n-Butylbenzene	ND		1	1.0	0.14	ug/L	09/28/2015 1226
tert-Butylbenzene	ND		1	1.0	0.14	ug/L	09/28/2015 1226
Carbon tetrachloride	ND		1	1.0	0.31	ug/L	09/28/2015 1226
Chlorobenzene	ND		1	1.0	0.20	ug/L	09/28/2015 1226
Chloroethane	ND		1	2.0	0.28	ug/L	09/28/2015 1226
Chloroform	0.24	J	1	1.0	0.21	ug/L	09/28/2015 1226
Chloromethane (Methyl chloride)	ND		1	1.0	0.19	ug/L	09/28/2015 1226
4-Chlorotoluene	ND		1	1.0	0.18	ug/L	09/28/2015 1226
2-Chlorotoluene	ND		1	1.0	0.18	ug/L	09/28/2015 1226
Dibromochloromethane	ND		1	1.0	0.23	ug/L	09/28/2015 1226
1,2-Dibromoethane (EDB)	ND		1	1.0	0.17	ug/L	09/28/2015 1226
1,3-Dichlorobenzene	ND		1	1.0	0.19	ug/L	09/28/2015 1226
1,2-Dichlorobenzene	ND		1	1.0	0.46	ug/L	09/28/2015 1226
1,4-Dichlorobenzene	ND		1	1.0	0.19	ug/L	09/28/2015 1226
Dichlorodifluoromethane	ND		1	2.0	0.85	ug/L	09/28/2015 1226
1,2-Dichloroethane	ND		1	1.0	0.23	ug/L	09/28/2015 1226
1,1-Dichloroethane	ND		1	1.0	0.19	ug/L	09/28/2015 1226
cis-1,2-Dichloroethene	ND		1	1.0	0.20	ug/L	09/28/2015 1226
1,1-Dichloroethene	ND		1	1.0	0.31	ug/L	09/28/2015 1226
trans-1,2-Dichloroethene	ND		1	1.0	0.33	ug/L	09/28/2015 1226
1,3-Dichloropropane	ND		1	1.0	0.15	ug/L	09/28/2015 1226
2,2-Dichloropropane	ND		1	1.0	0.17	ug/L	09/28/2015 1226
1,2-Dichloropropane	ND		1	1.0	0.29	ug/L	09/28/2015 1226
trans-1,3-Dichloropropene	ND		1	1.0	0.22	ug/L	09/28/2015 1226
cis-1,3-Dichloropropene	ND		1	1.0	0.30	ug/L	09/28/2015 1226
1,1-Dichloropropene	ND		1	2.0	0.28	ug/L	09/28/2015 1226
Diisopropyl ether (IPE)	ND		1	1.0	0.26	ug/L	09/28/2015 1226
Ethylbenzene	ND		1	1.0	0.21	ug/L	09/28/2015 1226
2-Hexanone	ND		1	10	0.26	ug/L	09/28/2015 1226
Isopropylbenzene	ND		1	1.0	0.14	ug/L	09/28/2015 1226
p-Isopropyltoluene	ND		1	1.0	0.14	ug/L	09/28/2015 1226
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.23	ug/L	09/28/2015 1226
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	09/28/2015 1226
Methylene chloride	ND		1	1.0	0.42	ug/L	09/28/2015 1226
Naphthalene	0.20	J	1	1.0	0.14	ug/L	09/28/2015 1226

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ85979-001
Batch: 85979
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
n-Propylbenzene	ND		1	1.0	0.12	ug/L	09/28/2015 1226
Styrene	ND		1	1.0	0.13	ug/L	09/28/2015 1226
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.13	ug/L	09/28/2015 1226
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.19	ug/L	09/28/2015 1226
Tetrachloroethene	ND		1	1.0	0.22	ug/L	09/28/2015 1226
Toluene	ND		1	1.0	0.24	ug/L	09/28/2015 1226
1,2,4-Trichlorobenzene	ND		1	1.0	0.13	ug/L	09/28/2015 1226
1,2,3-Trichlorobenzene	ND		1	1.0	0.18	ug/L	09/28/2015 1226
1,1,1-Trichloroethane	ND		1	1.0	0.24	ug/L	09/28/2015 1226
1,1,2-Trichloroethane	ND		1	1.0	0.22	ug/L	09/28/2015 1226
Trichloroethene	ND		1	1.0	0.16	ug/L	09/28/2015 1226
Trichlorofluoromethane	ND		1	1.0	0.74	ug/L	09/28/2015 1226
1,2,3-Trichloropropane	ND		1	1.0	0.35	ug/L	09/28/2015 1226
1,3,5-Trimethylbenzene	ND		1	1.0	0.11	ug/L	09/28/2015 1226
1,2,4-Trimethylbenzene	ND		1	1.0	0.13	ug/L	09/28/2015 1226
Vinyl acetate	ND		1	5.0	1.0	ug/L	09/28/2015 1226
Vinyl chloride	ND		1	1.0	0.50	ug/L	09/28/2015 1226
m+p - Xylenes	ND		1	1.0	0.19	ug/L	09/28/2015 1226
o - Xylenes	ND		1	1.0	0.14	ug/L	09/28/2015 1226
Xylenes (total)	ND		1	1.0	0.32	ug/L	09/28/2015 1226

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		106	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ85979-002
Batch: 85979
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	83		1	83	60-140	09/28/2015 1014
Benzene	50	44		1	88	70-130	09/28/2015 1014
Bromobenzene	50	46		1	91	70-130	09/28/2015 1014
Bromochloromethane	50	46		1	92	70-130	09/28/2015 1014
Bromodichloromethane	50	45		1	91	70-130	09/28/2015 1014
Bromoform	50	42		1	83	70-130	09/28/2015 1014
Bromomethane (Methyl bromide)	50	42		1	85	60-140	09/28/2015 1014
2-Butanone (MEK)	100	94		1	94	60-140	09/28/2015 1014
sec-Butylbenzene	50	44		1	88	70-130	09/28/2015 1014
n-Butylbenzene	50	44		1	88	70-130	09/28/2015 1014
tert-Butylbenzene	50	46		1	91	70-130	09/28/2015 1014
Carbon tetrachloride	50	45		1	91	70-130	09/28/2015 1014
Chlorobenzene	50	44		1	89	70-130	09/28/2015 1014
Chloroethane	50	45		1	90	60-140	09/28/2015 1014
Chloroform	50	41		1	83	70-130	09/28/2015 1014
Chloromethane (Methyl chloride)	50	43		1	86	60-140	09/28/2015 1014
4-Chlorotoluene	50	45		1	90	70-130	09/28/2015 1014
2-Chlorotoluene	50	44		1	89	70-130	09/28/2015 1014
Dibromochloromethane	50	48		1	96	70-130	09/28/2015 1014
1,2-Dibromoethane (EDB)	50	45		1	89	70-130	09/28/2015 1014
1,3-Dichlorobenzene	50	44		1	89	70-130	09/28/2015 1014
1,2-Dichlorobenzene	50	43		1	86	70-130	09/28/2015 1014
1,4-Dichlorobenzene	50	43		1	85	70-130	09/28/2015 1014
Dichlorodifluoromethane	50	43		1	87	60-140	09/28/2015 1014
1,2-Dichloroethane	50	43		1	87	70-130	09/28/2015 1014
1,1-Dichloroethane	50	45		1	90	70-130	09/28/2015 1014
cis-1,2-Dichloroethene	50	46		1	92	70-130	09/28/2015 1014
1,1-Dichloroethene	50	45		1	89	70-130	09/28/2015 1014
trans-1,2-Dichloroethene	50	45		1	90	70-130	09/28/2015 1014
1,3-Dichloropropane	50	44		1	87	70-130	09/28/2015 1014
2,2-Dichloropropane	50	41		1	82	70-130	09/28/2015 1014
1,2-Dichloropropane	50	45		1	91	70-130	09/28/2015 1014
trans-1,3-Dichloropropene	50	47		1	93	70-130	09/28/2015 1014
cis-1,3-Dichloropropene	50	48		1	96	70-130	09/28/2015 1014
1,1-Dichloropropene	50	43		1	86	70-130	09/28/2015 1014
Diisopropyl ether (IPE)	50	47		1	95	70-130	09/28/2015 1014
Ethylbenzene	50	44		1	87	70-130	09/28/2015 1014
2-Hexanone	100	91		1	91	60-140	09/28/2015 1014
Isopropylbenzene	50	45		1	91	70-130	09/28/2015 1014
p-Isopropyltoluene	50	45		1	90	70-130	09/28/2015 1014
Methyl tertiary butyl ether (MTBE)	50	45		1	90	70-130	09/28/2015 1014
4-Methyl-2-pentanone	100	89		1	89	60-140	09/28/2015 1014
Methylene chloride	50	43		1	85	70-130	09/28/2015 1014
Naphthalene	50	40		1	81	70-130	09/28/2015 1014

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ85979-002
Batch: 85979
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
n-Propylbenzene	50	47		1	93	70-130	09/28/2015 1014
Styrene	50	47		1	95	70-130	09/28/2015 1014
1,1,2,2-Tetrachloroethane	50	45		1	91	60-140	09/28/2015 1014
1,1,1,2-Tetrachloroethane	50	46		1	91	70-130	09/28/2015 1014
Tetrachloroethene	50	44		1	88	70-130	09/28/2015 1014
Toluene	50	44		1	89	70-130	09/28/2015 1014
1,2,4-Trichlorobenzene	50	39		1	78	70-130	09/28/2015 1014
1,2,3-Trichlorobenzene	50	40		1	81	70-130	09/28/2015 1014
1,1,1-Trichloroethane	50	43		1	87	70-130	09/28/2015 1014
1,1,2-Trichloroethane	50	44		1	89	70-130	09/28/2015 1014
Trichloroethene	50	46		1	91	70-130	09/28/2015 1014
Trichlorofluoromethane	50	44		1	88	70-130	09/28/2015 1014
1,2,3-Trichloropropane	50	44		1	88	70-130	09/28/2015 1014
1,3,5-Trimethylbenzene	50	45		1	90	70-130	09/28/2015 1014
1,2,4-Trimethylbenzene	50	44		1	89	70-130	09/28/2015 1014
Vinyl acetate	50	50		1	100	60-140	09/28/2015 1014
Vinyl chloride	50	45		1	90	70-130	09/28/2015 1014
m+p - Xylenes	50	46		1	92	70-130	09/28/2015 1014
o - Xylenes	50	45		1	90	70-130	09/28/2015 1014
Xylenes (total)	100	91		1	91	70-130	09/28/2015 1014

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 52959

Client	ERM
Address	15720 Brixham Hill Ave. Ste 120
City	CHARLOTTE
State	NC
Zip Code	28277
Project Name	ECI WHITSETT
Project No.	0294369
P.O. No.	
Report to Contact	Ed Hollifield
Sampler's Signature	X
Printed Name	Velazquez
Telephone No. / E-mail	704 409 3431/ed.hollifield@erm.com
Quote No.	17385
Page	1 of 1
Analysis (Attach list if more space is needed)	

Q124010

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Aqueous	Solid	Ice Applied		Liquids	HCl	HNO3	HCl	NaOH	NaS2O3		VOC 8260B									Remarks / Cooler I.D.
ECI-14D-092315	9/23/15	1000	G	X							6				X									
ECI-MW14-092315	9/23/15	1130	G	X							6				X									
TRIP BLANK	9/23/15	1130	G	X							2				X									

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☒ Rush (Specify) 3 TAT

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	9/23/15	1600	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by FedEx	9-24-15	0905	4. Laboratory received by	9-24-15	0905

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack
Receipt Temp. 4.0 °C 1709

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-193 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME5018C-01

Page 1 of 1
Replaces Date: 09/23/15
Effective Date: 04/30/15

Sample Receipt Checklist (SRC) 9-24-15

Client: ERM Cooler Inspected by/date: KWP/9-23 Lot #: QD24010

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Other			
Yes ☑	No ☐		1. Were custody seals present on the cooler?
Yes ☑	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?
pH strip ID: N/A Cl strip ID: N/A			
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:			
170/ 4.0/4.0 °C / / °C / / °C / / °C			
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C			
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☑	NA ☐	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☑	KWP 9-24-15	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	LIMS	24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be ≥2 by _____ Date: _____
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR#

Sample labels applied by: KWP Verified by: _____ Date: 9-24-15

Comments:
-002 vial received broken

Southeast ACCUTEST LABORATORIES

06/02/14

Technical Report for

ERM

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Accutest Job Number: FA15202

Sampling Date: 05/21/14

Report to:

ERM
1130 Situs Court Suite 250
Raleigh, NC 27606
gregory.kanellis@erm.com; Lane.Dorman@erm.com;
Robert.Laumann@erm.com
ATTN: Lane Dorman

Total number of pages in report: **65**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

ERM

Job No: FA15202

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15202-1	05/21/14	10:30	GK	05/22/14	SO	Soil	BG-1 @ 5.5
FA15202-2	05/21/14	10:45	GK	05/22/14	SO	Soil	BG-2 @ 3'
FA15202-3	05/21/14	11:00	GK	05/22/14	SO	Soil	BG-3 @ 3'
FA15202-4	05/21/14	11:15	GK	05/22/14	SO	Soil	BG-4 @ 4'
FA15202-5	05/21/14	11:30	GK	05/22/14	SO	Soil	BG-5 @ 2'
FA15202-6	05/21/14	11:45	GK	05/22/14	SO	Soil	BG-6 @ 3'
FA15202-7	05/21/14	12:00	GK	05/22/14	SO	Soil	BG-7 @ 3'
FA15202-8	05/21/14	14:00	GK	05/22/14	SO	Soil	WP-49 @ 3'
FA15202-9	05/21/14	15:45	GK	05/22/14	SO	Soil	WP-50 @ 4'
FA15202-10	05/21/14	15:50	GK	05/22/14	SO	Soil	WP-50 @ 12.5'
FA15202-11	05/21/14	00:00	GK	05/22/14	SO	Trip Blank Soil	TRIP BLANK-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA15202
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/21/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15202-1	**BG-1 @ 5.5**					
Arsenic		0.77	0.52	0.10	mg/kg	SW846 6010C
Beryllium [a]		0.19 B	0.52	0.052	mg/kg	SW846 6010C
Cadmium [a]		0.057 B	0.42	0.052	mg/kg	SW846 6010C
Chromium		18.6	0.52	0.052	mg/kg	SW846 6010C
Copper [a]		38.9	2.6	0.10	mg/kg	SW846 6010C
Lead		2.5	1.0	0.084	mg/kg	SW846 6010C
Manganese		342	0.78	0.026	mg/kg	SW846 6010C
Mercury		0.0073 B	0.044	0.0044	mg/kg	SW846 7471B
Nickel		14.9	2.1	0.026	mg/kg	SW846 6010C
Silver		0.17 B	0.52	0.034	mg/kg	SW846 6010C
Zinc		34.6	1.0	0.16	mg/kg	SW846 6010C
FA15202-2	**BG-2 @ 3'**					
Arsenic		1.1	0.56	0.11	mg/kg	SW846 6010C
Beryllium [a]		0.43 B	0.56	0.056	mg/kg	SW846 6010C
Cadmium [a]		0.19 B	0.45	0.056	mg/kg	SW846 6010C
Chromium		20.6	0.56	0.056	mg/kg	SW846 6010C
Copper [a]		65.2	2.8	0.11	mg/kg	SW846 6010C
Lead		7.8	1.1	0.090	mg/kg	SW846 6010C
Manganese		311	0.85	0.028	mg/kg	SW846 6010C
Mercury		0.034 B	0.047	0.0047	mg/kg	SW846 7471B
Nickel		12.8	2.3	0.028	mg/kg	SW846 6010C
Silver		0.24 B	0.56	0.037	mg/kg	SW846 6010C
Zinc		35.2	1.1	0.17	mg/kg	SW846 6010C
FA15202-3	**BG-3 @ 3'**					
Arsenic		1.0	0.55	0.11	mg/kg	SW846 6010C
Beryllium [a]		0.47 B	0.55	0.055	mg/kg	SW846 6010C
Cadmium [a]		0.22 B	0.44	0.055	mg/kg	SW846 6010C
Chromium		21.8	0.55	0.055	mg/kg	SW846 6010C
Copper [a]		72.3	2.7	0.11	mg/kg	SW846 6010C
Lead		8.4	1.1	0.088	mg/kg	SW846 6010C
Manganese		322	0.82	0.027	mg/kg	SW846 6010C
Mercury		0.042 B	0.045	0.0045	mg/kg	SW846 7471B
Nickel		13.3	2.2	0.027	mg/kg	SW846 6010C
Silver		0.24 B	0.55	0.036	mg/kg	SW846 6010C
Zinc		37.6	1.1	0.16	mg/kg	SW846 6010C
FA15202-4	**BG-4 @ 4'**					
Arsenic		0.54	0.54	0.11	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA15202
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/21/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Beryllium [a]		0.29 B	0.54	0.054	mg/kg	SW846 6010C
Cadmium [a]		0.11 B	0.43	0.054	mg/kg	SW846 6010C
Chromium		9.2	0.54	0.054	mg/kg	SW846 6010C
Copper [a]		40.1	2.7	0.11	mg/kg	SW846 6010C
Lead		4.2	1.1	0.087	mg/kg	SW846 6010C
Manganese		363	0.82	0.027	mg/kg	SW846 6010C
Mercury		0.0056 B	0.047	0.0047	mg/kg	SW846 7471B
Nickel		6.9	2.2	0.027	mg/kg	SW846 6010C
Silver		0.26 B	0.54	0.035	mg/kg	SW846 6010C
Zinc		47.7	1.1	0.16	mg/kg	SW846 6010C
FA15202-5	**BG-5 @ 2'**					
Arsenic [a]		1.4	1.1	0.22	mg/kg	SW846 6010C
Beryllium [a]		0.48 B	1.1	0.11	mg/kg	SW846 6010C
Chromium [a]		56.7	1.1	0.11	mg/kg	SW846 6010C
Copper [a]		77.7	5.6	0.22	mg/kg	SW846 6010C
Lead [a]		3.1 B	4.5	0.36	mg/kg	SW846 6010C
Manganese [a]		552	1.7	0.056	mg/kg	SW846 6010C
Mercury		0.034 B	0.048	0.0048	mg/kg	SW846 7471B
Nickel [a]		20.2	4.5	0.056	mg/kg	SW846 6010C
Selenium [a]		2.1 B	2.2	0.34	mg/kg	SW846 6010C
Silver [a]		0.64 B	1.1	0.073	mg/kg	SW846 6010C
Zinc [a]		54.4	4.5	0.67	mg/kg	SW846 6010C
FA15202-6	**BG-6 @ 3'**					
Arsenic [a]		1.3 B	2.0	0.41	mg/kg	SW846 6010C
Beryllium [a]		0.18 B	1.0	0.10	mg/kg	SW846 6010C
Chromium [a]		78.5	2.0	0.20	mg/kg	SW846 6010C
Copper [a]		58.3	5.1	0.20	mg/kg	SW846 6010C
Lead [a]		4.1	4.1	0.32	mg/kg	SW846 6010C
Manganese [a]		419	3.0	0.10	mg/kg	SW846 6010C
Mercury		0.012 B	0.045	0.0045	mg/kg	SW846 7471B
Nickel [a]		24.3	8.1	0.10	mg/kg	SW846 6010C
Selenium [a]		2.0 B	4.1	0.61	mg/kg	SW846 6010C
Silver [a]		0.67 B	2.0	0.13	mg/kg	SW846 6010C
Zinc [a]		35.3	4.1	0.61	mg/kg	SW846 6010C
FA15202-7	**BG-7 @ 3'**					
Arsenic [a]		0.93 B	2.1	0.41	mg/kg	SW846 6010C
Beryllium [a]		0.18 B	1.0	0.10	mg/kg	SW846 6010C
Chromium [a]		82.0	2.1	0.21	mg/kg	SW846 6010C
Copper [a]		61.2	5.2	0.21	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA15202
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/21/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead [a]		4.9	4.1	0.33	mg/kg	SW846 6010C
Manganese [a]		521	3.1	0.10	mg/kg	SW846 6010C
Mercury		0.023 B	0.046	0.0046	mg/kg	SW846 7471B
Nickel [a]		27.9	8.2	0.10	mg/kg	SW846 6010C
Selenium [a]		2.6 B	4.1	0.62	mg/kg	SW846 6010C
Silver [a]		0.65 B	2.1	0.13	mg/kg	SW846 6010C
Zinc [a]		45.3	4.1	0.62	mg/kg	SW846 6010C
FA15202-8	**WP-49 @ 3'**					
Copper [a]		74.1	5.1	0.20	mg/kg	SW846 6010C
Manganese		343	0.76	0.025	mg/kg	SW846 6010C
Nickel		23.6	2.0	0.025	mg/kg	SW846 6010C
Thallium [a]		0.59 B	2.0	0.30	mg/kg	SW846 6010C
Zinc		127	1.0	0.15	mg/kg	SW846 6010C
FA15202-9	**WP-50 @ 4'**					
No hits reported in this sample.						
FA15202-10	**WP-50 @ 12.5'**					
Trichloroethylene		288 J	410	83	ug/kg	SW846 8260B
Total TIC, Volatile		1646 J			ug/kg	
FA15202-11	**TRIP BLANK-1**					
No hits reported in this sample.						

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BG-1 @ 5.5		
Lab Sample ID:	FA15202-1	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	87.0
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.21 U	2.1	0.21	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic	0.77	0.52	0.10	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.19 B	0.52	0.052	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Cadmium [a]	0.057 B	0.42	0.052	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium	18.6	0.52	0.052	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	38.9	2.6	0.10	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Lead	2.5	1.0	0.084	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese	342	0.78	0.026	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.0073 B	0.044	0.0044	mg/kg	1	05/28/14	05/28/14	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel	14.9	2.1	0.026	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium	0.16 U	1.0	0.16	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver	0.17 B	0.52	0.034	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	0.16 U	1.0	0.16	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Zinc	34.6	1.0	0.16	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11626
(2) Instrument QC Batch: MA11628
(3) Instrument QC Batch: MA11630
(4) Prep QC Batch: MP27310
(5) Prep QC Batch: MP27311

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BG-2 @ 3'		
Lab Sample ID:	FA15202-2	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	82.9
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.23 U	2.3	0.23	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic	1.1	0.56	0.11	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.43 B	0.56	0.056	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Cadmium [a]	0.19 B	0.45	0.056	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium	20.6	0.56	0.056	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	65.2	2.8	0.11	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Lead	7.8	1.1	0.090	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese	311	0.85	0.028	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.034 B	0.047	0.0047	mg/kg	1	05/28/14	05/28/14	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel	12.8	2.3	0.028	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium	0.17 U	1.1	0.17	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver	0.24 B	0.56	0.037	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	0.17 U	1.1	0.17	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Zinc	35.2	1.1	0.17	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11626
(2) Instrument QC Batch: MA11628
(3) Instrument QC Batch: MA11630
(4) Prep QC Batch: MP27310
(5) Prep QC Batch: MP27311

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BG-3 @ 3'		
Lab Sample ID:	FA15202-3	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	82.2
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.22 U	2.2	0.22	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic	1.0	0.55	0.11	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.47 B	0.55	0.055	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Cadmium [a]	0.22 B	0.44	0.055	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium	21.8	0.55	0.055	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	72.3	2.7	0.11	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Lead	8.4	1.1	0.088	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese	322	0.82	0.027	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.042 B	0.045	0.0045	mg/kg	1	05/28/14	05/28/14	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel	13.3	2.2	0.027	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium	0.16 U	1.1	0.16	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver	0.24 B	0.55	0.036	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	0.16 U	1.1	0.16	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Zinc	37.6	1.1	0.16	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11626
(2) Instrument QC Batch: MA11628
(3) Instrument QC Batch: MA11630
(4) Prep QC Batch: MP27310
(5) Prep QC Batch: MP27311

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BG-4 @ 4'		
Lab Sample ID:	FA15202-4	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	85.2
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.22 U	2.2	0.22	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic	0.54	0.54	0.11	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.29 B	0.54	0.054	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Cadmium [a]	0.11 B	0.43	0.054	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium	9.2	0.54	0.054	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	40.1	2.7	0.11	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Lead	4.2	1.1	0.087	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese	363	0.82	0.027	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.0056 B	0.047	0.0047	mg/kg	1	05/28/14	05/28/14	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel	6.9	2.2	0.027	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium	0.16 U	1.1	0.16	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver	0.26 B	0.54	0.035	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	0.16 U	1.1	0.16	mg/kg	2	05/28/14	05/29/14	LM	SW846 6010C [3]	SW846 3050B [4]
Zinc	47.7	1.1	0.16	mg/kg	1	05/28/14	05/28/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11626
(2) Instrument QC Batch: MA11628
(3) Instrument QC Batch: MA11630
(4) Prep QC Batch: MP27310
(5) Prep QC Batch: MP27311

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BG-5 @ 2'		
Lab Sample ID:	FA15202-5	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	83.9
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.45 U	4.5	0.45	mg/kg	4	05/29/14	06/02/14	LM	SW846 6010C [3]	SW846 3050B [5]
Arsenic [a]	1.4	1.1	0.22	mg/kg	2	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [5]
Beryllium [a]	0.48 B	1.1	0.11	mg/kg	4	05/29/14	06/02/14	LM	SW846 6010C [3]	SW846 3050B [5]
Cadmium [a]	0.11 U	0.90	0.11	mg/kg	4	05/29/14	06/02/14	LM	SW846 6010C [3]	SW846 3050B [5]
Chromium [a]	56.7	1.1	0.11	mg/kg	2	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [5]
Copper [a]	77.7	5.6	0.22	mg/kg	4	05/29/14	06/02/14	LM	SW846 6010C [3]	SW846 3050B [5]
Lead [a]	3.1 B	4.5	0.36	mg/kg	4	05/29/14	06/02/14	LM	SW846 6010C [3]	SW846 3050B [5]
Manganese [a]	552	1.7	0.056	mg/kg	2	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.034 B	0.048	0.0048	mg/kg	1	05/28/14	05/28/14	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel [a]	20.2	4.5	0.056	mg/kg	2	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [5]
Selenium [a]	2.1 B	2.2	0.34	mg/kg	2	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [5]
Silver [a]	0.64 B	1.1	0.073	mg/kg	2	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [5]
Thallium [a]	0.34 U	2.2	0.34	mg/kg	4	05/29/14	06/02/14	LM	SW846 6010C [3]	SW846 3050B [5]
Zinc [a]	54.4	4.5	0.67	mg/kg	4	05/29/14	06/02/14	LM	SW846 6010C [3]	SW846 3050B [5]

(1) Instrument QC Batch: MA11626
(2) Instrument QC Batch: MA11633
(3) Instrument QC Batch: MA11636
(4) Prep QC Batch: MP27311
(5) Prep QC Batch: MP27317

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BG-6 @ 3'		
Lab Sample ID:	FA15202-6	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	85.1
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.41 U	4.1	0.41	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.3 B	2.0	0.41	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.18 B	1.0	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [a]	0.10 U	0.81	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [a]	78.5	2.0	0.20	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	58.3	5.1	0.20	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [a]	4.1	4.1	0.32	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	419	3.0	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.012 B	0.045	0.0045	mg/kg	1	05/28/14	05/28/14	JL	SW846 7471B [1]	SW846 7471B [3]
Nickel [a]	24.3	8.1	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [a]	2.0 B	4.1	0.61	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.67 B	2.0	0.13	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	0.30 U	2.0	0.30	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Zinc [a]	35.3	4.1	0.61	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11626
(2) Instrument QC Batch: MA11633
(3) Prep QC Batch: MP27311
(4) Prep QC Batch: MP27317

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	BG-7 @ 3'		
Lab Sample ID:	FA15202-7	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	83.6
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.41 U	4.1	0.41	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	0.93 B	2.1	0.41	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.18 B	1.0	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [a]	0.10 U	0.82	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [a]	82.0	2.1	0.21	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	61.2	5.2	0.21	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [a]	4.9	4.1	0.33	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	521	3.1	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.023 B	0.046	0.0046	mg/kg	1	05/28/14	05/28/14	JL	SW846 7471B [1]	SW846 7471B [3]
Nickel [a]	27.9	8.2	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [a]	2.6 B	4.1	0.62	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.65 B	2.1	0.13	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	0.31 U	2.1	0.31	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]
Zinc [a]	45.3	4.1	0.62	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11626
(2) Instrument QC Batch: MA11633
(3) Prep QC Batch: MP27311
(4) Prep QC Batch: MP27317

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	WP-49 @ 3'		
Lab Sample ID:	FA15202-8	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
		Percent Solids:	82.0
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.41 U	4.1	0.41	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium [a]	0.10 U	1.0	0.10	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [3]
Copper [a]	74.1	5.1	0.20	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	343	0.76	0.025	mg/kg	1	05/29/14	05/29/14	LM	SW846 6010C [1]	SW846 3050B [3]
Nickel	23.6	2.0	0.025	mg/kg	1	05/29/14	05/29/14	LM	SW846 6010C [1]	SW846 3050B [3]
Thallium [a]	0.59 B	2.0	0.30	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	127	1.0	0.15	mg/kg	1	05/29/14	05/29/14	LM	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA11630
(2) Instrument QC Batch: MA11633
(3) Prep QC Batch: MP27317

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	WP-50 @ 4'		
Lab Sample ID:	FA15202-9	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	89.1
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064546.D	1	05/22/14	AH	n/a	n/a	VF2130
Run #2							

	Initial Weight
Run #1	4.83 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.8	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		75-126%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-50 @ 4'		
Lab Sample ID:	FA15202-9	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	89.1
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0085583.D	1	05/22/14	EP	n/a	n/a	VH3255
Run #2							

	Initial Weight
Run #1	4.49 g
Run #2	

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	62	19	ug/kg	
71-43-2	Benzene	ND	6.2	1.2	ug/kg	
108-86-1	Bromobenzene	ND	6.2	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	1.2	ug/kg	
75-25-2	Bromoform	ND	6.2	1.3	ug/kg	
104-51-8	n-Butylbenzene	ND	6.2	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.2	1.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.2	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	1.2	ug/kg	
75-00-3	Chloroethane	ND	6.2	2.8	ug/kg	
67-66-3	Chloroform	ND	6.2	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.2	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.2	1.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.2	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.2	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.2	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.2	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.2	1.2	ug/kg	
108-20-3	Di-Isopropyl ether	ND	6.2	1.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.2	1.8	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.2	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	1.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	6.2	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.2	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.2	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.2	1.7	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-50 @ 4'		
Lab Sample ID:	FA15202-9	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	89.1
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	1.2	ug/kg	
64-17-5	Ethyl alcohol	ND	500	83	ug/kg	
100-41-4	Ethylbenzene	ND	6.2	1.2	ug/kg	
591-78-6	2-Hexanone	ND	31	6.1	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.2	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	31	6.2	ug/kg	
74-83-9	Methyl bromide	ND	6.2	2.3	ug/kg	
74-87-3	Methyl chloride	ND	6.2	2.5	ug/kg	
75-09-2	Methylene chloride	ND	12	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	31	9.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.2	1.2	ug/kg	
91-20-3	Naphthalene	ND	6.2	2.5	ug/kg	
103-65-1	n-Propylbenzene	ND	6.2	1.2	ug/kg	
100-42-5	Styrene	ND	6.2	1.2	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.2	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.2	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.2	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.2	1.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.2	1.6	ug/kg	
108-88-3	Toluene	ND	6.2	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	6.2	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	1.2	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	1.3	ug/kg	
108-05-4	Vinyl Acetate	ND	31	10	ug/kg	
1330-20-7	Xylene (total)	ND	19	3.3	ug/kg	
	m,p-Xylene	ND	12	2.0	ug/kg	
95-47-6	o-Xylene	ND	6.2	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		75-124%
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	93%		71-133%
17060-07-0	1,2-Dichloroethane-D4	95%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-50 @ 4'		
Lab Sample ID:	FA15202-9	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	89.1
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-50 @ 12.5'		
Lab Sample ID:	FA15202-10	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	75.6
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064547.D	1	05/22/14	AH	n/a	n/a	VF2130
Run #2							

	Initial Weight
Run #1	5.67 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.8	2.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		75-126%
17060-07-0	1,2-Dichloroethane-D4	113%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-50 @ 12.5'		
Lab Sample ID:	FA15202-10	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	75.6
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0085584.D	1	05/22/14	EP	n/a	n/a	VH3255
Run #2	H0085603.D	1	05/23/14	EP	n/a	n/a	VH3256

	Initial Weight	Methanol Aliquot
Run #1	5.23 g	
Run #2	5.05 g	100 ul

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	63	19	ug/kg	
71-43-2	Benzene	ND	6.3	1.3	ug/kg	
108-86-1	Bromobenzene	ND	6.3	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	1.3	ug/kg	
75-25-2	Bromoform	ND	6.3	1.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.3	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.3	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	1.3	ug/kg	
75-00-3	Chloroethane	ND	6.3	2.9	ug/kg	
67-66-3	Chloroform	ND	6.3	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.3	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.3	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.3	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.3	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.3	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.3	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.3	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.3	1.3	ug/kg	
108-20-3	Di-Isopropyl ether	ND	6.3	1.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.3	1.8	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	1.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.3	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	1.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	6.3	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.3	1.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.3	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.3	1.7	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-50 @ 12.5'		
Lab Sample ID:	FA15202-10	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	75.6
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	1.3	ug/kg	
64-17-5	Ethyl alcohol	ND	510	84	ug/kg	
100-41-4	Ethylbenzene	ND	6.3	1.3	ug/kg	
591-78-6	2-Hexanone	ND	32	6.2	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.3	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	32	6.3	ug/kg	
74-83-9	Methyl bromide	ND	6.3	2.4	ug/kg	
74-87-3	Methyl chloride	ND	6.3	2.5	ug/kg	
75-09-2	Methylene chloride	ND	13	5.1	ug/kg	
78-93-3	Methyl ethyl ketone	ND	32	9.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.3	1.3	ug/kg	
91-20-3	Naphthalene	ND	6.3	2.5	ug/kg	
103-65-1	n-Propylbenzene	ND	6.3	1.3	ug/kg	
100-42-5	Styrene	ND	6.3	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.3	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.3	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.3	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.3	2.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.3	1.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.3	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.3	1.6	ug/kg	
108-88-3	Toluene	ND	6.3	1.3	ug/kg	
79-01-6	Trichloroethylene	288 [a]	410	83	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	6.3	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	1.3	ug/kg	
108-05-4	Vinyl Acetate	ND	32	10	ug/kg	
1330-20-7	Xylene (total)	ND	19	3.4	ug/kg	
	m,p-Xylene	ND	13	2.0	ug/kg	
95-47-6	o-Xylene	ND	6.3	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%	78%	75-124%
2037-26-5	Toluene-D8	94%	94%	75-126%
460-00-4	4-Bromofluorobenzene	90%	91%	71-133%
17060-07-0	1,2-Dichloroethane-D4	100%	87%	72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-50 @ 12.5'		
Lab Sample ID:	FA15202-10	**Date Sampled:**	05/21/14
Matrix:	SO - Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	75.6
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1632-70-8	Undecane, 5-methyl-	16.24	140	ug/kg	JN
17312-54-8	Decane, 3,7-dimethyl-	16.37	120	ug/kg	JN
1000152-47-3	trans-Decalin, 2-methyl-	16.70	100	ug/kg	JN
2958-76-1	Naphthalene, decahydro-2-methyl-	16.93	140	ug/kg	JN
17301-23-4	Undecane, 2,6-dimethyl-	17.30	420	ug/kg	JN
4291-79-6	Cyclohexane, 1-methyl-2-propyl-	17.42	110	ug/kg	JN
17301-33-6	Undecane, 4,8-dimethyl-	17.76	120	ug/kg	JN
17312-76-4	Undecane, 6,6-dimethyl-	17.93	310	ug/kg	JN
1618-22-0	Naphthalene, decahydro-2,6-dimethy	18.14	95	ug/kg	JN
4292-92-6	Cyclohexane, pentyl-	18.86	91	ug/kg	JN
	Total TIC, Volatile		1646	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-1		
Lab Sample ID:	FA15202-11	**Date Sampled:**	05/21/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/22/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064545.D	1	05/22/14	AH	n/a	n/a	VF2130
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		75-126%
17060-07-0	1,2-Dichloroethane-D4	112%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-1		
Lab Sample ID:	FA15202-11	**Date Sampled:**	05/21/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0085585.D	1	05/22/14	EP	n/a	n/a	VH3255
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-1		
Lab Sample ID:	FA15202-11	**Date Sampled:**	05/21/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
64-17-5	Ethyl alcohol	ND	400	67	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.7	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	81%		75-124%
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%
17060-07-0	1,2-Dichloroethane-D4	89%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-1		
Lab Sample ID:	FA15202-11	**Date Sampled:**	05/21/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA List for NC, May 2012

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA15202 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: ERM
Address: 1130 Situs Ct. Suite 250
City: Raleigh State: NC Zip: 27606
Project Contact: E-mail: Lane.Dorman@erm.com
Phone#: 919-233-4501
Sampler(s) Name(s) (Printed): G. Kamellis

Project Information

Project Name: ECI Whitsett
Street: 1239 Rock Creek Dairy Rd
City: Whitsett State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Total Sb, Be, Cu, Mn, Ni, Tl, Zn	HSL metals	VOC 8260 + 10 TICs	1,4 Dioxane 8260 SIM
1	BG-1@ 5.5	5/21/14	1030	GK	SO	1		X								X		
2	BG-2@ 3'		1045															
3	BG-3 @3'		1100															
4	BG-4 @ 4'		1115															
5	BG-5 @ 2'		1130															
6	BG-6 @3'		1145															
7	BG-7 @3'		1200															
8	WP-49 @ 3'		1400												X			
9	WP-50 @ 4'		1545			4		1					1	2			X	X
10	WP-50 @ 12.5'		1550			4		1					1	2			X	X
11	Trip Blank-1		–	–	–	2											X	X

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

RALEIGH, NC

SVC CENTER

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	5/21/14 1650	2 Brent Pardy	3 Brent Pardy	5/21/14 1740	4 FX
Relinquished by: 5 FX	5-22-14	Received By: 6 [signature] (Alex) 10:20	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.6

FA15202: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15202 CLIENT: ERM PROJECT: EC1

DATE/TIME RECEIVED: 5-22-14 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7700 5844 0500

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 2+TB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 5-22-14 REVIEWER SIGNATURE/DATE 05-22-14

RS 04/14 receipt confirmation 041514.xls

4.1

4

FA15202: Chain of Custody

Page 2 of 3

From: (919) 208-7171
Brent Rader
Accutest Labs Southeast
6308 - C Angus Drive

Raleigh, NC 27617

Origin ID: RZZA

FedEx Express

J14101402070326

Ship Date: 21MAY14
ActWgt: 15.0 LB
CAD: 9855222/INET3490

Delivery Address Bar Code

SHIP TO: (407) 425-6700
BILL SENDER

Sample Receiving
Accutest SE
4405 VINELAND RD.
STE. C15
ORLANDO, FL 32811

Ref #
Invoice #
PO #
Dept #

1043

TRK# 0201 7700 5844 0500

THU - 22 MAY AA
STANDARD OVERNIGHT

MASTER

XH TIXA

32811
FL-US
MCO

FA15202: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2130-MB	F0064538.D	1	05/22/14	AH	n/a	n/a	VF2130

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	93%	75-126%
17060-07-0	1,2-Dichloroethane-D4	112%	72-135%

Method Blank Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3255-MB	H0085568.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
64-17-5	Ethyl alcohol	ND	400	67	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	

Method Blank Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3255-MB	H0085568.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.7	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	82%	75-124%
2037-26-5	Toluene-D8	93%	75-126%
460-00-4	4-Bromofluorobenzene	92%	71-133%

Method Blank Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3255-MB	H0085568.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	93%	72-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/kg	

(a) No TICs detected.

Method Blank Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3256-MB	H0085599.D	1	05/23/14	EP	n/a	n/a	VH3256

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-10

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	82%	75-124%
2037-26-5	Toluene-D8	93%	75-126%
460-00-4	4-Bromofluorobenzene	92%	71-133%
17060-07-0	1,2-Dichloroethane-D4	91%	72-135%

Blank Spike Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2130-BS	F0064537.D	1	05/22/14	AH	n/a	n/a	VF2130

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
123-91-1	1,4-Dioxane	50	48.1	96	56-152

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	101%	75-126%
17060-07-0	1,2-Dichloroethane-D4	109%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3255-BS	H0085567.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	286	114	61-152
71-43-2	Benzene	50	55.3	111	76-126
108-86-1	Bromobenzene	50	50.9	102	76-122
74-97-5	Bromochloromethane	50	52.1	104	77-120
75-27-4	Bromodichloromethane	50	54.0	108	74-130
75-25-2	Bromoform	50	42.9	86	76-127
104-51-8	n-Butylbenzene	50	53.3	107	71-128
135-98-8	sec-Butylbenzene	50	61.1	122	79-135
98-06-6	tert-Butylbenzene	50	58.0	116	77-133
108-90-7	Chlorobenzene	50	55.4	111	81-129
75-00-3	Chloroethane	50	57.1	114	68-133
67-66-3	Chloroform	50	53.7	107	72-123
95-49-8	o-Chlorotoluene	50	56.7	113	77-129
106-43-4	p-Chlorotoluene	50	58.9	118	80-134
56-23-5	Carbon tetrachloride	50	49.4	99	78-133
75-34-3	1,1-Dichloroethane	50	55.4	111	73-125
75-35-4	1,1-Dichloroethylene	50	54.2	108	81-136
563-58-6	1,1-Dichloropropene	50	57.0	114	75-130
106-93-4	1,2-Dibromoethane	50	52.4	105	77-126
107-06-2	1,2-Dichloroethane	50	55.2	110	74-128
78-87-5	1,2-Dichloropropane	50	58.4	117	74-125
142-28-9	1,3-Dichloropropane	50	53.7	107	76-122
108-20-3	Di-Isopropyl ether	50	59.9	120	75-122
594-20-7	2,2-Dichloropropane	50	60.6	121	77-133
124-48-1	Dibromochloromethane	50	50.8	102	76-127
75-71-8	Dichlorodifluoromethane	50	58.7	117	68-168
156-59-2	cis-1,2-Dichloroethylene	50	52.9	106	74-126
10061-01-5	cis-1,3-Dichloropropene	50	54.6	109	80-123
541-73-1	m-Dichlorobenzene	50	56.8	114	81-129
95-50-1	o-Dichlorobenzene	50	54.4	109	80-129
106-46-7	p-Dichlorobenzene	50	51.4	103	76-130
156-60-5	trans-1,2-Dichloroethylene	50	53.6	107	70-127
10061-02-6	trans-1,3-Dichloropropene	50	55.9	112	75-131
64-17-5	Ethyl alcohol	1000	1020	102	53-154
100-41-4	Ethylbenzene	50	53.2	106	77-123
591-78-6	2-Hexanone	250	274	110	72-133

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3255-BS	H0085567.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
98-82-8	Isopropylbenzene	50	59.0	118	80-136
99-87-6	p-Isopropyltoluene	50	57.7	115	77-131
108-10-1	4-Methyl-2-pentanone	250	276	110	76-132
74-83-9	Methyl bromide	50	53.6	107	65-139
74-87-3	Methyl chloride	50	59.3	119	71-144
75-09-2	Methylene chloride	50	57.3	115	74-137
78-93-3	Methyl ethyl ketone	250	279	112	75-137
1634-04-4	Methyl Tert Butyl Ether	50	55.6	111	77-120
91-20-3	Naphthalene	50	49.3	99	79-129
103-65-1	n-Propylbenzene	50	59.1	118	80-135
100-42-5	Styrene	50	55.7	111	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	51.9	104	78-126
71-55-6	1,1,1-Trichloroethane	50	54.7	109	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	54.7	109	71-126
79-00-5	1,1,2-Trichloroethane	50	52.4	105	74-124
87-61-6	1,2,3-Trichlorobenzene	50	47.6	95	77-128
96-18-4	1,2,3-Trichloropropane	50	51.3	103	74-127
120-82-1	1,2,4-Trichlorobenzene	50	48.3	97	78-130
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	74-123
108-67-8	1,3,5-Trimethylbenzene	50	53.8	108	73-122
127-18-4	Tetrachloroethylene	50	49.2	98	79-130
108-88-3	Toluene	50	52.6	105	76-124
79-01-6	Trichloroethylene	50	53.6	107	75-128
75-69-4	Trichlorofluoromethane	50	53.8	108	73-145
75-01-4	Vinyl chloride	50	57.4	115	76-141
108-05-4	Vinyl Acetate	250	224	90	48-164
1330-20-7	Xylene (total)	150	170	113	80-129
	m,p-Xylene	100	112	112	80-128
95-47-6	o-Xylene	50	58.2	116	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	75-124%
2037-26-5	Toluene-D8	93%	75-126%
460-00-4	4-Bromofluorobenzene	93%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3255-BS	H0085567.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	90%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH3256-BS	H0085598.D	1	05/23/14	EP	n/a	n/a	VH3256

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
79-01-6	Trichloroethylene	50	54.7	109	75-128

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	75-124%
2037-26-5	Toluene-D8	95%	75-126%
460-00-4	4-Bromofluorobenzene	90%	71-133%
17060-07-0	1,2-Dichloroethane-D4	88%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14929-11MS	F0064542.D	1	05/22/14	AH	n/a	n/a	VF2130
FA14929-11MSD	F0064543.D	1	05/22/14	AH	n/a	n/a	VF2130
FA14929-11	F0064539.D	1	05/22/14	AH	n/a	n/a	VF2130

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	FA14929-11 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		62.6	63.1	101	64.2	59.1	92	7	56-152/37

CAS No.	Surrogate Recoveries	MS	MSD	FA14929-11	Limits
2037-26-5	Toluene-D8	102%	96%	96%	75-126%
17060-07-0	1,2-Dichloroethane-D4	107%	103%	104%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15152-20MS	H0085575.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20MSD	H0085576.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20	H0085574.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20	H0085582.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	FA15152-20 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	44000 U [a]		109000	91800	84	109000	92200	85	0	61-152/27
71-43-2	Benzene	3090 [a]	J	21800	26200	106	21800	26300	107	0	76-126/26
108-86-1	Bromobenzene	4400 U [a]		21800	21200	97	21800	20600	95	3	76-122/32
74-97-5	Bromochloromethane	4400 U [a]		21800	21100	97	21800	20900	96	1	77-120/24
75-27-4	Bromodichloromethane	4400 U [a]		21800	21100	97	21800	21700	100	3	74-130/25
75-25-2	Bromoform	4400 U [a]		21800	15500	71*	21800	16300	75*	5	76-127/26
104-51-8	n-Butylbenzene	4900 [a]		21800	27000	102	21800	26500	99	2	71-128/35
135-98-8	sec-Butylbenzene	2250 [a]	J	21800	27000	114	21800	26500	111	2	79-135/34
98-06-6	tert-Butylbenzene	4400 U [a]		21800	23300	107	21800	23000	106	1	77-133/34
108-90-7	Chlorobenzene	4400 U [a]		21800	21500	99	21800	21800	100	1	81-129/29
75-00-3	Chloroethane	4400 U [a]		21800	22000	101	21800	22200	102	1	68-133/29
67-66-3	Chloroform	4400 U [a]		21800	21100	97	21800	21300	98	1	72-123/26
95-49-8	o-Chlorotoluene	4400 U [a]		21800	27600	127	21800	26900	124	3	77-129/33
106-43-4	p-Chlorotoluene	4400 U [a]		21800	23200	107	21800	23000	106	1	80-134/33
56-23-5	Carbon tetrachloride	4400 U [a]		21800	18800	86	21800	19300	89	3	78-133/29
75-34-3	1,1-Dichloroethane	4400 U [a]		21800	21800	100	21800	22200	102	2	73-125/27
75-35-4	1,1-Dichloroethylene	4400 U [a]		21800	21400	98	21800	21300	98	0	81-136/28
563-58-6	1,1-Dichloropropene	4400 U [a]		21800	22000	101	21800	21900	101	0	75-130/28
106-93-4	1,2-Dibromoethane	4400 U [a]		21800	20100	92	21800	20700	95	3	77-126/26
107-06-2	1,2-Dichloroethane	4400 U [a]		21800	21600	99	21800	21400	98	1	74-128/23
78-87-5	1,2-Dichloropropane	4400 U [a]		21800	23800	109	21800	23400	107	2	74-125/25
142-28-9	1,3-Dichloropropane	4400 U [a]		21800	20800	96	21800	21500	99	3	76-122/26
108-20-3	Di-Isopropyl ether	4400 U [a]		21800	23600	108	21800	23600	108	0	75-122/25
594-20-7	2,2-Dichloropropane	4400 U [a]		21800	21400	98	21800	21800	100	2	77-133/28
124-48-1	Dibromochloromethane	4400 U [a]		21800	18900	87	21800	19900	91	5	76-127/27
75-71-8	Dichlorodifluoromethane	4400 U [a]		21800	22500	103	21800	22000	101	2	68-168/29
156-59-2	cis-1,2-Dichloroethylene	4400 U [a]		21800	21400	98	21800	21300	98	0	74-126/26
10061-01-5	cis-1,3-Dichloropropene	4400 U [a]		21800	20000	92	21800	20700	95	3	80-123/26
541-73-1	m-Dichlorobenzene	4400 U [a]		21800	22700	104	21800	22300	102	2	81-129/33
95-50-1	o-Dichlorobenzene	4400 U [a]		21800	21800	100	21800	21200	97	3	80-129/32
106-46-7	p-Dichlorobenzene	4400 U [a]		21800	20700	95	21800	20100	92	3	76-130/32
156-60-5	trans-1,2-Dichloroethylene	4400 U [a]		21800	21400	98	21800	21300	98	0	70-127/27
10061-02-6	trans-1,3-Dichloropropene	4400 U [a]		21800	20700	95	21800	21700	100	5	75-131/28
64-17-5	Ethyl alcohol	350000 U [a]		435000	428000	98	435000	409000	94	5	53-154/42
100-41-4	Ethylbenzene	48800		21800	77000	130* [b]	21800	78900	138* [b]	2	77-123/31
591-78-6	2-Hexanone	22000 U [a]		109000	98800	91	109000	101000	93	2	72-133/26

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15152-20MS	H0085575.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20MSD	H0085576.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20	H0085574.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20	H0085582.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Compound	FA15152-20 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
98-82-8	Isopropylbenzene	5630 [a]		21800	30600	115	21800	31000	117	1	80-136/32
99-87-6	p-Isopropyltoluene	4400 U [a]		21800	24300	112	21800	23500	108	3	77-131/34
108-10-1	4-Methyl-2-pentanone	22000 U [a]		109000	95600	88	109000	97300	89	2	76-132/26
74-83-9	Methyl bromide	4400 U [a]		21800	19300	89	21800	20700	95	7	65-139/31
74-87-3	Methyl chloride	4400 U [a]		21800	22900	105	21800	22800	105	0	71-144/27
75-09-2	Methylene chloride	8700 U [a]		21800	22100	102	21800	22200	102	0	74-137/28
78-93-3	Methyl ethyl ketone	22000 U [a]		109000	99800	92	109000	102000	94	2	75-137/25
1634-04-4	Methyl Tert Butyl Ether	4400 U [a]		21800	21600	99	21800	21900	101	1	77-120/24
91-20-3	Naphthalene	13800		21800	35200	98	21800	36300	103	3	79-129/33
103-65-1	n-Propylbenzene	24700		21800	53600	133	21800	52900	130	1	80-135/33
100-42-5	Styrene	4400 U [a]		21800	22600	104	21800	23100	106	2	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	4400 U [a]		21800	20800	96	21800	21100	97	1	78-126/27
71-55-6	1,1,1-Trichloroethane	4400 U [a]		21800	21200	97	21800	21300	98	0	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	4400 U [a]		21800	19800	91	21800	20400	94	3	71-126/30
79-00-5	1,1,2-Trichloroethane	4400 U [a]		21800	27600	127*	21800	28600	131*	4	74-124/28
87-61-6	1,2,3-Trichlorobenzene	4400 U [a]		21800	18500	85	21800	18900	87	2	77-128/35
96-18-4	1,2,3-Trichloropropane	4400 U [a]		21800	20100	92	21800	20400	94	1	74-127/27
120-82-1	1,2,4-Trichlorobenzene	4400 U [a]		21800	19400	89	21800	19200	88	1	78-130/34
95-63-6	1,2,4-Trimethylbenzene	131000 [a]		21800	173000	193* [b]	21800	170000	179* [b]	2	74-123/34
108-67-8	1,3,5-Trimethylbenzene	39300		21800	69500	139*	21800	68700	135*	1	73-122/33
127-18-4	Tetrachloroethylene	4400 U [a]		21800	21000	96	21800	21300	98	1	79-130/31
108-88-3	Toluene	70700		21800	103000	148* [b]	21800	105000	158* [b]	2	76-124/30
79-01-6	Trichloroethylene	4400 U [a]		21800	21800	100	21800	21500	99	1	75-128/27
75-69-4	Trichlorofluoromethane	4400 U [a]		21800	20800	96	21800	20700	95	0	73-145/31
75-01-4	Vinyl chloride	4400 U [a]		21800	22000	101	21800	21600	99	2	76-141/27
108-05-4	Vinyl Acetate	22000 U [a]		109000	111000	102	109000	115000	106	4	48-164/37
1330-20-7	Xylene (total)	270000 [a]		65300	329000	90	65300	333000	96	1	80-129/30
	m,p-Xylene	192000 [a]		43500	211000	44* [b]	43500	213000	48* [b]	1	80-128/30
95-47-6	o-Xylene	82700		21800	118000	162* [b]	21800	121000	176* [b]	3	80-132/30

CAS No.	Surrogate Recoveries	MS	MSD	FA15152-20	FA15152-20	Limits
1868-53-7	Dibromofluoromethane	87%	86%	79%	78%	75-124%
2037-26-5	Toluene-D8	95%	96%	95%	96%	75-126%
460-00-4	4-Bromofluorobenzene	94%	94%	92%	94%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15152-20MS	H0085575.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20MSD	H0085576.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20	H0085574.D	1	05/22/14	EP	n/a	n/a	VH3255
FA15152-20	H0085582.D	1	05/22/14	EP	n/a	n/a	VH3255

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-9, FA15202-10, FA15202-11

CAS No.	Surrogate Recoveries	MS	MSD	FA15152-20	FA15152-20	Limits
17060-07-0	1,2-Dichloroethane-D4	83%	83%	94%	87%	72-135%

(a) Result is from Run #2.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15202
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15243-1MS	H0085608.D	1	05/23/14	EP	n/a	n/a	VH3256
FA15243-1MSD	H0085609.D	1	05/23/14	EP	n/a	n/a	VH3256
FA15243-1	H0085607.D	1	05/23/14	EP	n/a	n/a	VH3256

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15202-10

CAS No.	Compound	FA15243-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
79-01-6	Trichloroethylene	ND		61.9	51.3	83	61.6	58.4	95	13	75-128/27

CAS No.	Surrogate Recoveries	MS	MSD	FA15243-1	Limits
1868-53-7	Dibromofluoromethane	88%	86%	78%	75-124%
2037-26-5	Toluene-D8	95%	99%	98%	75-126%
460-00-4	4-Bromofluorobenzene	94%	104%	105%	71-133%
17060-07-0	1,2-Dichloroethane-D4	89%	86%	89%	72-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27310
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1.6		
Antimony	1.0	.1	.1	-0.010	<1.0
Arsenic	0.50	.1	.1	-0.015	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.025	.025	0.0	<0.25
Cadmium	0.20	.025	.025	-0.0050	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05	0.010	<0.50
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.05	0.010	<1.3
Iron	15	.85	1.3		
Lead	1.0	.055	.08	-0.020	<1.0
Magnesium	250	2.5	2.5		
Manganese	0.75	.025	.025	0.010	<0.75
Molybdenum	2.5	.025	.03		
Nickel	2.0	.025	.025	-0.010	<2.0
Potassium	500	10	10		
Selenium	1.0	.12	.15	0.050	<1.0
Silver	0.50	.033	.033	0.0	<0.50
Sodium	500	25	25		
Strontium	0.50	.02	.025		
Thallium	0.50	.075	.075	0.0	<0.50
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.29	<1.0

Associated samples MP27310: FA15202-1, FA15202-2, FA15202-3, FA15202-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27310
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:	05/28/14							05/28/14	
Metal	FA15050-24 Original	DUP	RPD	QC Limits	FA15050-24 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	0.0	0.0	NC	0-20	0.0	19.9	28.5	69.8N(c)	80-120
Arsenic	2.6	2.1	21.3 (a)	0-20	2.6	113	114	96.8	80-120
Barium	anr								
Beryllium	0.0	0.0	NC	0-20	0.0	3.0	2.85	105.2	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	2.9	2.85	101.7	80-120
Calcium	anr								
Chromium	1.4	1.9	30.3 (a)	0-20	1.4	13.5	11.4	106.1	80-120
Cobalt	anr								
Copper	0.37	0.32	14.5	0-20	0.37	15.5	14.3	106.1	80-120
Iron	anr								
Lead	0.78	2.5	104.9*(b	0-20	0.78	29.6	28.5	101.1	80-120
Magnesium	anr								
Manganese	0.17	0.25	38.1 (a)	0-20	0.17	30.2	28.5	105.3	80-120
Molybdenum	anr								
Nickel	0.18	0.21	15.4	0-20	0.18	29.9	28.5	104.2	80-120
Potassium	anr								
Selenium	0.0	0.15	200.0(a)	0-20	0.0	111	114	97.3	80-120
Silver	0.058	0.0	200.0(a)	0-20	0.058	2.8	2.85	96.2	80-120
Sodium	anr								
Strontium	anr								
Thallium	0.0	0.0	NC	0-20	0.0	115	114	100.8	80-120
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	0.0	0.0	NC	0-20	0.0	28.7	28.5	100.6	80-120

Associated samples MP27310: FA15202-1, FA15202-2, FA15202-3, FA15202-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) High RPD due to possible sample non-homogeneity.
(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27310 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/28/14

Metal	FA15050-24 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	0.0	16.7	26.7	62.5N(a)	17.5	20
Arsenic	2.6	106	107	96.8	6.4	20
Barium	anr					
Beryllium	0.0	2.8	2.67	104.8	6.9	20
Cadmium	0.0	2.6	2.67	97.3	10.9	20
Calcium	anr					
Chromium	1.4	12.7	10.7	105.7	6.1	20
Cobalt	anr					
Copper	0.37	14.3	13.4	104.3	8.1	20
Iron	anr					
Lead	0.78	27.8	26.7	101.1	6.3	20
Magnesium	anr					
Manganese	0.17	27.8	26.7	103.4	8.3	20
Molybdenum	anr					
Nickel	0.18	27.4	26.7	101.9	8.7	20
Potassium	anr					
Selenium	0.0	102	107	95.4	8.5	20
Silver	0.058	2.6	2.67	95.1	7.4	20
Sodium	anr					
Strontium	anr					
Thallium	0.0	107	107	100.1	7.2	20
Tin	anr					
Titanium	anr					
Vanadium	anr					
Zinc	0.0	26.4	26.7	98.8	8.3	20

Associated samples MP27310: FA15202-1, FA15202-2, FA15202-3, FA15202-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27310
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony	24.7	25	98.8	80-120
Arsenic	99.9	100	99.9	80-120
Barium	anr			
Beryllium	2.6	2.5	104.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium	anr			
Chromium	10.5	10	105.0	80-120
Cobalt	anr			
Copper	13.3	12.5	106.4	80-120
Iron	anr			
Lead	24.9	25	99.6	80-120
Magnesium	anr			
Manganese	26.5	25	106.0	80-120
Molybdenum	anr			
Nickel	26.2	25	104.8	80-120
Potassium	anr			
Selenium	99.1	100	99.1	80-120
Silver	2.4	2.5	96.0	80-120
Sodium	anr			
Strontium	anr			
Thallium	102	100	102.0	80-120
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	25.5	25	102.0	80-120

Associated samples MP27310: FA15202-1, FA15202-2, FA15202-3, FA15202-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27310
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	FA15050-24 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	0.00	0.00	NC	0-10
Arsenic	44.4	44.6	0.5	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	24.1	23.5	2.5	0-10
Cobalt	anr			
Copper	6.40	8.00	25.0 (a)	0-10
Iron	anr			
Lead	13.6	15.1	11.0 (a)	0-10
Magnesium	anr			
Manganese	2.90	2.90	0.0	0-10
Molybdenum	anr			
Nickel	3.20	0.00	100.0(a)	0-10
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	1.00	0.00	100.0(a)	0-10
Sodium	anr			
Strontium	anr			
Thallium	0.00	0.00	NC	0-10
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	0.00	0.00	NC	0-10

Associated samples MP27310: FA15202-1, FA15202-2, FA15202-3, FA15202-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27310
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	Sample ml	Final ml	FA15050-24 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			99.8	0.2	5	100	99.8	80-120
Arsenic	9.8	10	44.4	43.512	145.1	0.2	5	100	101.6	80-120
Barium										
Beryllium	9.8	10			52.8	0.2	2.5	50	105.6	80-120
Cadmium	9.8	10			52.1	0.2	2.5	50	104.2	80-120
Calcium										
Chromium	9.8	10	24.1	23.618	76.7	0.2	2.5	50	106.2	80-120
Cobalt										
Copper	9.8	10	6.4	6.272	113.8	0.2	5	100	107.5	80-120
Iron										
Lead	9.8	10	13.6	13.328	65.5	0.2	2.5	50	104.3	80-120
Magnesium										
Manganese	9.8	10	2.9	2.842	57.1	0.2	2.5	50	108.5	80-120
Molybdenum										
Nickel	9.8	10	3.2	3.136	109.8	0.2	5	100	106.7	80-120
Potassium										
Selenium	9.8	10			99.3	0.2	5	100	99.3	80-120
Silver	9.8	10	1	.98	51.2	0.2	2.5	50	100.4	80-120
Sodium										
Strontium										
Thallium	9.8	10			100.2	0.2	5	100	100.2	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10			254.3	0.2	12.5	250	101.7	80-120

Associated samples MP27310: FA15202-1, FA15202-2, FA15202-3, FA15202-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27311
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/28/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.042	.0025	.0042	-0.0021	<0.042

Associated samples MP27311: FA15202-1, FA15202-2, FA15202-3, FA15202-4, FA15202-5, FA15202-6, FA15202-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27311
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/28/14 05/28/14

Metal	FA15243-1 Original	DUP	RPD	QC Limits	FA15243-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.036	0.037	2.7	0-20	0.036	0.29	0.234	108.4	80-120

Associated samples MP27311: FA15202-1, FA15202-2, FA15202-3, FA15202-4, FA15202-5, FA15202-6, FA15202-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27311 | Methods: SW846 7471B
Matrix Type: SOLID | Units: mg/kg

Prep Date: 05/28/14

Metal	FA15243-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.036	0.30	0.231	114.4	3.4	20

Associated samples MP27311: FA15202-1, FA15202-2, FA15202-3, FA15202-4, FA15202-5, FA15202-6, FA15202-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27311
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/28/14

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.24	0.25	96.0	80-120

Associated samples MP27311: FA15202-1, FA15202-2, FA15202-3, FA15202-4, FA15202-5, FA15202-6, FA15202-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27311
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 05/28/14

Metal	FA15243-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.459	0.00	100.0(a)	0-10

Associated samples MP27311: FA15202-1, FA15202-2, FA15202-3, FA15202-4, FA15202-5, FA15202-6, FA15202-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1.6		
Antimony	1.0	.1	.1	0.055	<1.0
Arsenic	0.50	.1	.1	-0.090	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.025	.025	-0.010	<0.25
Cadmium	0.20	.025	.025	-0.015	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05	0.31	* (a)
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.05	0.030	<1.3
Iron	15	.85	1.3		
Lead	1.0	.055	.08	-0.0050	<1.0
Magnesium	250	2.5	2.5		
Manganese	0.75	.025	.025	0.040	<0.75
Molybdenum	2.5	.025	.03		
Nickel	2.0	.025	.025	0.15	<2.0
Potassium	500	10	10		
Selenium	1.0	.12	.15	0.12	<1.0
Silver	0.50	.033	.033	-0.0050	<0.50
Sodium	500	25	25		
Strontium	0.50	.02	.025		
Thallium	0.50	.075	.075	-0.040	<0.50
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.19	<1.0

Associated samples MP27317: FA15202-5, FA15202-6, FA15202-7, FA15202-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) All sample results >10x method blank concentration.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14 05/29/14

Metal	FA15307-1 Original	DUP	RPD	QC Limits	FA15307-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum										
Antimony	0.099	0.0	200.0(a)	0-20	0.099	18.5	25.6	71.9N(b)	8.5	20
Arsenic	1.3	1.4	7.4	0-20	1.3	103	102	99.3	7.0	20
Barium	anr									
Beryllium	0.0	0.0	NC	0-20	0.0	2.7	2.56	105.5	11.8	20
Cadmium	0.0	0.0	NC	0-20	0.0	2.6	2.56	101.6	8.0	20
Calcium										
Chromium	0.96	1.0	4.1	0-20	0.96	12.0	10.2	107.8	8.7	20
Cobalt										
Copper	0.71	0.77	8.1	0-20	0.71	14.3	12.8	106.2	8.8	20
Iron										
Lead	1.9	2.0	5.1	0-20	1.9	27.7	25.6	100.8	8.3	20
Magnesium										
Manganese	5.7	5.0	13.1	0-20	5.7	32.1	25.6	103.1	8.8	20
Molybdenum										
Nickel	0.30	0.32	6.5	0-20	0.30	27.2	25.6	105.1	7.2	20
Potassium										
Selenium	0.17	0.13	26.7 (a)	0-20	0.17	100	102	97.5	6.6	20
Silver	0.0	0.0	NC	0-20	0.0	2.5	2.56	97.7	8.3	20
Sodium										
Strontium										
Thallium	0.0	0.0	NC	0-20	0.0	100	102	97.7	6.6	20
Tin										
Titanium										
Vanadium										
Zinc	1.4	1.5	6.9	0-20	1.4	27.5	25.6	102.0	9.1	20

Associated samples MP27317: FA15202-5, FA15202-6, FA15202-7, FA15202-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	FA15307-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum					
Antimony	0.099	17.0	23.4	72.4N(a)	80-120
Arsenic	1.3	96.0	93.4	101.4	80-120
Barium	anr				
Beryllium	0.0	2.4	2.34	102.8	80-120
Cadmium	0.0	2.4	2.34	102.8	80-120
Calcium					
Chromium	0.96	11.0	9.34	107.5	80-120
Cobalt					
Copper	0.71	13.1	11.7	106.1	80-120
Iron					
Lead	1.9	25.5	23.4	101.1	80-120
Magnesium					
Manganese	5.7	29.4	23.4	101.5	80-120
Molybdenum					
Nickel	0.30	25.3	23.4	107.0	80-120
Potassium					
Selenium	0.17	93.6	93.4	100.0	80-120
Silver	0.0	2.3	2.34	98.5	80-120
Sodium					
Strontium					
Thallium	0.0	93.6	93.4	100.2	80-120
Tin					
Titanium					
Vanadium					
Zinc	1.4	25.1	23.4	101.5	80-120

Associated samples MP27317: FA15202-5, FA15202-6, FA15202-7, FA15202-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	25.0	25	100.0	80-120
Arsenic	101	100	101.0	80-120
Barium	anr			
Beryllium	2.6	2.5	104.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium				
Chromium	10.5	10	105.0	80-120
Cobalt				
Copper	13.3	12.5	106.4	80-120
Iron				
Lead	24.6	25	98.4	80-120
Magnesium				
Manganese	26.1	25	104.4	80-120
Molybdenum				
Nickel	26.1	25	104.4	80-120
Potassium				
Selenium	99.5	100	99.5	80-120
Silver	2.5	2.5	100.0	80-120
Sodium				
Strontium				
Thallium	98.1	100	98.1	80-120
Tin				
Titanium				
Vanadium				
Zinc	25.6	25	102.4	80-120

Associated samples MP27317: FA15202-5, FA15202-6, FA15202-7, FA15202-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/29/14

Metal	FA15307-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	2.00	0.00	100.0(a)	0-10
Arsenic	27.1	23.4	13.7 (a)	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	19.5	21.0	7.7	0-10
Cobalt				
Copper	14.3	17.0	18.9 (a)	0-10
Iron				
Lead	38.6	42.3	9.6	0-10
Magnesium				
Manganese	116	125	7.8	0-10
Molybdenum				
Nickel	6.10	5.90	3.3	0-10
Potassium				
Selenium	3.40	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium				
Zinc	28.1	35.3	25.6 (a)	0-10

Associated samples MP27317: FA15202-5, FA15202-6, FA15202-7, FA15202-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15202
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/29/14

Metal	Sample ml	Final ml	FA15307-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	2	1.96	102.9	0.2	5	100	100.9	80-120
Arsenic	9.8	10	27.1	26.558	129.5	0.2	5	100	102.9	80-120
Barium										
Beryllium	9.8	10			51.7	0.2	2.5	50	103.4	80-120
Cadmium	9.8	10			52.7	0.2	2.5	50	105.4	80-120
Calcium										
Chromium	9.8	10	19.5	19.11	72.2	0.2	2.5	50	106.2	80-120
Cobalt										
Copper	9.8	10	14.3	14.014	119	0.2	5	100	105.0	80-120
Iron										
Lead	9.8	10	38.6	37.828	87.9	0.2	2.5	50	100.1	80-120
Magnesium										
Manganese	9.8	10	116.3	113.974	168.3	0.2	2.5	50	108.7	80-120
Molybdenum										
Nickel	9.8	10	6.1	5.978	114.3	0.2	5	100	108.3	80-120
Potassium										
Selenium	9.8	10	3.4	3.332	101.4	0.2	5	100	98.1	80-120
Silver	9.8	10			49.3	0.2	2.5	50	98.6	80-120
Sodium										
Strontium										
Thallium	9.8	10			100.4	0.2	5	100	100.4	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	28.1	27.538	285.6	0.2	12.5	250	103.2	80-120

Associated samples MP27317: FA15202-5, FA15202-6, FA15202-7, FA15202-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

Reissue #1
06/18/14

Technical Report for

ERM

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Accutest Job Number: FA15245

Sampling Date: 05/22/14

Report to:

ERM

gregory.kanellis@erm.com
Lane.Dorman@erm.com; Robert.Laumann@erm.com
ATTN: Lane Dorman

Total number of pages in report: **104**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

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June 18, 2014

Mr. Gregory Kanellis

ERM NC, Inc.
1130 Situs Court
Suite 250
Raleigh, NC 27606

RE: Accutest job FA15245

Dear Mr. Kanellis,

The final report for job number FA15245 has been revised as per your request. The following edits have been incorporated into the final report.

The Sample IDs for all samples beginning with "GP" have been revised.

Please review your report and advise if you have questions or require anything further.

Sincerely,

Accutest Laboratories, SE

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Accutest Laboratories

Sample Summary

ERM

Job No: FA15245

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15245-1	05/22/14	10:45	GK	05/23/14	SO	Soil	WP-51 @ 4'
FA15245-1L	05/22/14	10:45	GK	05/23/14	SO	Soil	WP-51 @ 4'
FA15245-2	05/22/14	11:50	GK	05/23/14	SO	Soil	WP-53 @ 1'
FA15245-2L	05/22/14	11:50	GK	05/23/14	SO	Soil	WP-53 @ 1'
FA15245-3	05/22/14	12:00	GK	05/23/14	SO	Soil	WP-53 @ 3'
FA15245-3L	05/22/14	12:00	GK	05/23/14	SO	Soil	WP-53 @ 3'
FA15245-4	05/22/14	12:30	GK	05/23/14	SO	Soil	WP-54 @ 1'
FA15245-4L	05/22/14	12:30	GK	05/23/14	SO	Soil	WP-54 @ 1'
FA15245-5	05/22/14	12:05	GK	05/23/14	SO	Soil	DUP-1
FA15245-6	05/22/14	09:00	GK	05/23/14	AQ	Equipment Blank	RB-1
FA15245-7	05/22/14	00:00	GK	05/23/14	AQ	Trip Blank Soil	TRIP BLANK-2
FA15245-8	05/22/14	00:00	GK	05/23/14	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA15245
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/22/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15245-1	**WP-51 @ 4'**					
Trichloroethylene		26.0	6.8	1.4	ug/kg	SW846 8260B
Total TIC, Volatile		250 J			ug/kg	
FA15245-1L	**WP-51 @ 4'**					
Benzene		0.00034 J	0.0010	0.00024	mg/l	SW846 8260B
Ethylbenzene		0.0052	0.0010	0.00028	mg/l	SW846 8260B
Methylene chloride		0.0033 J	0.0050	0.0020	mg/l	SW846 8260B
Tetrachloroethylene		0.0029	0.0010	0.00026	mg/l	SW846 8260B
Toluene		0.0109	0.0010	0.00020	mg/l	SW846 8260B
Xylene (total)		0.0316	0.0030	0.00066	mg/l	SW846 8260B
FA15245-2	**WP-53 @ 1'**					
Trichloroethylene		5.6 J	7.4	1.5	ug/kg	SW846 8260B
FA15245-2L	**WP-53 @ 1'**					
Ethylbenzene		0.0060	0.0010	0.00028	mg/l	SW846 8260B
Toluene		0.0127	0.0010	0.00020	mg/l	SW846 8260B
Xylene (total)		0.0436	0.0030	0.00066	mg/l	SW846 8260B
FA15245-3	**WP-53 @ 3'**					
Trichloroethylene		21.6	6.7	1.4	ug/kg	SW846 8260B
Beryllium [a]		0.26 B	1.1	0.11	mg/kg	SW846 6010C
Copper [a]		55.9	5.6	0.23	mg/kg	SW846 6010C
Manganese [a]		242	3.4	0.11	mg/kg	SW846 6010C
Nickel [a]		20.7	9.0	0.11	mg/kg	SW846 6010C
Zinc [a]		37.1	4.5	0.68	mg/kg	SW846 6010C
FA15245-3L	**WP-53 @ 3'**					
Benzene		0.00064 J	0.0010	0.00024	mg/l	SW846 8260B
Ethylbenzene		0.0116	0.0010	0.00028	mg/l	SW846 8260B
Tetrachloroethylene		0.00041 J	0.0010	0.00026	mg/l	SW846 8260B
Toluene		0.0210	0.0010	0.00020	mg/l	SW846 8260B
Xylene (total)		0.0894	0.0030	0.00066	mg/l	SW846 8260B
FA15245-4	**WP-54 @ 1'**					
Tetrachloroethylene		7.8	5.0	1.3	ug/kg	SW846 8260B
Trichloroethylene		1090	270	55	ug/kg	SW846 8260B

Summary of Hits

Job Number: FA15245
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 05/22/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15245-4L	**WP-54 @ 1'**					
Styrene		0.00052 J	0.0010	0.00023	mg/l	SW846 8260B
Toluene		0.00025 J	0.0010	0.00020	mg/l	SW846 8260B
Xylene (total)		0.0019 J	0.0030	0.00066	mg/l	SW846 8260B
FA15245-5	**DUP-1**					
Trichloroethylene		42.5	6.5	1.3	ug/kg	SW846 8260B
Beryllium [a]		0.14 B	0.98	0.098	mg/kg	SW846 6010C
Copper [a]		49.3	4.9	0.20	mg/kg	SW846 6010C
Manganese [a]		215	2.9	0.098	mg/kg	SW846 6010C
Nickel [a]		16.6	7.8	0.098	mg/kg	SW846 6010C
Zinc [a]		34.2	3.9	0.59	mg/kg	SW846 6010C
FA15245-6	**RB-1**					
Toluene		0.58 J	1.0	0.20	ug/l	SW846 8260B
Copper		4.2 B	25	1.0	ug/l	SW846 6010C
Manganese		2.5 B	15	1.0	ug/l	SW846 6010C
Zinc		10.2 B	20	3.0	ug/l	SW846 6010C
FA15245-7	**TRIP BLANK-2**					
Carbon disulfide		0.21 J	2.0	0.20	ug/l	SW846 8260B
Total TIC, Volatile		37 J			ug/l	
FA15245-8	**TRIP BLANK**					

No hits reported in this sample.

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP-51 @ 4'		
Lab Sample ID:	FA15245-1	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	82.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064624.D	1	05/29/14	AH	n/a	n/a	VF2134
Run #2							

	Initial Weight
Run #1	3.98 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	7.6	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		75-126%
17060-07-0	1,2-Dichloroethane-D4	97%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-51 @ 4'		
Lab Sample ID:	FA15245-1	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	82.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y14182.D	1	05/23/14	EP	n/a	n/a	VY636
Run #2							

	Initial Weight
Run #1	4.49 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	68	20	ug/kg	
107-02-8	Acrolein	ND	34	15	ug/kg	
107-13-1	Acrylonitrile	ND	34	11	ug/kg	
71-43-2	Benzene	ND	6.8	1.4	ug/kg	
108-86-1	Bromobenzene	ND	6.8	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	6.8	2.6	ug/kg	
75-27-4	Bromodichloromethane	ND	6.8	1.4	ug/kg	
75-25-2	Bromoform	ND	6.8	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	6.8	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.8	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.8	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	6.8	1.4	ug/kg	
75-00-3	Chloroethane	ND	6.8	3.1	ug/kg	
67-66-3	Chloroform	ND	6.8	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.8	1.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.8	1.4	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	34	14	ug/kg	
75-15-0	Carbon disulfide	ND	6.8	1.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.8	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.8	1.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.8	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.8	1.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.8	2.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.8	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.8	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.8	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.8	1.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.8	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.8	1.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.8	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.8	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.8	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-51 @ 4'		
Lab Sample ID:	FA15245-1	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	82.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	6.8	1.4	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.8	1.4	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.8	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.8	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.8	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	6.8	1.4	ug/kg	
591-78-6	2-Hexanone	ND	34	6.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.8	1.4	ug/kg	
98-82-8	Isopropylbenzene	ND	6.8	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.8	1.4	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	34	6.8	ug/kg	
74-83-9	Methyl bromide	ND	6.8	2.5	ug/kg	
74-87-3	Methyl chloride	ND	6.8	2.7	ug/kg	
74-95-3	Methylene bromide	ND	6.8	1.6	ug/kg	
75-09-2	Methylene chloride	ND	14	5.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	34	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.8	1.4	ug/kg	
91-20-3	Naphthalene	ND	6.8	2.7	ug/kg	
103-65-1	n-Propylbenzene	ND	6.8	1.4	ug/kg	
100-42-5	Styrene	ND	6.8	1.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.8	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.8	1.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.8	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.8	2.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.8	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.8	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.8	1.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.8	1.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.8	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.8	1.7	ug/kg	
108-88-3	Toluene	ND	6.8	1.4	ug/kg	
79-01-6	Trichloroethylene	26.0	6.8	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.8	1.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.8	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	34	11	ug/kg	
	m,p-Xylene	ND	14	2.2	ug/kg	
95-47-6	o-Xylene	ND	6.8	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-51 @ 4'		
Lab Sample ID:	FA15245-1	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	82.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		75-124%
2037-26-5	Toluene-D8	88%		75-126%
460-00-4	4-Bromofluorobenzene	91%		71-133%
17060-07-0	1,2-Dichloroethane-D4	87%		72-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
287-92-3	Cyclopentane	4.20	250	ug/kg	JN
	Total TIC, Volatile		250	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-51 @ 4'		
Lab Sample ID:	FA15245-1L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	82.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0076819.D	1	06/02/14	RB	05/28/14	OP51772	VN3363
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		0.025	0.011	mg/l	
71-43-2	Benzene	0.00034		0.0010	0.00024	mg/l	J
75-27-4	Bromodichloromethane	ND		0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND		0.0010	0.00038	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND		0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00031	mg/l	
75-15-0	Carbon disulfide	ND		0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND		0.0010	0.00025	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00036	mg/l	
124-48-1	Dibromochloromethane	ND		0.0010	0.00036	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND		0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND		0.0010	0.00034	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	0.0052		0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND		0.010	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone	ND		0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND		0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND		0.0020	0.00053	mg/l	
75-09-2	Methylene chloride	0.0033		0.0050	0.0020	mg/l	J
78-93-3	Methyl ethyl ketone	ND		0.0050	0.0015	mg/l	
100-42-5	Styrene	ND		0.0010	0.00023	mg/l	
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00032	mg/l	
127-18-4	Tetrachloroethylene	0.0029		0.0010	0.00026	mg/l	
108-88-3	Toluene	0.0109		0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	ND		0.0010	0.00030	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-51 @ 4'		
Lab Sample ID:	FA15245-1L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	82.3
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND		0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	0.0316		0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 1'		
Lab Sample ID:	FA15245-2	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	91.5
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064625.D	1	05/29/14	AH	n/a	n/a	VF2134
Run #2							

	Initial Weight
Run #1	4.92 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.6	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		75-126%
17060-07-0	1,2-Dichloroethane-D4	97%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 1'		
Lab Sample ID:	FA15245-2	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	91.5
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y14183.D	1	05/23/14	EP	n/a	n/a	VY636
Run #2							

	Initial Weight
Run #1	3.70 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	74	22	ug/kg	
107-02-8	Acrolein	ND	37	16	ug/kg	
107-13-1	Acrylonitrile	ND	37	12	ug/kg	
71-43-2	Benzene	ND	7.4	1.5	ug/kg	
108-86-1	Bromobenzene	ND	7.4	1.6	ug/kg	
74-97-5	Bromochloromethane	ND	7.4	2.8	ug/kg	
75-27-4	Bromodichloromethane	ND	7.4	1.5	ug/kg	
75-25-2	Bromoform	ND	7.4	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	7.4	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.4	1.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.4	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	7.4	1.5	ug/kg	
75-00-3	Chloroethane	ND	7.4	3.3	ug/kg	
67-66-3	Chloroform	ND	7.4	1.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	7.4	1.5	ug/kg	
106-43-4	p-Chlorotoluene	ND	7.4	1.5	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	37	15	ug/kg	
75-15-0	Carbon disulfide	ND	7.4	1.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.4	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.4	1.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	7.4	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	7.4	1.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.4	3.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	7.4	2.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.4	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.4	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.4	1.5	ug/kg	
594-20-7	2,2-Dichloropropane	ND	7.4	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	7.4	1.5	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.4	1.9	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	7.4	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.4	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 1'		
Lab Sample ID:	FA15245-2	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	91.5
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	7.4	1.5	ug/kg	
95-50-1	o-Dichlorobenzene	ND	7.4	1.5	ug/kg	
106-46-7	p-Dichlorobenzene	ND	7.4	1.7	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	7.4	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.4	1.5	ug/kg	
100-41-4	Ethylbenzene	ND	7.4	1.5	ug/kg	
591-78-6	2-Hexanone	ND	37	7.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7.4	1.5	ug/kg	
98-82-8	Isopropylbenzene	ND	7.4	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.4	1.5	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	37	7.4	ug/kg	
74-83-9	Methyl bromide	ND	7.4	2.8	ug/kg	
74-87-3	Methyl chloride	ND	7.4	3.0	ug/kg	
74-95-3	Methylene bromide	ND	7.4	1.7	ug/kg	
75-09-2	Methylene chloride	ND	15	5.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	37	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	7.4	1.5	ug/kg	
91-20-3	Naphthalene	ND	7.4	3.0	ug/kg	
103-65-1	n-Propylbenzene	ND	7.4	1.5	ug/kg	
100-42-5	Styrene	ND	7.4	1.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	7.4	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.4	1.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.4	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.4	2.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.4	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.4	2.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.4	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.4	1.5	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.4	1.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	7.4	1.9	ug/kg	
108-88-3	Toluene	ND	7.4	1.5	ug/kg	
79-01-6	Trichloroethylene	5.6	7.4	1.5	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	7.4	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	7.4	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	37	12	ug/kg	
	m,p-Xylene	ND	15	2.3	ug/kg	
95-47-6	o-Xylene	ND	7.4	1.6	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 1'		
Lab Sample ID:	FA15245-2	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	91.5
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		75-124%
2037-26-5	Toluene-D8	89%		75-126%
460-00-4	4-Bromofluorobenzene	91%		71-133%
17060-07-0	1,2-Dichloroethane-D4	85%		72-135%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 1'		
Lab Sample ID:	FA15245-2L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	91.5
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0076820.D	1	06/02/14	RB	05/28/14	OP51772	VN3363
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		0.025	0.011	mg/l	
71-43-2	Benzene	ND		0.0010	0.00024	mg/l	
75-27-4	Bromodichloromethane	ND		0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND		0.0010	0.00038	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND		0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00031	mg/l	
75-15-0	Carbon disulfide	ND		0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND		0.0010	0.00025	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00036	mg/l	
124-48-1	Dibromochloromethane	ND		0.0010	0.00036	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND		0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND		0.0010	0.00034	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	0.0060		0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND		0.010	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone	ND		0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND		0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND		0.0020	0.00053	mg/l	
75-09-2	Methylene chloride	ND		0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND		0.0050	0.0015	mg/l	
100-42-5	Styrene	ND		0.0010	0.00023	mg/l	
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00032	mg/l	
127-18-4	Tetrachloroethylene	ND		0.0010	0.00026	mg/l	
108-88-3	Toluene	0.0127		0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	ND		0.0010	0.00030	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 1'		
Lab Sample ID:	FA15245-2L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	91.5
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND		0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	0.0436		0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 3'		
Lab Sample ID:	FA15245-3	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	86.8
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064626.D	1	05/29/14	AH	n/a	n/a	VF2134
Run #2							

	Initial Weight
Run #1	4.17 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	6.9	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		75-126%
17060-07-0	1,2-Dichloroethane-D4	100%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 3'		
Lab Sample ID:	FA15245-3	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	86.8
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y14184.D	1	05/23/14	EP	n/a	n/a	VY636
Run #2							

	Initial Weight
Run #1	4.31 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	67	20	ug/kg	
107-02-8	Acrolein	ND	33	14	ug/kg	
107-13-1	Acrylonitrile	ND	33	10	ug/kg	
71-43-2	Benzene	ND	6.7	1.3	ug/kg	
108-86-1	Bromobenzene	ND	6.7	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	2.6	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	1.3	ug/kg	
75-25-2	Bromoform	ND	6.7	1.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.7	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.7	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.7	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	1.3	ug/kg	
75-00-3	Chloroethane	ND	6.7	3.0	ug/kg	
67-66-3	Chloroform	ND	6.7	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.7	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.7	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	33	13	ug/kg	
75-15-0	Carbon disulfide	ND	6.7	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.7	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.7	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.7	1.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.7	2.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.7	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.7	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.7	1.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.7	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	1.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.7	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 3'		
Lab Sample ID:	FA15245-3	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	86.8
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	6.7	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.7	1.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.7	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.7	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	6.7	1.3	ug/kg	
591-78-6	2-Hexanone	ND	33	6.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.7	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.7	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	33	6.7	ug/kg	
74-83-9	Methyl bromide	ND	6.7	2.5	ug/kg	
74-87-3	Methyl chloride	ND	6.7	2.7	ug/kg	
74-95-3	Methylene bromide	ND	6.7	1.5	ug/kg	
75-09-2	Methylene chloride	ND	13	5.3	ug/kg	
78-93-3	Methyl ethyl ketone	ND	33	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.7	1.3	ug/kg	
91-20-3	Naphthalene	ND	6.7	2.7	ug/kg	
103-65-1	n-Propylbenzene	ND	6.7	1.3	ug/kg	
100-42-5	Styrene	ND	6.7	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.7	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	2.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.7	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.7	1.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.7	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.7	1.7	ug/kg	
108-88-3	Toluene	ND	6.7	1.3	ug/kg	
79-01-6	Trichloroethylene	21.6	6.7	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	33	11	ug/kg	
	m,p-Xylene	ND	13	2.1	ug/kg	
95-47-6	o-Xylene	ND	6.7	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 3'		
Lab Sample ID:	FA15245-3	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	86.8
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		75-124%
2037-26-5	Toluene-D8	86%		75-126%
460-00-4	4-Bromofluorobenzene	91%		71-133%
17060-07-0	1,2-Dichloroethane-D4	89%		72-135%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 3'		
Lab Sample ID:	FA15245-3	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
		Percent Solids:	86.8
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.45 U	4.5	0.45	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Beryllium [a]	0.26 B	1.1	0.11	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	55.9	5.6	0.23	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Manganese [a]	242	3.4	0.11	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Nickel [a]	20.7	9.0	0.11	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Thallium [a]	0.34 U	2.3	0.34	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	37.1	4.5	0.68	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11633
(2) Prep QC Batch: MP27317

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	WP-53 @ 3'		
Lab Sample ID:	FA15245-3L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	86.8
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0076821.D	1	06/02/14	RB	05/28/14	OP51772	VN3363
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		0.025	0.011	mg/l	
71-43-2	Benzene	0.00064		0.0010	0.00024	mg/l	J
75-27-4	Bromodichloromethane	ND		0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND		0.0010	0.00038	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND		0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00031	mg/l	
75-15-0	Carbon disulfide	ND		0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND		0.0010	0.00025	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00036	mg/l	
124-48-1	Dibromochloromethane	ND		0.0010	0.00036	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND		0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND		0.0010	0.00034	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	0.0116		0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND		0.010	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone	ND		0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND		0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND		0.0020	0.00053	mg/l	
75-09-2	Methylene chloride	ND		0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND		0.0050	0.0015	mg/l	
100-42-5	Styrene	ND		0.0010	0.00023	mg/l	
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00032	mg/l	
127-18-4	Tetrachloroethylene	0.00041		0.0010	0.00026	mg/l	J
108-88-3	Toluene	0.0210		0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	ND		0.0010	0.00030	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-53 @ 3'		
Lab Sample ID:	FA15245-3L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	86.8
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND		0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	0.0894		0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-54 @ 1'		
Lab Sample ID:	FA15245-4	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	93.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064627.D	1	05/29/14	AH	n/a	n/a	VF2134
Run #2							

	Initial Weight
Run #1	5.21 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.1	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		75-126%
17060-07-0	1,2-Dichloroethane-D4	102%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-54 @ 1'		
Lab Sample ID:	FA15245-4	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	93.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y14185.D	1	05/23/14	EP	n/a	n/a	VY636
Run #2	Y14196.D	1	05/27/14	EP	n/a	n/a	VY637

	Initial Weight	Methanol Aliquot
Run #1	5.35 g	
Run #2	5.26 g	100 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-54 @ 1'		
Lab Sample ID:	FA15245-4	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	93.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	7.8	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	1090 [a]	270	55	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-54 @ 1'		
Lab Sample ID:	FA15245-4	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	93.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%	85%	75-124%
2037-26-5	Toluene-D8	91%	87%	75-126%
460-00-4	4-Bromofluorobenzene	95%	87%	71-133%
17060-07-0	1,2-Dichloroethane-D4	89%	86%	72-135%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Result is from Run# 2
(b) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-54 @ 1'		
Lab Sample ID:	FA15245-4L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	93.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0076822.D	1	06/02/14	RB	05/28/14	OP51772	VN3363
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		0.025	0.011	mg/l	
71-43-2	Benzene	ND		0.0010	0.00024	mg/l	
75-27-4	Bromodichloromethane	ND		0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND		0.0010	0.00038	mg/l	
108-90-7	Chlorobenzene	ND		0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND		0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00031	mg/l	
75-15-0	Carbon disulfide	ND		0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND		0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND		0.0010	0.00025	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00036	mg/l	
124-48-1	Dibromochloromethane	ND		0.0010	0.00036	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND		0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND		0.0010	0.00034	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND		0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND		0.010	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone	ND		0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND		0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND		0.0020	0.00053	mg/l	
75-09-2	Methylene chloride	ND		0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND		0.0050	0.0015	mg/l	
100-42-5	Styrene	0.00052		0.0010	0.00023	mg/l	J
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00032	mg/l	
127-18-4	Tetrachloroethylene	ND		0.0010	0.00026	mg/l	
108-88-3	Toluene	0.00025		0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	ND		0.0010	0.00030	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-54 @ 1'		
Lab Sample ID:	FA15245-4L	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B SW846 1312	**Percent Solids:**	93.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND		0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	0.0019		0.0030	0.00066	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15245-5	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	88.9
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064628.D	1	05/29/14	AH	n/a	n/a	VF2134
Run #2							

	Initial Weight
Run #1	4.20 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	6.7	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		75-126%
17060-07-0	1,2-Dichloroethane-D4	99%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15245-5	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y14186.D	1	05/23/14	EP	n/a	n/a	VY636
Run #2							

	Initial Weight
Run #1	4.33 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	65	19	ug/kg	
107-02-8	Acrolein	ND	32	14	ug/kg	
107-13-1	Acrylonitrile	ND	32	10	ug/kg	
71-43-2	Benzene	ND	6.5	1.3	ug/kg	
108-86-1	Bromobenzene	ND	6.5	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	6.5	2.5	ug/kg	
75-27-4	Bromodichloromethane	ND	6.5	1.3	ug/kg	
75-25-2	Bromoform	ND	6.5	1.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.5	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.5	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.5	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	6.5	1.3	ug/kg	
75-00-3	Chloroethane	ND	6.5	2.9	ug/kg	
67-66-3	Chloroform	ND	6.5	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.5	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.5	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	32	13	ug/kg	
75-15-0	Carbon disulfide	ND	6.5	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.5	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.5	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.5	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.5	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.5	2.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.5	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.5	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.5	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.5	1.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.5	1.8	ug/kg	
124-48-1	Dibromochloromethane	ND	6.5	1.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.5	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.5	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.5	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15245-5	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	6.5	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.5	1.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.5	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.5	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.5	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	6.5	1.3	ug/kg	
591-78-6	2-Hexanone	ND	32	6.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.5	1.3	ug/kg	
98-82-8	Isopropylbenzene	ND	6.5	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.5	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	32	6.5	ug/kg	
74-83-9	Methyl bromide	ND	6.5	2.4	ug/kg	
74-87-3	Methyl chloride	ND	6.5	2.6	ug/kg	
74-95-3	Methylene bromide	ND	6.5	1.5	ug/kg	
75-09-2	Methylene chloride	ND	13	5.2	ug/kg	
78-93-3	Methyl ethyl ketone	ND	32	9.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.5	1.3	ug/kg	
91-20-3	Naphthalene	ND	6.5	2.6	ug/kg	
103-65-1	n-Propylbenzene	ND	6.5	1.3	ug/kg	
100-42-5	Styrene	ND	6.5	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.5	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.5	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.5	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.5	2.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.5	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.5	2.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.5	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.5	1.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.5	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.5	1.6	ug/kg	
108-88-3	Toluene	ND	6.5	1.3	ug/kg	
79-01-6	Trichloroethylene	42.5	6.5	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.5	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	6.5	1.3	ug/kg	
108-05-4	Vinyl Acetate	ND	32	10	ug/kg	
	m,p-Xylene	ND	13	2.1	ug/kg	
95-47-6	o-Xylene	ND	6.5	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15245-5	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		75-124%
2037-26-5	Toluene-D8	89%		75-126%
460-00-4	4-Bromofluorobenzene	92%		71-133%
17060-07-0	1,2-Dichloroethane-D4	87%		72-135%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA15245-5	**Date Sampled:**	05/22/14
Matrix:	SO - Soil	**Date Received:**	05/23/14
		Percent Solids:	88.9
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.39 U	3.9	0.39	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Beryllium [a]	0.14 B	0.98	0.098	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	49.3	4.9	0.20	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Manganese [a]	215	2.9	0.098	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Nickel [a]	16.6	7.8	0.098	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Thallium [a]	0.29 U	2.0	0.29	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	34.2	3.9	0.59	mg/kg	4	05/29/14	05/30/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11633
(2) Prep QC Batch: MP27317

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15245-6	**Date Sampled:**	05/22/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z26078.D	1	05/30/14	KW	n/a	n/a	VZ1017
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		74-125%
2037-26-5	Toluene-D8	91%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15245-6	**Date Sampled:**	05/22/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0076805.D	1	05/30/14	RB	n/a	n/a	VN3362
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15245-6	**Date Sampled:**	05/22/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.58	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15245-6	**Date Sampled:**	05/22/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.39	1700	ug/l	JNB
	Total TIC, Volatile		0	ug/l	

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-1		
Lab Sample ID:	FA15245-6	**Date Sampled:**	05/22/14
Matrix:	AQ - Equipment Blank	**Date Received:**	05/23/14
		Percent Solids:	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	2.3 U	6.0	2.3	ug/l	1	05/28/14	05/28/14	LM	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.50 U	4.0	0.50	ug/l	1	05/28/14	05/28/14	LM	SW846 6010C [1]	SW846 3010A [2]
Copper	4.2 B	25	1.0	ug/l	1	05/28/14	05/28/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2.5 B	15	1.0	ug/l	1	05/28/14	05/28/14	LM	SW846 6010C [1]	SW846 3010A [2]
Nickel	0.50 U	40	0.50	ug/l	1	05/28/14	05/28/14	LM	SW846 6010C [1]	SW846 3010A [2]
Thallium	2.0 U	10	2.0	ug/l	1	05/28/14	05/28/14	LM	SW846 6010C [1]	SW846 3010A [2]
Zinc	10.2 B	20	3.0	ug/l	1	05/28/14	05/28/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11628
(2) Prep QC Batch: MP27307

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK-2		
Lab Sample ID:	FA15245-7	**Date Sampled:**	05/22/14
Matrix:	AQ - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z26079.D	1	05/30/14	KW	n/a	n/a	VZ1017
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		74-125%
2037-26-5	Toluene-D8	90%		88-111%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-2		
Lab Sample ID:	FA15245-7	**Date Sampled:**	05/22/14
Matrix:	AQ - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0076806.D	1	05/30/14	RB	n/a	n/a	VN3362
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.21	2.0	0.20	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-2		
Lab Sample ID:	FA15245-7	**Date Sampled:**	05/22/14
Matrix:	AQ - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-2		
Lab Sample ID:	FA15245-7	**Date Sampled:**	05/22/14
Matrix:	AQ - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.40	1600	ug/l	JNB
67-63-0	Isopropyl Alcohol	4.78	37	ug/l	JN
	Total TIC, Volatile		37	ug/l	J

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15245-8	**Date Sampled:**	05/22/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064623.D	1	05/29/14	AH	n/a	n/a	VF2134
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		75-126%
17060-07-0	1,2-Dichloroethane-D4	103%		72-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15245-8	**Date Sampled:**	05/22/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y14187.D	1	05/23/14	EP	n/a	n/a	VY636
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15245-8	**Date Sampled:**	05/22/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15245-8	**Date Sampled:**	05/22/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/23/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		75-124%
2037-26-5	Toluene-D8	88%		75-126%
460-00-4	4-Bromofluorobenzene	92%		71-133%
17060-07-0	1,2-Dichloroethane-D4	87%		72-135%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) No TICs detected.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA15245 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: ERM
Address: 1130 Situs Ct. Suite 250
City: Raleigh State: NC Zip: 27606
Project Contact: E-mail: Lane.Dorman@erm.com
Phone#: 919-233-4501
Sampler(s) Name(s) (Printed): G. Korelli's

Project Information

Project Name: ECI Whitsett
Street: 1239 Rock Creek Dairy Rd.
City: Whitsett State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information / **Matrix Codes**

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	Total # of Bottles	Container Information: Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Total Sb, Be, Cu, Mn, Ni, Tl, Zn	VOC + 10 TICs 8260	1,4 Dioxane 8260SIM	SPLP VOC
1	GP-51@4'	5/22/14	1045	GK	SO	4		X						1	2		X	X	X
2	GP-53@1'		1150			4		X						1	2		X	X	X
3	GP-53@3'		1200			5		2						1	2	X	X	X	X
4	GP-54@1'		1230			4		1						1	2		X	X	X
5	Dup-1		1205			4		1						1	2	X	X	X	
6	RB-1		0900		WW	7			6		1					X	X	X	
7	Trip Blank-2		–	–	–	2									1		X	X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

RALEIGH, NC

SVC CENTER

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 G. Korelli's	5/22/14 1500	2 Brent Fader	3 Brent Fader	5/23/14 1800	4 FX
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 3.3

FA15245: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15245 CLIENT: ERM PROJECT: ECI Whitsett

DATE/TIME RECEIVED: 05/23/14 9:45 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8037 2093 7037

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 5+1 TripBlank

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.5
- [ ] CORRECTED TEMPS: 3.3

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 05/23/14 REVIEWER SIGNATURE/DATE [signature] 05-23-14

RS 04/14

receipt confirmation 041514.xls

4.1

4

FA15245: Chain of Custody

Page 2 of 4

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8037 2093 7037

1 From

Date 5/22/14

Sender's Name Ben. George Phone 615 656-7160

Company ERM

Address 5000 Meridian Blvd #300

Dept./Floor/Suite/Room

City Franklin State TN ZIP 37067

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 407 425-6700

Company Accutest Laboratories

Address 4405 Vineland Rd.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address Suite C-15

Use this line for the HOLD location address or for continuation of your shipping address.

City Orlando State FL ZIP 32811

HOLD Weekday FedEx location address

HOLD Saturday FedEx location address

8037 2093 7037

Recipient's Copy

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.

Next Business Day

- FedEx First Overnight
- FedEx Priority Overnight
- FedEx Standard

2 or 3 Business Days

- FedEx 2Day A.M.
- FedEx 2Day

5 Packaging

FedEx Envelope

6 Special Han

SATURDAY Del

No Signature R

Does this shipme

No

7 Payment

Sender

Total Packages 1

ORIGIN ID:THAA (792) 328-0200
ACCUTEST LABORATORIES SE, INC
4405 VINELAND RD STE C15
ORLANDO, FL 328115803
UNITED STATES US

SHIP DATE:
ACTWGT: 24
CAD: /PDS150
DIMS: 17x13x

BILL SENDER

TO

ACCUTEST LABORATORIES SE, INC
4405 VINELAND RD
STE C15
ORLANDO FL 32811
(407) 425-6700

REF:

DEPT:

TRK# 8037 2093 7037

FRI - 23 MAY
PRIORITY OVE

FA15245: Chain of Custody
Page 3 of 4

Job Change Order: FA15245_6/18/2014

Requested Date:	6/18/2014	**Received Date:**	5/23/2014
Account Name:	ERM	**Due Date:**	6/02/2014
Project	ECI Whitsett; 1239 Rock Creek Dairy Rd,	**Deliverable:**	COMMB
CSR:	JDS	**TAT (Days):**	1

Sample #:
FA15245-1-4, 1L-4L

Change: Per client, please change the sample IDs for the samples that start with"GP" and make them "WP". Thank you.

Above Changes Per: client, Greg Kanellis, via e-mail **Date:** 6/18/2014

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2134-MB	F0064622.D	1	05/29/14	AH	n/a	n/a	VF2134

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	102%	75-126%
17060-07-0	1,2-Dichloroethane-D4	102%	72-135%

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1017-MB	Z26076.D	1	05/30/14	KW	n/a	n/a	VZ1017

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15245-6, FA15245-7

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	115%	74-125%
2037-26-5	Toluene-D8	91%	88-111%

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY636-MB	Y14167.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY636-MB	Y14167.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY636-MB	Y14167.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	75-124%
2037-26-5	Toluene-D8	88%	75-126%
460-00-4	4-Bromofluorobenzene	93%	71-133%
17060-07-0	1,2-Dichloroethane-D4	87%	72-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	column bleed	11.45	3.1	ug/kg	J
	column bleed	13.37	4.8	ug/kg	J
	Total TIC, Volatile		7.9	ug/kg	J

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY637-MB	Y14195.D	1	05/27/14	EP	n/a	n/a	VY637

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-4

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	87%	75-124%
2037-26-5	Toluene-D8	83%	75-126%
460-00-4	4-Bromofluorobenzene	93%	71-133%
17060-07-0	1,2-Dichloroethane-D4	88%	72-135%

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3362-MB	N0076790.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3362-MB	N0076790.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3362-MB	N0076790.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.39	340	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Leachate Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51772-LB	N0076818.D	1	06/02/14	RB	05/28/14	OP51772	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

Leachate Blank Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51772-LB	N0076818.D	1	06/02/14	RB	05/28/14	OP51772	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2134-BS	F0064621.D	1	05/29/14	AH	n/a	n/a	VF2134

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
123-91-1	1,4-Dioxane	50	50.4	101	56-152

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	100%	75-126%
17060-07-0	1,2-Dichloroethane-D4	98%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1017-BS	Z26075.D	1	05/30/14	KW	n/a	n/a	VZ1017

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15245-6, FA15245-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	47.0	94	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	114%	74-125%
2037-26-5	Toluene-D8	92%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY636-BS	Y14166.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	285	114	61-152
107-02-8	Acrolein	250	282	113	48-178
107-13-1	Acrylonitrile	250	267	107	66-134
71-43-2	Benzene	50	51.1	102	76-126
108-86-1	Bromobenzene	50	52.9	106	76-122
74-97-5	Bromochloromethane	50	52.4	105	77-120
75-27-4	Bromodichloromethane	50	52.5	105	74-130
75-25-2	Bromoform	50	54.4	109	76-127
104-51-8	n-Butylbenzene	50	51.5	103	71-128
135-98-8	sec-Butylbenzene	50	55.4	111	79-135
98-06-6	tert-Butylbenzene	50	53.4	107	77-133
108-90-7	Chlorobenzene	50	56.9	114	81-129
75-00-3	Chloroethane	50	48.7	97	68-133
67-66-3	Chloroform	50	50.7	101	72-123
95-49-8	o-Chlorotoluene	50	54.5	109	77-129
106-43-4	p-Chlorotoluene	50	54.5	109	80-134
110-75-8	2-Chloroethyl vinyl ether	250	253	101	45-159
75-15-0	Carbon disulfide	50	55.8	112	72-122
56-23-5	Carbon tetrachloride	50	51.8	104	78-133
75-34-3	1,1-Dichloroethane	50	50.5	101	73-125
75-35-4	1,1-Dichloroethylene	50	48.1	96	81-136
563-58-6	1,1-Dichloropropene	50	52.2	104	75-130
96-12-8	1,2-Dibromo-3-chloropropane	50	52.2	104	70-137
106-93-4	1,2-Dibromoethane	50	54.1	108	77-126
107-06-2	1,2-Dichloroethane	50	52.0	104	74-128
78-87-5	1,2-Dichloropropane	50	51.9	104	74-125
142-28-9	1,3-Dichloropropane	50	53.0	106	76-122
594-20-7	2,2-Dichloropropane	50	54.2	108	77-133
124-48-1	Dibromochloromethane	50	54.8	110	76-127
75-71-8	Dichlorodifluoromethane	50	49.0	98	68-168
156-59-2	cis-1,2-Dichloroethylene	50	52.3	105	74-126
10061-01-5	cis-1,3-Dichloropropene	50	52.0	104	80-123
541-73-1	m-Dichlorobenzene	50	58.4	117	81-129
95-50-1	o-Dichlorobenzene	50	57.0	114	80-129
106-46-7	p-Dichlorobenzene	50	53.1	106	76-130
156-60-5	trans-1,2-Dichloroethylene	50	49.7	99	70-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY636-BS	Y14166.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	56.8	114	75-131
100-41-4	Ethylbenzene	50	51.5	103	77-123
591-78-6	2-Hexanone	250	267	107	72-133
87-68-3	Hexachlorobutadiene	50	52.9	106	74-136
98-82-8	Isopropylbenzene	50	56.2	112	80-136
99-87-6	p-Isopropyltoluene	50	55.2	110	77-131
108-10-1	4-Methyl-2-pentanone	250	265	106	76-132
74-83-9	Methyl bromide	50	52.8	106	65-139
74-87-3	Methyl chloride	50	51.4	103	71-144
74-95-3	Methylene bromide	50	52.1	104	74-124
75-09-2	Methylene chloride	50	50.3	101	74-137
78-93-3	Methyl ethyl ketone	250	278	111	75-137
1634-04-4	Methyl Tert Butyl Ether	50	51.9	104	77-120
91-20-3	Naphthalene	50	53.7	107	79-129
103-65-1	n-Propylbenzene	50	55.3	111	80-135
100-42-5	Styrene	50	54.2	108	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	54.9	110	78-126
71-55-6	1,1,1-Trichloroethane	50	53.2	106	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	53.1	106	71-126
79-00-5	1,1,2-Trichloroethane	50	52.2	104	74-124
87-61-6	1,2,3-Trichlorobenzene	50	54.5	109	77-128
96-18-4	1,2,3-Trichloropropane	50	54.7	109	74-127
120-82-1	1,2,4-Trichlorobenzene	50	55.8	112	78-130
95-63-6	1,2,4-Trimethylbenzene	50	52.1	104	74-123
108-67-8	1,3,5-Trimethylbenzene	50	50.7	101	73-122
127-18-4	Tetrachloroethylene	50	51.4	103	79-130
108-88-3	Toluene	50	51.7	103	76-124
79-01-6	Trichloroethylene	50	50.6	101	75-128
75-69-4	Trichlorofluoromethane	50	51.3	103	73-145
75-01-4	Vinyl chloride	50	48.6	97	76-141
108-05-4	Vinyl Acetate	250	303	121	48-164
	m,p-Xylene	100	109	109	80-128
95-47-6	o-Xylene	50	55.8	112	80-132

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY636-BS	Y14166.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	86%	75-124%
2037-26-5	Toluene-D8	87%	75-126%
460-00-4	4-Bromofluorobenzene	86%	71-133%
17060-07-0	1,2-Dichloroethane-D4	84%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY637-BS	Y14194.D	1	05/27/14	EP	n/a	n/a	VY637

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
79-01-6	Trichloroethylene	50	50.2	100	75-128

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	88%	75-124%
2037-26-5	Toluene-D8	85%	75-126%
460-00-4	4-Bromofluorobenzene	87%	71-133%
17060-07-0	1,2-Dichloroethane-D4	85%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3362-BS	N0076788.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	210	168*	50-147
107-02-8	Acrolein	125	58.7	47	31-154
107-13-1	Acrylonitrile	125	129	103	58-126
71-43-2	Benzene	25	25.0	100	81-122
108-86-1	Bromobenzene	25	24.5	98	80-121
74-97-5	Bromochloromethane	25	24.6	98	76-123
75-27-4	Bromodichloromethane	25	24.9	100	79-123
75-25-2	Bromoform	25	23.3	93	66-123
104-51-8	n-Butylbenzene	25	26.5	106	79-126
135-98-8	sec-Butylbenzene	25	26.6	106	83-133
98-06-6	tert-Butylbenzene	25	27.3	109	80-133
108-90-7	Chlorobenzene	25	26.8	107	82-124
75-00-3	Chloroethane	25	24.0	96	62-144
67-66-3	Chloroform	25	25.3	101	80-124
95-49-8	o-Chlorotoluene	25	26.4	106	81-127
106-43-4	p-Chlorotoluene	25	26.8	107	83-130
110-75-8	2-Chloroethyl vinyl ether	125	124	99	56-122
75-15-0	Carbon disulfide	25	24.7	99	66-148
56-23-5	Carbon tetrachloride	25	27.3	109	76-136
75-34-3	1,1-Dichloroethane	25	25.7	103	81-122
75-35-4	1,1-Dichloroethylene	25	28.3	113	78-137
563-58-6	1,1-Dichloropropene	25	27.1	108	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	24.6	98	64-123
106-93-4	1,2-Dibromoethane	25	24.1	96	75-120
107-06-2	1,2-Dichloroethane	25	24.9	100	75-125
78-87-5	1,2-Dichloropropane	25	24.5	98	76-124
142-28-9	1,3-Dichloropropane	25	23.9	96	80-118
594-20-7	2,2-Dichloropropane	25	28.8	115	74-139
124-48-1	Dibromochloromethane	25	24.0	96	78-122
75-71-8	Dichlorodifluoromethane	25	25.9	104	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120
10061-01-5	cis-1,3-Dichloropropene	25	24.9	100	75-118
541-73-1	m-Dichlorobenzene	25	26.5	106	84-125
95-50-1	o-Dichlorobenzene	25	26.5	106	82-124
106-46-7	p-Dichlorobenzene	25	24.1	96	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.3	105	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3362-BS	N0076788.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.9	108	80-120
100-41-4	Ethylbenzene	25	25.3	101	81-121
591-78-6	2-Hexanone	125	160	128	61-129
87-68-3	Hexachlorobutadiene	25	26.4	106	75-142
98-82-8	Isopropylbenzene	25	28.8	115	83-132
99-87-6	p-Isopropyltoluene	25	26.3	105	79-130
108-10-1	4-Methyl-2-pentanone	125	116	93	66-122
74-83-9	Methyl bromide	25	25.2	101	59-143
74-87-3	Methyl chloride	25	26.8	107	50-159
74-95-3	Methylene bromide	25	24.3	97	78-119
75-09-2	Methylene chloride	25	24.1	96	69-135
78-93-3	Methyl ethyl ketone	125	145	116	56-143
1634-04-4	Methyl Tert Butyl Ether	25	23.7	95	72-117
91-20-3	Naphthalene	25	22.3	89	63-132
103-65-1	n-Propylbenzene	25	26.2	105	82-133
100-42-5	Styrene	25	26.0	104	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.1	100	77-122
71-55-6	1,1,1-Trichloroethane	25	27.5	110	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	24.1	96	72-120
79-00-5	1,1,2-Trichloroethane	25	24.0	96	76-119
87-61-6	1,2,3-Trichlorobenzene	25	25.4	102	68-131
96-18-4	1,2,3-Trichloropropane	25	24.3	97	77-120
120-82-1	1,2,4-Trichlorobenzene	25	26.1	104	73-129
95-63-6	1,2,4-Trimethylbenzene	25	23.9	96	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.2	101	79-120
127-18-4	Tetrachloroethylene	25	25.9	104	76-135
108-88-3	Toluene	25	24.8	99	80-120
79-01-6	Trichloroethylene	25	24.4	98	81-126
75-69-4	Trichlorofluoromethane	25	27.9	112	71-156
75-01-4	Vinyl chloride	25	25.4	102	69-159
108-05-4	Vinyl Acetate	125	148	118	43-154
	m,p-Xylene	50	50.5	101	79-126
95-47-6	o-Xylene	25	25.6	102	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3362-BS	N0076788.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3363-BS	N0076816.D	1	06/02/14	RB	n/a	n/a	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	180	144	50-147
71-43-2	Benzene	25	24.5	98	81-122
75-27-4	Bromodichloromethane	25	25.3	101	79-123
75-25-2	Bromoform	25	23.7	95	66-123
108-90-7	Chlorobenzene	25	26.2	105	82-124
75-00-3	Chloroethane	25	23.3	93	62-144
67-66-3	Chloroform	25	25.7	103	80-124
75-15-0	Carbon disulfide	25	25.5	102	66-148
56-23-5	Carbon tetrachloride	25	28.1	112	76-136
75-34-3	1,1-Dichloroethane	25	25.3	101	81-122
75-35-4	1,1-Dichloroethylene	25	28.6	114	78-137
107-06-2	1,2-Dichloroethane	25	26.1	104	75-125
78-87-5	1,2-Dichloropropane	25	24.4	98	76-124
124-48-1	Dibromochloromethane	25	24.0	96	78-122
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	78-120
10061-01-5	cis-1,3-Dichloropropene	25	25.6	102	75-118
156-60-5	trans-1,2-Dichloroethylene	25	25.5	102	76-127
10061-02-6	trans-1,3-Dichloropropene	25	27.2	109	80-120
100-41-4	Ethylbenzene	25	25.3	101	81-121
591-78-6	2-Hexanone	125	152	122	61-129
108-10-1	4-Methyl-2-pentanone	125	116	93	66-122
74-83-9	Methyl bromide	25	23.9	96	59-143
74-87-3	Methyl chloride	25	26.3	105	50-159
75-09-2	Methylene chloride	25	23.5	94	69-135
78-93-3	Methyl ethyl ketone	125	145	116	56-143
100-42-5	Styrene	25	25.8	103	78-119
71-55-6	1,1,1-Trichloroethane	25	28.2	113	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	23.4	94	72-120
79-00-5	1,1,2-Trichloroethane	25	23.3	93	76-119
127-18-4	Tetrachloroethylene	25	26.0	104	76-135
108-88-3	Toluene	25	24.5	98	80-120
79-01-6	Trichloroethylene	25	25.0	100	81-126
75-01-4	Vinyl chloride	25	24.8	99	69-159
1330-20-7	Xylene (total)	75	76.4	102	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3363-BS	N0076816.D	1	06/02/14	RB	n/a	n/a	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15245-1MS	F0064629.D	1	05/29/14	AH	n/a	n/a	VF2134
FA15245-1MSD	F0064630.D	1	05/29/14	AH	n/a	n/a	VF2134
FA15245-1	F0064624.D	1	05/29/14	AH	n/a	n/a	VF2134

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	FA15245-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		65.6	64.6	98	63	67.3	107	4	56-152/37

CAS No.	Surrogate Recoveries	MS	MSD	FA15245-1	Limits
2037-26-5	Toluene-D8	102%	96%	98%	75-126%
17060-07-0	1,2-Dichloroethane-D4	99%	97%	97%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15195-2MS	Z26098.D	1	05/30/14	KW	n/a	n/a	VZ1017
FA15195-2MSD	Z26099.D	1	05/30/14	KW	n/a	n/a	VZ1017
FA15195-2	Z26085.D	1	05/30/14	KW	n/a	n/a	VZ1017

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA15245-6, FA15245-7

CAS No.	Compound	FA15195-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		50	46.8	94	50	48.1	96	3	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA15195-2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%	108%	112%	74-125%
2037-26-5	Toluene-D8	91%	91%	91%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15241-2MS	Y14180.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2MSD	Y14181.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2 [a]	Y14171.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2 [a]	Y14178.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	FA15241-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	8100 U [b]		40600	43600	107	40600	41500	102	5	61-152/27
107-02-8	Acrolein	4100 U [b]		40600	43600	107	40600	40800	100	7	48-178/37
107-13-1	Acrylonitrile	4100 U [b]		40600	41500	102	40600	40700	100	2	66-134/26
71-43-2	Benzene	810 U [b]		8120	7910	97	8120	7820	96	1	76-126/26
108-86-1	Bromobenzene	810 U [b]		8120	8330	103	8120	8370	103	0	76-122/32
74-97-5	Bromochloromethane	810 U [b]		8120	8390	103	8120	8140	100	3	77-120/24
75-27-4	Bromodichloromethane	810 U [b]		8120	8210	101	8120	8000	99	3	74-130/25
75-25-2	Bromoform	810 U [b]		8120	8390	103	8120	8170	101	3	76-127/26
104-51-8	n-Butylbenzene	810 U [b]		8120	8070	99	8120	8060	99	0	71-128/35
135-98-8	sec-Butylbenzene	810 U [b]		8120	8330	103	8120	8340	103	0	79-135/34
98-06-6	tert-Butylbenzene	810 U [b]		8120	8110	100	8120	8190	101	1	77-133/34
108-90-7	Chlorobenzene	810 U [b]		8120	8630	106	8120	8550	105	1	81-129/29
75-00-3	Chloroethane	810 U [b]		8120	5280	65*	8120	5240	65*	1	68-133/29
67-66-3	Chloroform	810 U [b]		8120	7950	98	8120	7870	97	1	72-123/26
95-49-8	o-Chlorotoluene	810 U [b]		8120	8350	103	8120	8300	102	1	77-129/33
106-43-4	p-Chlorotoluene	810 U [b]		8120	8350	103	8120	8300	102	1	80-134/33
110-75-8	2-Chloroethyl vinyl ether	4100 U [b]		40600	41000	101	40600	40500	100	1	45-159/26
75-15-0	Carbon disulfide	810 U [b]		8120	8120	100	8120	8050	99	1	72-122/29
56-23-5	Carbon tetrachloride	810 U [b]		8120	7610	94	8120	7410	91	3	78-133/29
75-34-3	1,1-Dichloroethane	810 U [b]		8120	7850	97	8120	7700	95	2	73-125/27
75-35-4	1,1-Dichloroethylene	810 U [b]		8120	7330	90	8120	7320	90	0	81-136/28
563-58-6	1,1-Dichloropropene	810 U [b]		8120	7770	96	8120	7770	96	0	75-130/28
96-12-8	1,2-Dibromo-3-chloropropane	810 U [b]		8120	8320	102	8120	8260	102	1	70-137/29
106-93-4	1,2-Dibromoethane	810 U [b]		8120	8420	104	8120	8190	101	3	77-126/26
107-06-2	1,2-Dichloroethane	810 U [b]		8120	8150	100	8120	8120	100	0	74-128/23
78-87-5	1,2-Dichloropropane	810 U [b]		8120	7970	98	8120	8030	99	1	74-125/25
142-28-9	1,3-Dichloropropane	810 U [b]		8120	8320	102	8120	8020	99	4	76-122/26
594-20-7	2,2-Dichloropropane	810 U [b]		8120	8630	106	8120	8100	100	6	77-133/28
124-48-1	Dibromochloromethane	810 U [b]		8120	8360	103	8120	8260	102	1	76-127/27
75-71-8	Dichlorodifluoromethane	810 U [b]		8120	6910	85	8120	6910	85	0	68-168/29
156-59-2	cis-1,2-Dichloroethylene	810 U [b]		8120	8060	99	8120	7830	96	3	74-126/26
10061-01-5	cis-1,3-Dichloropropene	810 U [b]		8120	8130	100	8120	8090	100	0	80-123/26
541-73-1	m-Dichlorobenzene	810 U [b]		8120	9080	112	8120	9040	111	0	81-129/33
95-50-1	o-Dichlorobenzene	810 U [b]		8120	8910	110	8120	8960	110	1	80-129/32
106-46-7	p-Dichlorobenzene	810 U [b]		8120	8390	103	8120	8450	104	1	76-130/32
156-60-5	trans-1,2-Dichloroethylene	810 U [b]		8120	7630	94	8120	7490	92	2	70-127/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15241-2MS	Y14180.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2MSD	Y14181.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2 [a]	Y14171.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2 [a]	Y14178.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Compound	FA15241-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	810 U [b]		8120	8660	107	8120	8550	105	1	75-131/28
100-41-4	Ethylbenzene	810 U [b]		8120	8070	99	8120	7820	96	3	77-123/31
591-78-6	2-Hexanone	4100 U [b]		40600	40200	99	40600	39600	98	2	72-133/26
87-68-3	Hexachlorobutadiene	810 U [b]		8120	8040	99	8120	8410	104	4	74-136/38
98-82-8	Isopropylbenzene	810 U [b]		8120	8500	105	8120	8350	103	2	80-136/32
99-87-6	p-Isopropyltoluene	810 U [b]		8120	8530	105	8120	8470	104	1	77-131/34
108-10-1	4-Methyl-2-pentanone	4100 U [b]		40600	40000	99	40600	39000	96	3	76-132/26
74-83-9	Methyl bromide	810 U [b]		8120	7980	98	8120	7930	98	1	65-139/31
74-87-3	Methyl chloride	810 U [b]		8120	7600	94	8120	7680	95	1	71-144/27
74-95-3	Methylene bromide	810 U [b]		8120	8240	101	8120	8100	100	2	74-124/24
75-09-2	Methylene chloride	1600 U [b]		8120	7710	95	8120	7580	93	2	74-137/28
78-93-3	Methyl ethyl ketone	4100 U [b]		40600	41700	103	40600	41500	102	0	75-137/25
1634-04-4	Methyl Tert Butyl Ether	810 U [b]		8120	8090	100	8120	8010	99	1	77-120/24
91-20-3	Naphthalene	810 U [b]		8120	8650	107	8120	8760	108	1	79-129/33
103-65-1	n-Propylbenzene	810 U [b]		8120	8430	104	8120	8400	103	0	80-135/33
100-42-5	Styrene	810 U [b]		8120	8450	104	8120	8300	102	2	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	810 U [b]		8120	8410	104	8120	8200	101	3	78-126/27
71-55-6	1,1,1-Trichloroethane	810 U [b]		8120	8030	99	8120	7750	95	4	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	810 U [b]		8120	8050	99	8120	8120	100	1	71-126/30
79-00-5	1,1,2-Trichloroethane	810 U [b]		8120	8050	99	8120	8030	99	0	74-124/28
87-61-6	1,2,3-Trichlorobenzene	810 U [b]		8120	8920	110	8120	9060	112	2	77-128/35
96-18-4	1,2,3-Trichloropropane	810 U [b]		8120	8160	100	8120	8140	100	0	74-127/27
120-82-1	1,2,4-Trichlorobenzene	810 U [b]		8120	9330	115	8120	9190	113	2	78-130/34
95-63-6	1,2,4-Trimethylbenzene	810 U [b]		8120	8080	100	8120	8160	100	1	74-123/34
108-67-8	1,3,5-Trimethylbenzene	810 U [b]		8120	7920	98	8120	7870	97	1	73-122/33
127-18-4	Tetrachloroethylene	810 U [b]		8120	8400	103	8120	8170	101	3	79-130/31
108-88-3	Toluene	810 U [b]		8120	7920	98	8120	7750	95	2	76-124/30
79-01-6	Trichloroethylene	810 U [b]		8120	7840	97	8120	7810	96	0	75-128/27
75-69-4	Trichlorofluoromethane	810 U [b]		8120	7090	87	8120	6430	79	10	73-145/31
75-01-4	Vinyl chloride	810 U [b]		8120	7240	89	8120	7130	88	2	76-141/27
108-05-4	Vinyl Acetate	4100 U [b]		40600	49500	122	40600	50300	124	2	48-164/37
	m,p-Xylene	1600 U [b]		16200	16700	103	16200	16400	101	2	80-128/30
95-47-6	o-Xylene	810 U [b]		8120	8600	106	8120	8440	104	2	80-132/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15241-2MS	Y14180.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2MSD	Y14181.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2 [a]	Y14171.D	1	05/23/14	EP	n/a	n/a	VY636
FA15241-2 [a]	Y14178.D	1	05/23/14	EP	n/a	n/a	VY636

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1, FA15245-2, FA15245-3, FA15245-4, FA15245-5, FA15245-8

CAS No.	Surrogate Recoveries	MS	MSD	FA15241-2	FA15241-2	Limits
1868-53-7	Dibromofluoromethane	89%	85%	87%	90%	75-124%
2037-26-5	Toluene-D8	87%	85%	100%	110%	75-126%
460-00-4	4-Bromofluorobenzene	86%	85%	129%	139%* [c]	71-133%
17060-07-0	1,2-Dichloroethane-D4	84%	81%	83%	90%	72-135%

(a) Sample was prepared from a bulk container. Confirmation run for internal standard areas.
(b) Result is from Run #3.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15286-3MS	Y14213.D	1	05/27/14	EP	n/a	n/a	VY637
FA15286-3MSD	Y14214.D	1	05/27/14	EP	n/a	n/a	VY637
FA15286-3	Y14199.D	1	05/27/14	EP	n/a	n/a	VY637

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-4

CAS No.	Compound	FA15286-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
79-01-6	Trichloroethylene	ND		86.5	76.4	88	86.1	77.6	90	2	75-128/27

CAS No.	Surrogate Recoveries	MS	MSD	FA15286-3	Limits
1868-53-7	Dibromofluoromethane	86%	86%	88%	75-124%
2037-26-5	Toluene-D8	86%	87%	85%	75-126%
460-00-4	4-Bromofluorobenzene	85%	87%	91%	71-133%
17060-07-0	1,2-Dichloroethane-D4	83%	83%	94%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15195-1MS	N0076809.D	1	05/30/14	RB	n/a	n/a	VN3362
FA15195-1MSD	N0076810.D	1	05/30/14	RB	n/a	n/a	VN3362
FA15195-1	N0076793.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Compound	FA15195-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	93.9	75	125	91.1	73	3	50-147/21
107-02-8	Acrolein	ND		125	54.8	44	125	54.6	44	0	31-154/29
107-13-1	Acrylonitrile	ND		125	125	100	125	122	98	2	58-126/16
71-43-2	Benzene	ND		25	26.3	105	25	24.6	98	7	81-122/14
108-86-1	Bromobenzene	ND		25	25.8	103	25	24.2	97	6	80-121/14
74-97-5	Bromochloromethane	ND		25	26.3	105	25	24.7	99	6	76-123/14
75-27-4	Bromodichloromethane	ND		25	27.0	108	25	24.4	98	10	79-123/19
75-25-2	Bromoform	ND		25	19.1	76	25	18.5	74	3	66-123/21
104-51-8	n-Butylbenzene	ND		25	27.3	109	25	25.5	102	7	79-126/16
135-98-8	sec-Butylbenzene	ND		25	27.6	110	25	25.6	102	8	83-133/16
98-06-6	tert-Butylbenzene	ND		25	28.8	115	25	26.7	107	8	80-133/16
108-90-7	Chlorobenzene	ND		25	28.0	112	25	25.9	104	8	82-124/14
75-00-3	Chloroethane	ND		25	19.0	76	25	18.6	74	2	62-144/20
67-66-3	Chloroform	ND		25	27.9	112	25	25.8	103	8	80-124/15
95-49-8	o-Chlorotoluene	ND		25	27.6	110	25	25.7	103	7	81-127/15
106-43-4	p-Chlorotoluene	ND		25	28.0	112	25	25.7	103	9	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	125	ND	0*	nc	56-122/23
75-15-0	Carbon disulfide	ND		25	24.6	98	25	21.8	87	12	66-148/23
56-23-5	Carbon tetrachloride	ND		25	31.5	126	25	27.4	110	14	76-136/23
75-34-3	1,1-Dichloroethane	ND		25	26.9	108	25	24.6	98	9	81-122/15
75-35-4	1,1-Dichloroethylene	ND		25	30.3	121	25	27.3	109	10	78-137/18
563-58-6	1,1-Dichloropropene	ND		25	29.2	117	25	26.9	108	8	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	25.1	100	25	26.3	105	5	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	25.0	100	25	24.1	96	4	75-120/13
107-06-2	1,2-Dichloroethane	ND		25	28.5	114	25	27.7	111	3	75-125/14
78-87-5	1,2-Dichloropropane	ND		25	25.9	104	25	23.4	94	10	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	24.9	100	25	24.1	96	3	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	31.6	126	25	28.9	116	9	74-139/17
124-48-1	Dibromochloromethane	ND		25	21.9	88	25	21.1	84	4	78-122/19
75-71-8	Dichlorodifluoromethane	ND		25	23.6	94	25	21.3	85	10	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		25	26.3	105	25	24.4	98	7	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	25.1	100	25	22.3	89	12	75-118/23
541-73-1	m-Dichlorobenzene	ND		25	27.6	110	25	26.0	104	6	84-125/14
95-50-1	o-Dichlorobenzene	ND		25	28.1	112	25	26.3	105	7	82-124/14
106-46-7	p-Dichlorobenzene	ND		25	25.6	102	25	23.7	95	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	27.6	110	25	24.8	99	11	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15195-1MS	N0076809.D	1	05/30/14	RB	n/a	n/a	VN3362
FA15195-1MSD	N0076810.D	1	05/30/14	RB	n/a	n/a	VN3362
FA15195-1	N0076793.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Compound	FA15195-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.8	111	25	25.9	104	7	80-120/22
100-41-4	Ethylbenzene	ND		25	26.2	105	25	24.3	97	8	81-121/14
591-78-6	2-Hexanone	ND		125	117	94	125	115	92	2	61-129/18
87-68-3	Hexachlorobutadiene	ND		25	27.5	110	25	25.8	103	6	75-142/19
98-82-8	Isopropylbenzene	ND		25	29.6	118	25	27.4	110	8	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	26.6	106	25	24.7	99	7	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		125	117	94	125	119	95	2	66-122/16
74-83-9	Methyl bromide	ND		25	21.6	86	25	19.6	78	10	59-143/19
74-87-3	Methyl chloride	ND		25	20.6	82	25	19.4	78	6	50-159/19
74-95-3	Methylene bromide	ND		25	26.7	107	25	26.0	104	3	78-119/14
75-09-2	Methylene chloride	ND		25	26.1	104	25	24.4	98	7	69-135/16
78-93-3	Methyl ethyl ketone	ND		125	99.7	80	125	98.5	79	1	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.6	98	25	23.8	95	3	72-117/14
91-20-3	Naphthalene	ND		25	21.8	87	25	22.4	90	3	63-132/25
103-65-1	n-Propylbenzene	ND		25	27.3	109	25	25.1	100	8	82-133/15
100-42-5	Styrene	ND		25	23.5	94	25	21.7	87	8	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	26.3	105	25	25.4	102	3	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		25	31.0	124	25	27.6	110	12	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.0	100	25	24.4	98	2	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		25	24.7	99	25	23.9	96	3	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	25.9	104	25	25.8	103	0	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		25	26.8	107	25	26.1	104	3	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		25	26.2	105	25	25.8	103	2	73-129/20
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.6	94	25	21.8	87	8	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	24.5	98	25	22.8	91	7	79-120/19
127-18-4	Tetrachloroethylene	ND		25	27.5	110	25	25.2	101	9	76-135/16
108-88-3	Toluene	ND		25	25.0	100	25	23.6	94	6	80-120/14
79-01-6	Trichloroethylene	ND		25	26.8	107	25	24.7	99	8	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	27.4	110	25	24.1	96	13	71-156/21
75-01-4	Vinyl chloride	ND		25	20.9	84	25	19.2	77	8	69-159/18
108-05-4	Vinyl Acetate	ND		125	170	136	125	165	132	3	43-154/14
	m,p-Xylene	ND		50	52.5	105	50	48.3	97	8	79-126/15
95-47-6	o-Xylene	ND		25	25.6	102	25	24.2	97	6	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15195-1MS	N0076809.D	1	05/30/14	RB	n/a	n/a	VN3362
FA15195-1MSD	N0076810.D	1	05/30/14	RB	n/a	n/a	VN3362
FA15195-1	N0076793.D	1	05/30/14	RB	n/a	n/a	VN3362

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-6, FA15245-7

CAS No.	Surrogate Recoveries	MS	MSD	FA15195-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	111%	104%	79-125%
2037-26-5	Toluene-D8	96%	98%	93%	85-112%
460-00-4	4-Bromofluorobenzene	96%	96%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15245-1LMS	N0076823.D	1	06/02/14	RB	n/a	n/a	VN3363
FA15245-1LMSD	N0076824.D	1	06/02/14	RB	n/a	n/a	VN3363
FA15245-1L	N0076819.D	1	06/02/14	RB	05/28/14	OP51772	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Compound	FA15245-1L ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	90.2	72	125	90.3	72	0	50-147/21
71-43-2	Benzene	0.34	J	25	25.8	102	25	25.3	100	2	81-122/14
75-27-4	Bromodichloromethane	ND		25	25.6	102	25	24.4	98	5	79-123/19
75-25-2	Bromoform	ND		25	21.8	87	25	21.6	86	1	66-123/21
108-90-7	Chlorobenzene	ND		25	26.6	106	25	26.6	106	0	82-124/14
75-00-3	Chloroethane	ND		25	22.1	88	25	21.8	87	1	62-144/20
67-66-3	Chloroform	ND		25	26.1	104	25	25.4	102	3	80-124/15
75-15-0	Carbon disulfide	ND		25	22.4	90	25	21.8	87	3	66-148/23
56-23-5	Carbon tetrachloride	ND		25	27.8	111	25	26.2	105	6	76-136/23
75-34-3	1,1-Dichloroethane	ND		25	25.5	102	25	24.9	100	2	81-122/15
75-35-4	1,1-Dichloroethylene	ND		25	27.9	112	25	26.9	108	4	78-137/18
107-06-2	1,2-Dichloroethane	ND		25	25.9	104	25	25.7	103	1	75-125/14
78-87-5	1,2-Dichloropropane	ND		25	24.1	96	25	23.6	94	2	76-124/14
124-48-1	Dibromochloromethane	ND		25	22.9	92	25	23.3	93	2	78-122/19
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.6	102	25	24.9	100	3	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.3	93	25	22.3	89	4	75-118/23
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.9	104	25	25.0	100	4	76-127/17
10061-02-6	trans-1,3-Dichloropropene	ND		25	26.3	105	25	26.8	107	2	80-120/22
100-41-4	Ethylbenzene	5.2		25	30.3	100	25	30.6	102	1	81-121/14
591-78-6	2-Hexanone	ND		125	115	92	125	117	94	2	61-129/18
108-10-1	4-Methyl-2-pentanone	ND		125	114	91	125	122	98	7	66-122/16
74-83-9	Methyl bromide	ND		25	24.5	98	25	23.6	94	4	59-143/19
74-87-3	Methyl chloride	ND		25	24.9	100	25	23.0	92	8	50-159/19
75-09-2	Methylene chloride	3.3	J	25	27.5	97	25	26.6	93	3	69-135/16
78-93-3	Methyl ethyl ketone	ND		125	101	81	125	102	82	1	56-143/18
100-42-5	Styrene	ND		25	26.2	105	25	25.5	102	3	78-119/23
71-55-6	1,1,1-Trichloroethane	ND		25	28.2	113	25	26.4	106	7	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.4	94	25	24.1	96	3	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		25	23.9	96	25	24.6	98	3	76-119/14
127-18-4	Tetrachloroethylene	2.9		25	29.4	106	25	29.7	107	1	76-135/16
108-88-3	Toluene	10.9		25	34.6	95	25	35.9	100	4	80-120/14
79-01-6	Trichloroethylene	ND		25	25.2	101	25	24.8	99	2	81-126/15
75-01-4	Vinyl chloride	ND		25	24.6	98	25	23.8	95	3	69-159/18
1330-20-7	Xylene (total)	31.6		75	112	107	75	112	107	0	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15245-1LMS	N0076823.D	1	06/02/14	RB	n/a	n/a	VN3363
FA15245-1LMSD	N0076824.D	1	06/02/14	RB	n/a	n/a	VN3363
FA15245-1L	N0076819.D	1	06/02/14	RB	05/28/14	OP51772	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Surrogate Recoveries	MS	MSD	FA15245-1L	Limits
1868-53-7	Dibromofluoromethane	103%	102%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	105%	106%	79-125%
2037-26-5	Toluene-D8	98%	101%	98%	85-112%
460-00-4	4-Bromofluorobenzene	96%	96%	97%	83-118%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15152-6DUP	N0076827.D	1	06/02/14	RB	n/a	n/a	VN3363
FA15152-6	N0076826.D	1	06/02/14	RB	05/28/14	OP51772	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Compound	FA15152-6 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	25 U		ND		nc	21
71-43-2	Benzene	2.4		2.3		4	14
75-27-4	Bromodichloromethane	1.0 U		ND		nc	19
75-25-2	Bromoform	1.0 U		ND		nc	21
108-90-7	Chlorobenzene	1.0 U		ND		nc	14
75-00-3	Chloroethane	0.58	J	ND		200*	20
67-66-3	Chloroform	1.0 U		ND		nc	15
75-15-0	Carbon disulfide	2.0 U		ND		nc	23
56-23-5	Carbon tetrachloride	1.0 U		ND		nc	23
75-34-3	1,1-Dichloroethane	1.0 U		ND		nc	15
75-35-4	1,1-Dichloroethylene	1.0 U		ND		nc	18
107-06-2	1,2-Dichloroethane	1.0 U		ND		nc	14
78-87-5	1,2-Dichloropropane	1.0 U		ND		nc	14
124-48-1	Dibromochloromethane	1.0 U		ND		nc	19
156-59-2	cis-1,2-Dichloroethylene	1.0 U		ND		nc	15
10061-01-5	cis-1,3-Dichloropropene	1.0 U		ND		nc	23
156-60-5	trans-1,2-Dichloroethylene	1.0 U		ND		nc	17
10061-02-6	trans-1,3-Dichloropropene	1.0 U		ND		nc	22
100-41-4	Ethylbenzene	74.5		61.9		18*	14
591-78-6	2-Hexanone	10 U		ND		nc	18
108-10-1	4-Methyl-2-pentanone	5.0 U		ND		nc	16
74-83-9	Methyl bromide	2.0 U		ND		nc	19
74-87-3	Methyl chloride	2.0 U		ND		nc	19
75-09-2	Methylene chloride	5.0 U		ND		nc	16
78-93-3	Methyl ethyl ketone	5.0 U		ND		nc	18
100-42-5	Styrene	1.0 U		ND		nc	23
71-55-6	1,1,1-Trichloroethane	1.0 U		ND		nc	16
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		ND		nc	14
79-00-5	1,1,2-Trichloroethane	1.0 U		ND		nc	14
127-18-4	Tetrachloroethylene	1.0 U		ND		nc	16
108-88-3	Toluene	4.4		7.5		52*	14
79-01-6	Trichloroethylene	1.0 U		ND		nc	15
75-01-4	Vinyl chloride	1.0 U		ND		nc	18
1330-20-7	Xylene (total)	211		165		24*	15

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA15245
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15152-6DUP	N0076827.D	1	06/02/14	RB	n/a	n/a	VN3363
FA15152-6	N0076826.D	1	06/02/14	RB	05/28/14	OP51772	VN3363

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15245-1L, FA15245-2L, FA15245-3L, FA15245-4L

CAS No.	Surrogate Recoveries	DUP	FA15152-6	Limits
1868-53-7	Dibromofluoromethane	99%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	79-125%
2037-26-5	Toluene-D8	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	83-118%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27307
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15		
Antimony	6.0	2	2.3	1.9	<6.0
Arsenic	10	2	2.4		
Barium	200	1	1		
Beryllium	4.0	.5	.5	0.0	<4.0
Cadmium	5.0	.5	.5		
Calcium	1000	50	50		
Chromium	10	1	2		
Cobalt	50	.5	.5		
Copper	25	1	1	0.30	<25
Iron	300	17	17		
Lead	5.0	1.1	1.1		
Magnesium	5000	50	56		
Manganese	15	.5	1	0.0	<15
Molybdenum	50	.5	.5		
Nickel	40	.5	.5	-0.10	<40
Potassium	10000	200	200		
Selenium	10	2.3	2.3		
Silver	10	.65	.77		
Sodium	10000	500	500		
Strontium	10	.4	.4		
Thallium	10	1.5	2	-1.0	<10
Tin	50	.7	1		
Titanium	10	.9	1		
Vanadium	50	.5	.5		
Zinc	20	3	3	3.2	<20

Associated samples MP27307: FA15245-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27307
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			05/28/14					05/28/14	
Metal	FA15195-1 Original	DUP	RPD	QC Limits	FA15195-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.0	0.0	NC	0-20	0.0	529	500	105.8	80-120
Arsenic	anr								
Barium									
Beryllium	0.0	0.0	NC	0-20	0.0	55.3	50	110.6	80-120
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	1.2	1.3	8.0	0-20	1.2	287	250	114.3	80-120
Iron	anr								
Lead	anr								
Magnesium									
Manganese	554	552	0.4	0-20	554	1110	500	111.2	80-120
Molybdenum									
Nickel	5.6	5.5	1.8	0-20	5.6	550	500	108.9	80-120
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	2100	2000	105.0	80-120
Tin									
Titanium									
Vanadium									
Zinc	16.5	19.3	15.6	0-20	16.5	529	500	102.5	80-120

Associated samples MP27307: FA15245-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27307
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	FA15195-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	526	500	105.2	0.6	20
Arsenic	anr					
Barium						
Beryllium	0.0	54.8	50	109.6	0.9	20
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	1.2	280	250	111.5	2.5	20
Iron	anr					
Lead	anr					
Magnesium						
Manganese	554	1100	500	109.2	0.9	20
Molybdenum						
Nickel	5.6	547	500	108.3	0.5	20
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium	0.0	2080	2000	104.0	1.0	20
Tin						
Titanium						
Vanadium						
Zinc	16.5	526	500	101.9	0.6	20

Associated samples MP27307: FA15245-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27307
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	529	500	105.8	80-120
Arsenic	anr			
Barium				
Beryllium	54.9	50	109.8	80-120
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	283	250	113.2	80-120
Iron	anr			
Lead	anr			
Magnesium				
Manganese	557	500	111.4	80-120
Molybdenum				
Nickel	546	500	109.2	80-120
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	2070	2000	103.5	80-120
Tin				
Titanium				
Vanadium				
Zinc	517	500	103.4	80-120

Associated samples MP27307: FA15245-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27307
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	FA15195-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	anr			
Barium				
Beryllium	0.00	0.00	NC	0-10
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	1.20	0.00	100.0(a)	0-10
Iron	anr			
Lead	anr			
Magnesium				
Manganese	554	528	4.6	0-10
Molybdenum				
Nickel	5.60	5.00	10.7 (a)	0-10
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium				
Zinc	16.5	16.0	3.0	0-10

Associated samples MP27307: FA15245-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27307
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	Sample ml	Final ml	FA15195-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			108	0.2	5	100	108.0	80-120
Arsenic										
Barium										
Beryllium	9.8	10			55.8	0.2	2.5	50	111.6	80-120
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10	1.2	1.176	115.7	0.2	5	100	114.5	80-120
Iron										
Lead										
Magnesium										
Manganese	9.8	10	553.6	542.528	592.8	0.2	2.5	50	100.5	80-120
Molybdenum										
Nickel	9.8	10	5.6	5.488	118.7	0.2	5	100	113.2	80-120
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium	9.8	10			106.1	0.2	5	100	106.1	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	16.5	16.17	295.3	0.2	12.5	250	111.7	80-120

Associated samples MP27307: FA15245-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1.6		
Antimony	1.0	.1	.1	0.055	<1.0
Arsenic	0.50	.1	.1		
Barium	10	.05	.05		
Beryllium	0.25	.025	.025	-0.010	<0.25
Cadmium	0.20	.025	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.05	0.030	<1.3
Iron	15	.85	1.3		
Lead	1.0	.055	.08		
Magnesium	250	2.5	2.5		
Manganese	0.75	.025	.025	0.040	<0.75
Molybdenum	2.5	.025	.03		
Nickel	2.0	.025	.025	0.15	<2.0
Potassium	500	10	10		
Selenium	1.0	.12	.15		
Silver	0.50	.033	.033		
Sodium	500	25	25		
Strontium	0.50	.02	.025		
Thallium	0.50	.075	.075	-0.040	<0.50
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.19	<1.0

Associated samples MP27317: FA15245-3, FA15245-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14 05/29/14

Metal	FA15307-1 Original	DUP	RPD	QC Limits	FA15307-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum										
Antimony	0.099	0.0	200.0(a)	0-20	0.099	18.5	25.6	71.9N(b)	8.5	20
Arsenic	anr									
Barium	anr									
Beryllium	0.0	0.0	NC	0-20	0.0	2.7	2.56	105.5	11.8	20
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper	0.71	0.77	8.1	0-20	0.71	14.3	12.8	106.2	8.8	20
Iron										
Lead	anr									
Magnesium										
Manganese	5.7	5.0	13.1	0-20	5.7	32.1	25.6	103.1	8.8	20
Molybdenum										
Nickel	0.30	0.32	6.5	0-20	0.30	27.2	25.6	105.1	7.2	20
Potassium										
Selenium	anr									
Silver	anr									
Sodium										
Strontium										
Thallium	0.0	0.0	NC	0-20	0.0	100	102	97.7	6.6	20
Tin										
Titanium										
Vanadium										
Zinc	1.4	1.5	6.9	0-20	1.4	27.5	25.6	102.0	9.1	20

Associated samples MP27317: FA15245-3, FA15245-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	FA15307-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum					
Antimony	0.099	17.0	23.4	72.4N(a)	80-120
Arsenic	anr				
Barium	anr				
Beryllium	0.0	2.4	2.34	102.8	80-120
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper	0.71	13.1	11.7	106.1	80-120
Iron					
Lead	anr				
Magnesium					
Manganese	5.7	29.4	23.4	101.5	80-120
Molybdenum					
Nickel	0.30	25.3	23.4	107.0	80-120
Potassium					
Selenium	anr				
Silver	anr				
Sodium					
Strontium					
Thallium	0.0	93.6	93.4	100.2	80-120
Tin					
Titanium					
Vanadium					
Zinc	1.4	25.1	23.4	101.5	80-120

Associated samples MP27317: FA15245-3, FA15245-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/29/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	25.0	25	100.0	80-120
Arsenic	anr			
Barium	anr			
Beryllium	2.6	2.5	104.0	80-120
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	13.3	12.5	106.4	80-120
Iron				
Lead	anr			
Magnesium				
Manganese	26.1	25	104.4	80-120
Molybdenum				
Nickel	26.1	25	104.4	80-120
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	98.1	100	98.1	80-120
Tin				
Titanium				
Vanadium				
Zinc	25.6	25	102.4	80-120

Associated samples MP27317: FA15245-3, FA15245-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/29/14

Metal	FA15307-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	2.00	0.00	100.0(a)	0-10
Arsenic	anr			
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	14.3	17.0	18.9 (a)	0-10
Iron				
Lead	anr			
Magnesium				
Manganese	116	125	7.8	0-10
Molybdenum				
Nickel	6.10	5.90	3.3	0-10
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium				
Zinc	28.1	35.3	25.6 (a)	0-10

Associated samples MP27317: FA15245-3, FA15245-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15245
Account: ERMNCR - ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

QC Batch ID: MP27317
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/29/14

Metal	Sample ml	Final ml	FA15307-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	2	1.96	102.9	0.2	5	100	100.9	80-120
Arsenic										
Barium										
Beryllium	9.8	10			51.7	0.2	2.5	50	103.4	80-120
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10	14.3	14.014	119	0.2	5	100	105.0	80-120
Iron										
Lead										
Magnesium										
Manganese	9.8	10	116.3	113.974	168.3	0.2	2.5	50	108.7	80-120
Molybdenum										
Nickel	9.8	10	6.1	5.978	114.3	0.2	5	100	108.3	80-120
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium	9.8	10			100.4	0.2	5	100	100.4	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	28.1	27.538	285.6	0.2	12.5	250	103.2	80-120

Associated samples MP27317: FA15245-3, FA15245-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

07/21/15

Technical Report for

ERM

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Accutest Job Number: FA25913

Sampling Date: 07/09/15

Report to:

ERM
1130 Situs Court Suite 250
Raleigh, NC 27606
gregory.kanellis@erm.com; Lane.Dorman@erm.com;
Robert.Laumann@erm.com
ATTN: Lane Dorman

Total number of pages in report: **32**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

ERM

Job No: FA25913

ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA25913-1	07/09/15	18:00	GK	07/10/15	SO	Soil	WP-56 @ 3'
FA25913-1L	07/09/15	18:00	GK	07/10/15	SO	Soil	WP-56 @ 3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA25913
Account: ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC
Collected: 07/09/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25913-1	**WP-56 @ 3'**					
No hits reported in this sample.						
FA25913-1L	**WP-56 @ 3'**					
Acetone		0.0239 J	0.025	0.010	mg/l	SW846 8260B
Benzene		0.00035 J	0.0010	0.00020	mg/l	SW846 8260B
Chlorobenzene		0.00031 J	0.0010	0.00020	mg/l	SW846 8260B
Ethylbenzene		0.0099	0.0010	0.00020	mg/l	SW846 8260B
Toluene		0.0077	0.0010	0.00040	mg/l	SW846 8260B
Xylene (total)		0.0583	0.0030	0.00051	mg/l	SW846 8260B

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WP-56 @ 3'		
Lab Sample ID:	FA25913-1	**Date Sampled:**	07/09/15
Matrix:	SO - Soil	**Date Received:**	07/10/15
Method:	SW846 8260B	**Percent Solids:**	88.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0099490.D	1	07/13/15	AD	n/a	n/a	VG3660
Run #2							

	Initial Weight
Run #1	5.37 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	52	16	ug/kg	
107-02-8	Acrolein	ND	26	14	ug/kg	
107-13-1	Acrylonitrile	ND	26	7.3	ug/kg	
71-43-2	Benzene	ND	5.2	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.2	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	1.0	ug/kg	
75-25-2	Bromoform	ND	5.2	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	26	8.9	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	1.0	ug/kg	
75-15-0	Carbon Disulfide	ND	5.2	1.5	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.2	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	26	10	ug/kg	
67-66-3	Chloroform	ND	5.2	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.2	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.2	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	1.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-56 @ 3'		
Lab Sample ID:	FA25913-1	**Date Sampled:**	07/09/15
Matrix:	SO - Soil	**Date Received:**	07/10/15
Method:	SW846 8260B	**Percent Solids:**	88.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	5.2	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.2	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.2	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	1.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.2	1.4	ug/kg	
591-78-6	2-Hexanone	ND	26	8.6	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.2	2.3	ug/kg	
74-87-3	Methyl Chloride	ND	5.2	2.1	ug/kg	
74-95-3	Methylene Bromide	ND	5.2	1.0	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	5.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	1.3	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.1	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	1.0	ug/kg	
100-42-5	Styrene	ND	5.2	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	1.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	1.7	ug/kg	
108-88-3	Toluene	ND	5.2	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	26	12	ug/kg	
75-01-4	Vinyl Chloride	ND	5.2	1.7	ug/kg	
	m,p-Xylene	ND	10	1.1	ug/kg	
95-47-6	o-Xylene	ND	5.2	1.0	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-56 @ 3'		
Lab Sample ID:	FA25913-1	**Date Sampled:**	07/09/15
Matrix:	SO - Soil	**Date Received:**	07/10/15
Method:	SW846 8260B	**Percent Solids:**	88.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		75-124%
17060-07-0	1,2-Dichloroethane-D4	115%		72-135%
2037-26-5	Toluene-D8	99%		75-126%
460-00-4	4-Bromofluorobenzene	99%		71-133%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-56 @ 3'		
Lab Sample ID:	FA25913-1L	**Date Sampled:**	07/09/15
Matrix:	SO - Soil	**Date Received:**	07/10/15
Method:	SW846 8260B SW846 1311	**Percent Solids:**	88.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0086927.D	1	07/17/15	RB	07/13/15	OP56799	VN3876
Run #2 [a]	N0086929.D	1	07/17/15	RB	07/13/15	OP56799	VN3876

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	0.0239		0.025	0.010	mg/l	J
71-43-2	Benzene	0.00035		0.0010	0.00020	mg/l	J
75-27-4	Bromodichloromethane	ND		0.0010	0.00022	mg/l	
75-25-2	Bromoform	ND		0.0010	0.00032	mg/l	
78-93-3	2-Butanone (MEK)	ND		0.0050	0.0012	mg/l	
75-15-0	Carbon Disulfide [b]	ND		0.0020	0.00029	mg/l	
56-23-5	Carbon Tetrachloride	ND		0.0010	0.00028	mg/l	
108-90-7	Chlorobenzene	0.00031		0.0010	0.00020	mg/l	J
75-00-3	Chloroethane	ND		0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND		0.0010	0.00030	mg/l	
124-48-1	Dibromochloromethane	ND		0.0010	0.00020	mg/l	
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00020	mg/l	
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00020	mg/l	
75-35-4	1,1-Dichloroethylene	ND		0.0010	0.00027	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND		0.0010	0.00022	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND		0.0010	0.00021	mg/l	
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00025	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00025	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00026	mg/l	
100-41-4	Ethylbenzene	0.0099		0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND		0.010	0.0020	mg/l	
74-83-9	Methyl Bromide	ND		0.0020	0.00050	mg/l	
74-87-3	Methyl Chloride	ND		0.0020	0.00050	mg/l	
75-09-2	Methylene Chloride	ND		0.0050	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.0050	0.0010	mg/l	
100-42-5	Styrene	ND		0.0010	0.00028	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00022	mg/l	
127-18-4	Tetrachloroethylene	ND		0.0010	0.00033	mg/l	
108-88-3	Toluene	0.0077		0.0010	0.00040	mg/l	
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00026	mg/l	
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00031	mg/l	
79-01-6	Trichloroethylene	ND		0.0010	0.00022	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WP-56 @ 3'		
Lab Sample ID:	FA25913-1L	**Date Sampled:**	07/09/15
Matrix:	SO - Soil	**Date Received:**	07/10/15
Method:	SW846 8260B SW846 1311	**Percent Solids:**	88.7
Project:	ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC		

VOA TCL List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND		0.0010	0.00025	mg/l	
1330-20-7	Xylene (total)	0.0583		0.0030	0.00051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	90%	83-118%
17060-07-0	1,2-Dichloroethane-D4	67% [c]	65% [c]	79-125%
2037-26-5	Toluene-D8	96%	94%	85-112%
460-00-4	4-Bromofluorobenzene	87%	86%	83-118%

(a) Confirmation run for internal standard areas.
(b) Associated ICV outside control limits.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (not available) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA25913 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: ERM NC
Address: 1130 Situs Ct. Suite 250
City: Raleigh State: NC Zip: 27606
Project Contact: Ed Hollifield E-mail: Ed.Hollifield@erm.com
Phone#: 919-233-4509
Sampler(s) Name(s) (Printed): G. Kanellis

Project Information

Project Name: ECI Whitsett
Street: Rock Creek Dairy Rd
City: Whitsett State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	VOCs by 8260	SPLP VOCs										LAB USE ONLY
1	WP-56@3'	7/9/15	1400	GK	SO	4		1						2	1	X	X										

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Accutest Laboratories
Raleigh, North Carolina
Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	7/9/15 1830	2 EX	3 EX 071015	900	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 3.0

4.1 4

FA25913: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA25913 CLIENT: ERM PROJECT: ECF Whitsett

DATE/TIME RECEIVED: 07-10-15 900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8047 2600 3473

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#
  {APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ? 1

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 07-10-15 REVIEWER SIGNATURE/DATE 7-10-15

NF 10/14 receipt confirmation 102914.xls

4.1

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FA25913: Chain of Custody
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FedEx Express Package US Airbill

FedEx Tracking Number 8047 2600 3473

1 From
Date 7-9-17
Sender's Name
Phone
Company
Address
Dept./Floor/Ste.
City
State
ZIP

2 Your Internal Billing Reference

3 To
Recipient's Name SUPPLY RECV
Phone
Company
Address
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room
HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.
HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Address
Use this line for the HOLD location address or for continuation of your shipping address.
City
State
ZIP

8047 2600 3473

UNV16112
MADE IN USA

fedex.com 1.800.GoFedEx 1.800.463.3339

Recipient's Copy

4 Express Package Service
* To most locations.
NOTE: Service order has changed: Please select carefully.
Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight

2 or 3 Business Days
FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.
FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

* Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
No Signature Required
Package may be left without obtaining a signature for delivery.
Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.
No
Yes As per attached Shipper's Declaration
Yes Shipper's Declaration not required.
Dry Ice
Dry Ice, 9, UN 1845 x kg
Cargo Aircraft Only
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. below.
Obtain recip. Acct. No.
Sender
Acct. No. in Section 1 will be billed.
Recipient
Third Party
Credit Card
Cash/Check

Total Packages
Total Weight
lbs.
Credit Card Auth.

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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B 3473 07.10
R267 5 10:30 ST 6.2

FA25913: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3660-MB	G0099487.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	13	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	8.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
75-15-0	Carbon Disulfide	ND	5.0	1.5	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	25	10	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3660-MB	G0099487.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.4	ug/kg	
591-78-6	2-Hexanone	ND	25	8.2	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.2	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	5.7	10	4.0	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.2	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	12	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.6	ug/kg	
	m,p-Xylene	ND	10	1.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3660-MB	G0099487.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	75-124%
17060-07-0	1,2-Dichloroethane-D4	112%	72-135%
2037-26-5	Toluene-D8	96%	75-126%
460-00-4	4-Bromofluorobenzene	98%	71-133%

Leachate Blank Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56799-LB	N0086919.D	1	07/17/15	RB	07/13/15	OP56799	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

Leachate Blank Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56799-LB	N0086919.D	1	07/17/15	RB	07/13/15	OP56799	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	109%	83-118%

Blank Spike Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3660-BS	G0099486.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	220	88	61-152
107-02-8	Acrolein	250	292	117	48-178
107-13-1	Acrylonitrile	250	236	94	66-134
71-43-2	Benzene	50	49.3	99	76-126
108-86-1	Bromobenzene	50	50.7	101	76-122
74-97-5	Bromochloromethane	50	50.6	101	77-120
75-27-4	Bromodichloromethane	50	52.7	105	74-130
75-25-2	Bromoform	50	50.3	101	76-127
78-93-3	2-Butanone (MEK)	250	227	91	75-137
104-51-8	n-Butylbenzene	50	52.5	105	71-128
135-98-8	sec-Butylbenzene	50	52.4	105	79-135
98-06-6	tert-Butylbenzene	50	52.0	104	77-133
75-15-0	Carbon Disulfide	50	47.9	96	72-122
56-23-5	Carbon Tetrachloride	50	48.6	97	78-133
108-90-7	Chlorobenzene	50	49.3	99	81-129
75-00-3	Chloroethane	50	43.4	87	68-133
110-75-8	2-Chloroethyl Vinyl Ether	250	287	115	45-159
67-66-3	Chloroform	50	61.1	122	72-123
95-49-8	o-Chlorotoluene	50	53.6	107	77-129
106-43-4	p-Chlorotoluene	50	51.4	103	80-134
124-48-1	Dibromochloromethane	50	52.4	105	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	46.2	92	70-137
106-93-4	1,2-Dibromoethane	50	47.0	94	77-126
75-71-8	Dichlorodifluoromethane	50	47.0	94	68-168
95-50-1	1,2-Dichlorobenzene	50	52.4	105	80-129
541-73-1	1,3-Dichlorobenzene	50	52.8	106	81-129
106-46-7	1,4-Dichlorobenzene	50	60.4	121	76-130
75-34-3	1,1-Dichloroethane	50	49.6	99	73-125
107-06-2	1,2-Dichloroethane	50	56.1	112	74-128
75-35-4	1,1-Dichloroethylene	50	47.8	96	81-136
156-59-2	cis-1,2-Dichloroethylene	50	53.5	107	74-126
156-60-5	trans-1,2-Dichloroethylene	50	47.9	96	70-127
78-87-5	1,2-Dichloropropane	50	50.3	101	74-125
142-28-9	1,3-Dichloropropane	50	47.3	95	76-122
594-20-7	2,2-Dichloropropane	50	54.6	109	77-133
563-58-6	1,1-Dichloropropene	50	50.3	101	75-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3660-BS	G0099486.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	53.3	107	80-123
10061-02-6	trans-1,3-Dichloropropene	50	54.9	110	75-131
100-41-4	Ethylbenzene	50	49.6	99	77-123
87-68-3	Hexachlorobutadiene	50	48.5	97	74-136
591-78-6	2-Hexanone	250	240	96	72-133
98-82-8	Isopropylbenzene	50	54.5	109	80-136
99-87-6	p-Isopropyltoluene	50	55.3	111	77-131
74-83-9	Methyl Bromide	50	63.1	126	65-139
74-87-3	Methyl Chloride	50	47.7	95	71-144
74-95-3	Methylene Bromide	50	49.6	99	74-124
75-09-2	Methylene Chloride	50	47.2	94	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	240	96	76-132
1634-04-4	Methyl Tert Butyl Ether	50	46.7	93	77-120
91-20-3	Naphthalene	50	58.5	117	79-129
103-65-1	n-Propylbenzene	50	52.6	105	80-135
100-42-5	Styrene	50	52.3	105	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	51.5	103	78-126
79-34-5	1,1,2,2-Tetrachloroethane	50	46.7	93	71-126
127-18-4	Tetrachloroethylene	50	48.6	97	79-130
108-88-3	Toluene	50	48.5	97	76-124
87-61-6	1,2,3-Trichlorobenzene	50	52.5	105	77-128
120-82-1	1,2,4-Trichlorobenzene	50	54.6	109	78-130
71-55-6	1,1,1-Trichloroethane	50	56.2	112	70-129
79-00-5	1,1,2-Trichloroethane	50	50.0	100	74-124
79-01-6	Trichloroethylene	50	49.7	99	75-128
75-69-4	Trichlorofluoromethane	50	60.9	122	73-145
96-18-4	1,2,3-Trichloropropane	50	47.9	96	74-127
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	74-123
108-67-8	1,3,5-Trimethylbenzene	50	53.4	107	73-122
108-05-4	Vinyl Acetate	250	237	95	48-164
75-01-4	Vinyl Chloride	50	51.1	102	76-141
	m,p-Xylene	100	104	104	80-128
95-47-6	o-Xylene	50	52.7	105	80-132

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3660-BS	G0099486.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	75-124%
17060-07-0	1,2-Dichloroethane-D4	97%	72-135%
2037-26-5	Toluene-D8	99%	75-126%
460-00-4	4-Bromofluorobenzene	99%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3876-BS	N0086918.D	1	07/17/15	RB	n/a	n/a	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	120	96	50-147
71-43-2	Benzene	25	26.9	108	81-122
75-27-4	Bromodichloromethane	25	26.4	106	79-123
75-25-2	Bromoform	25	25.8	103	66-123
78-93-3	2-Butanone (MEK)	125	109	87	56-143
75-15-0	Carbon Disulfide	25	28.4	114	66-148
56-23-5	Carbon Tetrachloride	25	29.1	116	76-136
108-90-7	Chlorobenzene	25	25.3	101	82-124
75-00-3	Chloroethane	25	35.8	143	62-144
67-66-3	Chloroform	25	27.2	109	80-124
124-48-1	Dibromochloromethane	25	24.9	100	78-122
75-34-3	1,1-Dichloroethane	25	27.8	111	81-122
107-06-2	1,2-Dichloroethane	25	28.3	113	75-125
75-35-4	1,1-Dichloroethylene	25	31.3	125	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.5	118	76-127
78-87-5	1,2-Dichloropropane	25	25.7	103	76-124
10061-01-5	cis-1,3-Dichloropropene	25	27.1	108	75-118
10061-02-6	trans-1,3-Dichloropropene	25	28.5	114	80-120
100-41-4	Ethylbenzene	25	26.4	106	81-121
591-78-6	2-Hexanone	125	115	92	61-129
74-83-9	Methyl Bromide	25	34.1	136	59-143
74-87-3	Methyl Chloride	25	33.4	134	50-159
75-09-2	Methylene Chloride	25	31.6	126	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	119	95	66-122
100-42-5	Styrene	25	25.0	100	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	72-120
127-18-4	Tetrachloroethylene	25	27.1	108	76-135
108-88-3	Toluene	25	25.7	103	80-120
71-55-6	1,1,1-Trichloroethane	25	27.5	110	75-130
79-00-5	1,1,2-Trichloroethane	25	25.1	100	76-119
79-01-6	Trichloroethylene	25	27.2	109	81-126
75-01-4	Vinyl Chloride	25	35.3	141	69-159
1330-20-7	Xylene (total)	75	82.9	111	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3876-BS	N0086918.D	1	07/17/15	RB	n/a	n/a	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25913-1MS	G0099498.D	1	07/13/15	AD	n/a	n/a	VG3660
FA25913-1MSD	G0099499.D	1	07/13/15	AD	n/a	n/a	VG3660
FA25913-1	G0099490.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Compound	FA25913-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		304	248	82	281	214	76	15	61-152/27
107-02-8	Acrolein	ND		304	275	91	281	229	81	18	48-178/37
107-13-1	Acrylonitrile	ND		304	308	101	281	261	93	17	66-134/26
71-43-2	Benzene	ND		60.7	55.1	91	56.3	46.7	83	17	76-126/26
108-86-1	Bromobenzene	ND		60.7	57.5	95	56.3	47.6	85	19	76-122/32
74-97-5	Bromochloromethane	ND		60.7	45.2	74*	56.3	39.1	70*	14	77-120/24
75-27-4	Bromodichloromethane	ND		60.7	54.8	90	56.3	46.3	82	17	74-130/25
75-25-2	Bromoform	ND		60.7	55.3	91	56.3	47.1	84	16	76-127/26
78-93-3	2-Butanone (MEK)	ND		304	280	92	281	251	89	11	75-137/25
104-51-8	n-Butylbenzene	ND		60.7	57.1	94	56.3	46.0	82	22	71-128/35
135-98-8	sec-Butylbenzene	ND		60.7	57.4	94	56.3	46.5	83	21	79-135/34
98-06-6	tert-Butylbenzene	ND		60.7	59.5	98	56.3	47.2	84	23	77-133/34
75-15-0	Carbon Disulfide	ND		60.7	47.7	79	56.3	42.1	75	12	72-122/29
56-23-5	Carbon Tetrachloride	ND		60.7	45.4	75*	56.3	39.2	70*	15	78-133/29
108-90-7	Chlorobenzene	ND		60.7	56.7	93	56.3	45.8	81	21	81-129/29
75-00-3	Chloroethane	ND		60.7	50.3	83	56.3	42.1	75	18	68-133/29
110-75-8	2-Chloroethyl Vinyl Ether	ND		304	337	111	281	303	108	11	45-159/26
67-66-3	Chloroform	ND		60.7	56.1	92	56.3	47.6	85	16	72-123/26
95-49-8	o-Chlorotoluene	ND		60.7	59.6	98	56.3	48.6	86	20	77-129/33
106-43-4	p-Chlorotoluene	ND		60.7	60.6	100	56.3	49.5	88	20	80-134/33
124-48-1	Dibromochloromethane	ND		60.7	58.0	95	56.3	48.0	85	19	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		60.7	54.9	90	56.3	46.0	82	18	70-137/29
106-93-4	1,2-Dibromoethane	ND		60.7	56.9	94	56.3	47.5	84	18	77-126/26
75-71-8	Dichlorodifluoromethane	ND		60.7	44.1	73	56.3	38.8	69	13	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		60.7	59.9	99	56.3	48.2	86	22	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		60.7	60.6	100	56.3	48.9	87	21	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		60.7	66.6	110	56.3	55.8	99	18	76-130/32
75-34-3	1,1-Dichloroethane	ND		60.7	51.5	85	56.3	44.4	79	15	73-125/27
107-06-2	1,2-Dichloroethane	ND		60.7	61.3	101	56.3	52.9	94	15	74-128/23
75-35-4	1,1-Dichloroethylene	ND		60.7	48.4	80*	56.3	42.6	76*	13	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		60.7	46.9	77	56.3	39.9	71*	16	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		60.7	47.6	78	56.3	41.0	73	15	70-127/27
78-87-5	1,2-Dichloropropane	ND		60.7	57.2	94	56.3	48.8	87	16	74-125/25
142-28-9	1,3-Dichloropropane	ND		60.7	58.7	97	56.3	47.0	84	22	76-122/26
594-20-7	2,2-Dichloropropane	ND		60.7	44.3	73*	56.3	36.9	66*	18	77-133/28
563-58-6	1,1-Dichloropropene	ND		60.7	56.5	93	56.3	46.8	83	19	75-130/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25913-1MS	G0099498.D	1	07/13/15	AD	n/a	n/a	VG3660
FA25913-1MSD	G0099499.D	1	07/13/15	AD	n/a	n/a	VG3660
FA25913-1	G0099490.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Compound	FA25913-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		60.7	57.2	94	56.3	51.1	91	11	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		60.7	64.8	107	56.3	53.3	95	19	75-131/28
100-41-4	Ethylbenzene	ND		60.7	57.3	94	56.3	47.1	84	20	77-123/31
87-68-3	Hexachlorobutadiene	ND		60.7	47.1	78	56.3	38.2	68*	21	74-136/38
591-78-6	2-Hexanone	ND		304	312	103	281	258	92	19	72-133/26
98-82-8	Isopropylbenzene	ND		60.7	63.4	104	56.3	50.4	90	23	80-136/32
99-87-6	p-Isopropyltoluene	ND		60.7	61.0	100	56.3	48.7	87	22	77-131/34
74-83-9	Methyl Bromide	ND		60.7	69.5	114	56.3	55.7	99	22	65-139/31
74-87-3	Methyl Chloride	ND		60.7	49.1	81	56.3	42.4	75	15	71-144/27
74-95-3	Methylene Bromide	ND		60.7	55.6	92	56.3	47.6	85	16	74-124/24
75-09-2	Methylene Chloride	ND		60.7	47.6	78	56.3	41.9	74	13	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		304	303	100	281	257	91	16	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND		60.7	55.3	91	56.3	44.8	80	21	77-120/24
91-20-3	Naphthalene	ND		60.7	69.0	114	56.3	57.7	103	18	79-129/33
103-65-1	n-Propylbenzene	ND		60.7	60.7	100	56.3	47.4	84	25	80-135/33
100-42-5	Styrene	ND		60.7	64.0	105	56.3	51.5	92	22	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		60.7	57.2	94	56.3	46.0	82	22	78-126/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		60.7	56.7	93	56.3	48.5	86	16	71-126/30
127-18-4	Tetrachloroethylene	ND		60.7	53.2	88	56.3	43.5	77*	20	79-130/31
108-88-3	Toluene	ND		60.7	57.8	95	56.3	47.4	84	20	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		60.7	56.9	94	56.3	46.7	83	20	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		60.7	63.4	104	56.3	49.3	88	25	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		60.7	58.7	97	56.3	49.4	88	17	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		60.7	61.3	101	56.3	49.3	88	22	74-124/28
79-01-6	Trichloroethylene	ND		60.7	52.4	86	56.3	45.2	80	15	75-128/27
75-69-4	Trichlorofluoromethane	ND		60.7	63.4	104	56.3	52.0	92	20	73-145/31
96-18-4	1,2,3-Trichloropropane	ND		60.7	60.4	99	56.3	49.4	88	20	74-127/27
95-63-6	1,2,4-Trimethylbenzene	ND		60.7	63.3	104	56.3	50.2	89	23	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND		60.7	58.9	97	56.3	49.1	87	18	73-122/33
108-05-4	Vinyl Acetate	ND		304	196	65	281	174	62	12	48-164/37
75-01-4	Vinyl Chloride	ND		60.7	53.7	88	56.3	44.7	79	18	76-141/27
	m,p-Xylene	ND		121	118	97	113	97.4	87	19	80-128/30
95-47-6	o-Xylene	ND		60.7	62.9	104	56.3	51.3	91	20	80-132/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25913-1MS	G0099498.D	1	07/13/15	AD	n/a	n/a	VG3660
FA25913-1MSD	G0099499.D	1	07/13/15	AD	n/a	n/a	VG3660
FA25913-1	G0099490.D	1	07/13/15	AD	n/a	n/a	VG3660

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1

CAS No.	Surrogate Recoveries	MS	MSD	FA25913-1	Limits
1868-53-7	Dibromofluoromethane	91%	95%	110%	75-124%
17060-07-0	1,2-Dichloroethane-D4	86%	94%	115%	72-135%
2037-26-5	Toluene-D8	105%	101%	99%	75-126%
460-00-4	4-Bromofluorobenzene	104%	101%	99%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25652-9RMS	N0086934.D	10	07/17/15	RB	n/a	n/a	VN3876
FA25652-9RMSD	N0086935.D	10	07/17/15	RB	n/a	n/a	VN3876
FA25652-9R	N0086926.D	1	07/17/15	RB	07/13/15	OP56799	VN3876
FA25652-9R [a]	N0086931.D	1	07/17/15	RB	07/13/15	OP56799	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Compound	FA25652-9R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	42.8 [b]		1250	1030	79	1250	1220	94	17	50-147/21
71-43-2	Benzene	8.4		250	255	99	250	237	91	7	81-122/14
75-27-4	Bromodichloromethane	1.0 U [b]		250	185	74*	250	176	70*	5	79-123/19
75-25-2	Bromoform	1.0 U [b]		250	269	108	250	265	106	1	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U [b]		1250	894	72	1250	904	72	1	56-143/18
75-15-0	Carbon Disulfide	2.0 U [b]		250	222	89	250	196	78	12	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U [b]		250	190	76	250	171	68*	11	76-136/23
108-90-7	Chlorobenzene	1.0 U [b]		250	242	97	250	233	93	4	82-124/14
75-00-3	Chloroethane	2.0 U [b]		250	229	92	250	202	81	13	62-144/20
67-66-3	Chloroform	1.0 U [b]		250	199	80	250	185	74*	7	80-124/15
124-48-1	Dibromochloromethane	1.0 U [b]		250	220	88	250	212	85	4	78-122/19
75-34-3	1,1-Dichloroethane	1.0 U [b]		250	214	86	250	195	78*	9	81-122/15
107-06-2	1,2-Dichloroethane	1.0 U [b]		250	161	64*	250	156	62*	3	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U [b]		250	186	74*	250	168	67*	10	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.0 U [b]		250	254	102	250	247	99	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0 U [b]		250	194	78	250	208	83	7	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U [b]		250	227	91	250	216	86	5	76-124/14
10061-01-5	cis-1,3-Dichloropropene	1.0 U [b]		250	221	88	250	217	87	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U [b]		250	221	88	250	217	87	2	80-120/22
100-41-4	Ethylbenzene	26.2		250	244	87	250	231	82	5	81-121/14
591-78-6	2-Hexanone	10 U [b]		1250	990	79	1250	1010	81	2	61-129/18
74-83-9	Methyl Bromide	2.0 U [b]		250	235	94	250	214	86	9	59-143/19
74-87-3	Methyl Chloride	2.0 U [b]		250	213	85	250	193	77	10	50-159/19
75-09-2	Methylene Chloride	5.0 U [b]		250	198	79	250	201	80	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U [b]		1250	979	78	1250	974	78	1	66-122/16
100-42-5	Styrene	1.0 U [b]		250	240	96	250	229	92	5	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U [b]		250	188	75	250	174	70*	8	72-120/14
127-18-4	Tetrachloroethylene	2.1 [b]		250	340	135	250	319	127	6	76-135/16
108-88-3	Toluene	2.0		250	249	99	250	234	93	6	80-120/14
71-55-6	1,1,1-Trichloroethane	1.0 U [b]		250	186	74*	250	169	68*	10	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U [b]		250	239	96	250	239	96	0	76-119/14
79-01-6	Trichloroethylene	1.0 U [b]		250	240	96	250	232	93	3	81-126/15
75-01-4	Vinyl Chloride	1.0 U [b]		250	233	93	250	212	85	9	69-159/18
1330-20-7	Xylene (total)	41.8		750	722	91	750	681	85	6	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25652-9RMS	N0086934.D	10	07/17/15	RB	n/a	n/a	VN3876
FA25652-9RMSD	N0086935.D	10	07/17/15	RB	n/a	n/a	VN3876
FA25652-9R	N0086926.D	1	07/17/15	RB	07/13/15	OP56799	VN3876
FA25652-9R [a]	N0086931.D	1	07/17/15	RB	07/13/15	OP56799	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Surrogate Recoveries	MS	MSD	FA25652-9R	FA25652-9R	Limits
1868-53-7	Dibromofluoromethane	89%	89%	87%	86%	83-118%
17060-07-0	1,2-Dichloroethane-D4	61%*	62%*	67%* [c]	63%* [c]	79-125%
2037-26-5	Toluene-D8	98%	99%	97%	96%	85-112%
460-00-4	4-Bromofluorobenzene	85%	85%	93%	86%	83-118%

(a) Confirmation run for internal standard areas.
(b) Result is from Run #2.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25652-8RDUP	N0086925.D	1	07/17/15	RB	n/a	n/a	VN3876
FA25652-8R	N0086924.D	1	07/17/15	RB	07/13/15	OP56799	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Compound	FA25652-8R ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	40.0		58.7		38*	21
71-43-2	Benzene	8.4		6.5		26*	14
75-27-4	Bromodichloromethane	1.0 U		ND		nc	19
75-25-2	Bromoform	1.0 U		ND		nc	21
78-93-3	2-Butanone (MEK)	5.0 U		ND		nc	18
75-15-0	Carbon Disulfide	2.0 U		ND		nc	23
56-23-5	Carbon Tetrachloride	1.0 U		ND		nc	23
108-90-7	Chlorobenzene	1.0 U		ND		nc	14
75-00-3	Chloroethane	2.0 U		ND		nc	20
67-66-3	Chloroform	1.0 U		ND		nc	15
124-48-1	Dibromochloromethane	1.0 U		ND		nc	19
75-34-3	1,1-Dichloroethane	1.0 U		ND		nc	15
107-06-2	1,2-Dichloroethane	1.0 U		ND		nc	14
75-35-4	1,1-Dichloroethylene	1.0 U		ND		nc	18
156-59-2	cis-1,2-Dichloroethylene	1.0 U		ND		nc	15
156-60-5	trans-1,2-Dichloroethylene	1.0 U		ND		nc	17
78-87-5	1,2-Dichloropropane	1.0 U		ND		nc	14
10061-01-5	cis-1,3-Dichloropropene	1.0 U		ND		nc	23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		ND		nc	22
100-41-4	Ethylbenzene	10.2		13.8		30*	14
591-78-6	2-Hexanone	10 U		ND		nc	18
74-83-9	Methyl Bromide	2.0 U		ND		nc	19
74-87-3	Methyl Chloride	2.0 U		ND		nc	19
75-09-2	Methylene Chloride	5.0 U		ND		nc	16
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		ND		nc	16
100-42-5	Styrene	1.0 U		ND		nc	23
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		ND		nc	14
127-18-4	Tetrachloroethylene	1.0 U		1.0		200*	16
108-88-3	Toluene	1.6		1.9		17*	14
71-55-6	1,1,1-Trichloroethane	1.0 U		ND		nc	16
79-00-5	1,1,2-Trichloroethane	1.0 U		ND		nc	14
79-01-6	Trichloroethylene	1.0 U		ND		nc	15
75-01-4	Vinyl Chloride	1.0 U		ND		nc	18
1330-20-7	Xylene (total)	7.0		46.2		147*	15

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA25913
Account: ERMNCR ERM
Project: ECI Whitsett; 1239 Rock Creek Dairy Rd, Whitsett, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25652-8RDUP	N0086925.D	1	07/17/15	RB	n/a	n/a	VN3876
FA25652-8R	N0086924.D	1	07/17/15	RB	07/13/15	OP56799	VN3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA25913-1L

CAS No.	Surrogate Recoveries	DUP	FA25652-8R	Limits
1868-53-7	Dibromofluoromethane	94%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	75%*	103%	79-125%
2037-26-5	Toluene-D8	97%	94%	85-112%
460-00-4	4-Bromofluorobenzene	96%	103%	83-118%

(a) Associated ICV outside control limits.

* = Outside of Control Limits.