5TH GROUNDWATER REMEDIAL ACTION PERFORMANCE MONITORING REPORT

FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NORTH CAROLINA, 27576
LONGITUDE W78°17'02", LATITUDE N35°31'33"
NONCD 0002853

Prepared for:
Eaton
1000 Eaton Boulevard
Cleveland, OH 44122

Prepared by:
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Solutions-IES Project No. 2013.0014.EATN

October 15, 2015

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Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 041514 ENGINEER BILGEN YUNCU

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Senior Consultant

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October 15, 2015

Mr. Kim Caulk, P.G.
Inactive Hazardous Sites Branch – REC Program
NCDENR Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: **October 2015 Quarterly Status Report (5th Remedial Action Progress Report and First Annual Post-injection and Monitored Natural Attenuation Groundwater Performance Monitoring Report)**
Eaton Corporation Former Facility
1100 East Preston Street
NCDENR Site ID No. NONCD 0002853
Solutions-IES Project No. 2013.0014.EATN

Dear Mr. Caulk,

Solutions-IES, Inc. (SIES), on behalf of Eaton Corporation (Eaton), has prepared this Quarterly Status Report for the former Eaton facility located at 1100 East Preston Street, Selma, NC. The site is currently occupied by Johnston County Industries, Inc. (JCI). This site was accepted into the Registered Environmental Consultant (REC) program on February 10, 2009. The Remedial Investigation Work Plan (RI WP) dated February 17, 2009, was certified by the Registered Site Manager (RSM) and submitted to NCDENR. Two RI WP amendments were subsequently submitted dated June 25, 2010, and January 4, 2011. The RI Report dated February 8, 2012, was certified by the RSM on February 9, 2012. The Groundwater Remedial Action Plan (RAP) dated June 3, 2013, was certified complete by the RSM on August 13, 2013. The Pre-Construction Report dated September 16, 2013, was certified complete by the RSM on September 17, 2013.

The RAP selected remedy of *in situ* bioremediation was initiated on October 21, 2013, with the injection of a colloidal buffer (CoBupH-Mg), followed by an emulsified vegetable oil (EVO) product (EOS XR), into 60 injection wells (Phase 1)[1]. The Phase 2 injection of CoBupH-Mg followed by EOS XR into the remaining 60 injection wells was conducted between January 20, 2014, and February 14, 2014. Construction Completion Report No. 1 dated January 2014, described injection into one-half of the injection network (Phase 1). The report was certified by the RSM on January 15, 2014. Construction Completion Report No. 2 dated April 2014, described injection into the second half of the injection network (Phase 2), included the Construction Completion Certification Work Phase Completion Form (WPC-V) for the site, and was certified by the RSM on April 9, 2014.

SIES has prepared and attached the 5th Groundwater Remedial Action Performance Monitoring Report summarizing the Phase 1 21-month/Phase 2 18-month post-injection groundwater sampling event and

[1] CoBupH-Mg and EOS XR were purchased from EOS Remediation, LLC of Raleigh, NC.

evaluating the remedy performance. The next groundwater sampling event (Phase 1 27-month/Phase 2 24-month post-injection) is scheduled for January 2016. The results of this sampling event will be submitted with the next remedial action progress report that will be submitted by the end of April 2016.

Relative to groundwater, all documents to date have met the milestones identified in the Administrative Agreement and 15A NCAC 13C .0302(l)(1-4). Relative to soil, work is progressing to evaluate the amount of soil that has been impacted and approaches to achieve the mandatory work phase completion deadlines specified in the Administrative Agreement and 15A NCAC 13C .0302(h). Remediation Party and RSM certifications for this submittal are included in **Attachment 1**.

If you have any questions or need any additional information, please feel free to contact me at (919) 873-1060.

Yours truly,

Solutions-IES, Inc.

Bilgen Yuncu, Ph.D., P.E.
Project Manager

Attachment 1 – Certification Statements
Attachment 2 – 5th Groundwater Remedial Action Performance Monitoring Report

cc: Ms. Karen Souza, P.G., Allegheny Environmental Services, Inc.
Mr. Jeffery P. Allen, P.G, Eaton Corporation
Mr. Bill Sharek, Johnston County Industries

ATTACHMENT 1

CERTIFICATION STATEMENTS

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2

IHSB SITE NAME NONCD 0002853 Former Eaton Selma

DATE & NAME OF DOCUMENT 5th Groundwater Remedial Action Performance Monitoring Report October 15, 2015

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."

Jeffrey Allen
Name of Remediating Party

Signature of Remediating Party

10-15-2015
Date

NOTARIZATION

Ohio (Enter State)

Summit **COUNTY**

I, Cathryn Block, a Notary Public of said County and State, do hereby certify that Jeffrey Allen did personally appear and sign before me this day, produced proper identification in the form of drivers license, 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 15th day of October, 2015.

Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 11/22/2020

NOTARIAL SEAL STATE OF OHIO

CATHRYN BLOCK
NOTARY PUBLIC
STATE OF OHIO
Recorded in
Summit County
My Comm. Exp. 11/22/2020

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

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME NONCD 0002853 Former Eaton Selma
DATE & NAME OF DOCUMENT 5th Groundwater Remedial Action Performance Monitoring Report October 15, 2015
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.

M. Tony Lieberman
Name of Registered Site Manager

M. Tony Lieberman
Signature of Registered Site Manager

10/15/15
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."

M. Tony Lieberman
Name of Registered Site Manager

M. Tony Lieberman
Signature of Registered Site Manager

10/15/15
Date

NOTARIZATION

North Carolina (Enter State)

Wake **COUNTY**

I, Debra A. Tabron, a Notary Public of said County and State, do hereby certify that M. Tony Lieberman did personally appear and sign before me this day, produced proper identification in the form of Driver's License, 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 15th day of October, 2015

Debra A. Tabron
Notary Public (signature)

(OFFICIAL SEAL)
DEBRA A. TABRON
Notary Public
Wake County
NORTH CAROLINA

My commission expires: 8-2-2020.

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

ATTACHMENT 2

5TH GROUNDWATER REMEDIAL ACTION PERFORMANCE MONITORING REPORT

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FORMER EATON CORPORATION FACILITY
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Senior Consultant

Solutions-IES
Industrial & Environmental Services

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1.0 INTRODUCTION

This *Groundwater Performance Monitoring Report* has been prepared for the former Eaton facility located at 1100 East Preston Street in Selma, Johnston County, North Carolina, 27576 (Eaton Selma). The former Eaton Selma facility is located about 0.5 miles northeast of the intersection of US Highway 95 and NC Highway 70 (**Figure 1**). The site is currently occupied by Johnston County Industries, Inc. (JCI). Remedial action at the site is being performed under the Registered Environmental Consultant (REC) Program within the Inactive Hazardous Sites Branch (IHSB) of the Superfund Section of the North Carolina Department of Environment and Natural Resources (NCDENR).[1]

The *Groundwater Remedial Action Plan* (RAP) for the site dated June 3, 2013, and submitted on June 7, 2013, passed public notice without comment and was certified complete on August 13, 2013 (SIES, 2013). The *Groundwater RAP* recommended implementation of *in situ* bioremediation in groundwater to stimulate biodegradation of chlorinated volatile organic compounds (CVOCs) in the areas of highest impact and Monitored Natural Attenuation (MNA) to control migration in downgradient and side-gradient, less heavily impacted, areas of the plume. The *Pre-Construction Report* dated September 16, 2013, and certified on September 17, 2013, presented the final design of the remedy.

The remedy implementation included well installation beginning on September 16, 2013. Phase 1 (western portion of site) injection activities were initiated on October 21, 2013, with the injection of a colloidal buffer (CoBupH-Mg), followed by an emulsified vegetable oil (EVO) product (EOS XR), into 60 injection wells[2]. The Phase 2 (eastern portion of site) injection of CoBupH-Mg followed by EOS XR into the remaining 60 injection wells was conducted between January 20, 2014, and February 14, 2014. Construction Completion Report No. 1 dated January 2014, described injection into one-half of the injection network (Phase 1). The report was certified by the RSM on January 15, 2014. Construction Completion Report No. 2 dated April 2014, described injection into the second half of the injection network (Phase 2), included the Construction Completion Certification Work Phase Completion Form (WPC-V) for the site, and was certified by the RSM on April 9, 2014.

Post-injection monitoring and reporting events are summarized in the following table:

Chronology of Field Events and Monitoring Reports			
Field Event Date	**Phase 1**	**Phase 2**	**Report Title/Date**
October 2013	EVO & CoBupH Injections		*Construction Completion Report No. 1*; January 20, 2014
Jan-Feb 2014	3-month sampling	EVO & CoBupH Injections	*Construction Completion Report No. 2*; April 9, 2014

[1] The NCDENR changed its name to NC Department of Environmental Quality (DEQ), effective September 18, 2015.
[2] CoBupH-Mg and EOS XR were purchased from EOS Remediation, LLC of Raleigh, NC.

Chronology of Field Events and Monitoring Reports			
Field Event Date	**Phase 1**	**Phase 2**	**Report Title/Date**
April 2014	6-month sampling	3-month sampling	*1st Remedial Action Progress Report for Groundwater*; June 30, 2014
May 2014	Bioaugmentation (BAC-9™[3])		
July 2014	9-month sampling	6-month sampling	*2nd Remedial Action Progress Report for Groundwater*; October 1, 2014
November 2014	12-month sampling	9-month sampling	*3rd Remedial Action Progress Report for Groundwater*; January 21, 2105
January 2015	15-month sampling	12-month sampling	*4th Remedial Action Progress Report and First Annual Post-Injection/MNA Groundwater Performance Monitoring Report*; April 9, 2015
July 2015	21-month sampling	18-month sampling	*Groundwater Performance Monitoring Report, October 15, 2015*

1.1 SUMMARY OF GROUNDWATER REMEDIAL ACTION REQUIREMENTS

The *Phase II Remedial Investigation Report* dated February 8, 2012 (Phase II RI; SIES, 2012), specified tetrachloroethene (PCE), trichloroethene (TCE) and 1,1-dichloroethene (1,1-DCE) as the primary CVOCs of concern in groundwater. Enhanced reductive dechlorination (ERD) using emulsified oil, time-release buffer, and bioaugmentation, along with MNA, were proposed in the *Groundwater RAP* as a combined groundwater remedy.

The remedial goal for the site is to ultimately reduce the concentrations of primary contaminants of concern (COCs) to levels below the 15A NCAC 2L .0202 groundwater standards (NC 2L Standards). However, biological processes, including ERD and MNA, produce degradation by-products that must also eventually be degraded. While the primary goal is to reduce the primary CVOC concentrations to below the NC 2L Standards, the daughter-products of PCE, TCE and 1,1-DCE biodegradation, including *cis*-1,2-dichloroethene [*c*DCE] and vinyl chloride [VC], were also monitored as indicators of ongoing biological processes.

The *Groundwater RAP* required injection of a colloidal buffer, EVO, and bioaugmentation cultures to stimulate ERD in the area of highest impact, along the stormwater conveyance system, and along East Preston Street. The injections targeted two zones within the sand and gravel layer: Zone A, screened from 10 to 20 feet below ground surface (ft bgs) and Zone B, screened from 23 to 30 ft bgs. The

[3] BAC-9™ is a microbial consortium product purchased from EOS Remediation, LLC of Raleigh, NC. It includes high concentrations of *Dehalococcoides sp*., known to promote complete reductive dechlorination of PCE to ethene.

Groundwater RAP also required sampling of a performance monitoring well network until CVOC concentrations were below the NC 2L Standard. The following 16 monitoring wells were established as the performance monitoring well network and are shown on **Figure 2**:

- Shallow monitoring wells: MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-13, MW-16, MW-17, MW-18, MW-19 and MW-20
- Deep monitoring wells: MW-14 and MW-15

MW-7 was added to the monitoring program during the first post-injection monitoring event to provide data for COC concentrations in groundwater COC data to the north of the treated area of the site (**Figure 2)**.

2.0 GROUNDWATER SAMPLING PROCEDURES AND RESULTS

July 2015 marked the 6th groundwater sampling event since completion of Phase 1 colloidal buffer and EVO injection activities. Solutions-IES, Inc. (SIES) conducted monitoring activities on July 21 through 23, 2015. Groundwater sampling logs from this event are provided in **Appendix A**.

2.1 GROUNDWATER ELEVATIONS

Depth-to-water (DTW) measurements were recorded on July 21, 2015 in 17 shallow monitoring wells, two deep monitoring wells, and six piezometers across the site. Two injection wells (IW-2A and IW-42B) used in the Phase I Bioremediation Area were also gauged and sampled as part of concurrent remedial design optimization testing being conducted on this site. The results from sampling these two wells and the additional remedial design optimization data will be provided in a separate report. The DTW was measured from the established top-of-casing measuring point on the polyvinyl chloride (PVC) well casing and the measurements were converted to an elevation in feet above mean sea level (ft amsl). Using the ground surface elevation at each well, the depth below ground surface (bgs) of groundwater was also calculated.

The groundwater elevations ranged from 165.64 ft amsl (MW-1) to 165.97 ft amsl (MW-18) in the shallow monitoring wells, and from 165.72 ft amsl (MW-15) to 168.07 ft amsl (MW-14) in the deep monitoring wells. Depth to groundwater ranged from 4.76 ft bgs (MW-11) to 7.19 ft bgs (MW-9) in the shallow monitoring wells. Additionally, groundwater elevations ranged from 167.56 ft amsl (PZ-2A) to 170.35 ft amsl (PZ-2B) in piezometers at the site. A summary of groundwater elevation data for the July 2015 event as well as past events is provided in **Table 1**. The DTW measurements in the two injection wells were converted to elevations using top-of-casing survey information available in prior reports. The elevation in IW-2A was used in the interpretation of groundwater flow, but IW-42B was not.

Groundwater elevation data collected during the pre- and post-injection sampling events provided further evidence that the shallow aquifer at the Eaton Selma site behaves as a semi-confined aquifer. Water levels measured in monitoring wells screened in semi-confined or confined aquifers can fluctuate by up to 0.5 ft due to barometric pressure changes in a 24-hour period. Shallow groundwater can also be influenced by seasonal changes and responds to precipitation events. At the Eaton Selma site, depth to groundwater has historically ranged from ground surface to 11 ft bgs. In addition, water levels typically vary by 0.2 to 0.5 ft across the site. As a result of these site conditions, it is difficult to reliably interpret the potentiometric surface with the available information from any one event. To demonstrate this variability, estimates of the potentiometric surface and predominant groundwater flow direction from pre-injection measurements in October 2013, and three post-injection events (April and July 2014 and January 2015) are depicted on **Figure 3.** The interpretation of the July 2015 groundwater elevation data is shown on **Figure 4**. The five maps representing the 21-month period illustrate the difficulty with developing a clear and consistent understanding of groundwater flow patterns at the site.

2.2 GROUNDWATER SAMPLING PROCEDURES

On July 21 through July 23, 2015, groundwater samples were collected from 15 shallow (MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-11, MW-13, MW-16, MW-17, MW-18, MW-19 and MW-20) and two deep (MW-14 and MW-15) monitoring wells in accordance with procedures referenced in the *Groundwater RAP* (SIES, 2013). Each well was purged prior to sampling using a peristaltic pump. Purging continued at an approximate rate less than or equal to the groundwater recharge rate, until the field parameters of pH (± 0.1 standard unit [SU]), specific conductance (± 5%), and turbidity (stable or <10 nephelometric turbidity units [NTU]) stabilized. Temperature, dissolved oxygen (DO), and oxidation-reduction potential (ORP) measurements were also recorded. Field parameters for the July 2015 and previous events are summarized in **Table 2**.

Groundwater samples were collected directly into laboratory-supplied glassware, packaged, placed on ice in coolers, and delivered via courier under chain-of-custody procedures to CompuChem in Cary, NC, a North Carolina-certified analytical laboratory for analysis of the following parameters:

- VOCs by Environmental Protection Agency (EPA) Method 8260B
- Nitrate and sulfate by Method IC300
- Ferrous iron by Method SM3500-Fe-B
- Total iron and magnesium by EPA Method 6010C
- Methane, ethane, ethane and acetylene by Method GC-RSK 175
- Total Organic Carbon (TOC) by SM 5310B
- Alkalinity by EPA Method 310.2
- Sulfide by Method SM4500S-2-F

A subset of five monitoring wells (MW-2, MW-4, MW-16, MW-18 and MW-19) was also analyzed for

molecular biological tools (MBTs) by CENSUS performed by Microbial Insights, Inc. in Knoxville, TN, as well as volatile fatty acids (VFAs) by AM23G performed by Microseeps Inc. in Pittsburgh, PA.

2.3 GROUNDWATER SAMPLING RESULTS

Copies of the laboratory analytical reports for this groundwater sampling event are provided in **Appendix B**. The results of the field-measured parameters and laboratory analyses are discussed below. The field parameters for the July 2015 event are summarized in **Table 2**, the laboratory analytical data for VOCs are provided in **Table 3**, the natural attenuation parameters are summarized in **Table 4**, and MBT and VFA data are summarized in **Table 5**.

As discussed in Section 1.0, substrate injections were conducted in two phases. Bioaugmentation was conducted during a single event after all substrate injections were complete. An injection well layout, showing the locations of the Phase 1 and Phase 2 injection wells is included as **Figure 5.** The monitoring wells are grouped on the tables (except **Table 1**) according to their proximity to either the Phase 1 or Phase 2 injection areas, or their location as compliance wells within the overall monitoring well network as shown below:

MONITORING WELL NETWORK	
Phase 1 Injection Area	MW-2 and MW-16
Phase 2 Injection Area	MW-3, MW-4, MW-8 and MW-18
Shallow Compliance Wells	MW-1, MW-5, MW-6, MW-7, MW-9, MW-11, MW-13, MW-17, MW-19 and MW-20
Deep Compliance Wells	MW-14 and MW-15

Changes observed in these monitoring wells are presumed to be a result of migration of buffer, EVO or bacteria from the overall injection zone, and not a result of direct injection into the monitoring wells.

2.3.1 Chlorinated Solvents Concentrations

PCE was detected above the laboratory method detection limit (MDL) in:

- One Phase 1 injection shallow monitoring well (MW-2) at aconcentration of 5.7 µg/L (J)[4], which also exceeds the NC 2L Standard of 0.7 µg/L. PCE was not reported above the NC 2L Standard in MW-16, however, exceedances may be masked by elevated reporting limits.
- All Phase 2 injection shallow monitoring wells. Concentrations ranged from 3.0 µg/L (J) in MW-8 to 120,000 µg/L (MW-18). All reported concentrations are above the NC 2L Standard.
- All shallow compliance monitoring wells, with the exception of MW-17. Potential NC 2L Standard exceedances may be masked by elevated reporting limits in MW-17. PCE was detected above the MDL, but below the NC 2L Standard of 3 µg/L in well MW-11 at 0.19 µg/L (J).
- Both compliance deep monitoring wells (MW-14 and MW-15) at estimated concentrations below the NC 2L Standard.

[4] (J) = Laboratory estimated concentration below the Reporting Limit, but above the Method Detection Limit

TCE was detected above the laboratory MDL in:

- Phase 1 injection shallow monitoring well MW-2 at 12 µg/L (J). TCE was not reported above the NC 2L Standard in MW-16, however, exceedances may be masked by elevated reporting limits.
- All Phase 2 injection shallow monitoring wells. The highest reported TCE concentration was in MW-18 (18,000 µg/L).
- Compliance shallow monitoring wells MW-1, MW-5, MW-7, MW-13, MW-9 and MW-20. TCE concentrations in these six wells ranged from 0.37 µg/L (J) in MW-5 to 150 µg/L in MW-20; concentrations exceeded the NC 2L standard in MW-1, MW-7, MW-13 and MW-20. TCE was not reported above the NC 2L Standard in MW-17, however, exceedances may be masked by elevated reporting limits.
- None of the deep compliance monitoring wells.

*c*DCE, a metabolic daughter product of reductive dechlorination of TCE, was detected above the laboratory MDL in:

- Both Phase 1 injection shallow monitoring wells at concentrations of 2,900 µg/L (MW-2) and 3,200 (MW-16).
- Three Phase 2 injection shallow monitoring wells. However, the only exceedance of the NC 2L Standard of 70 µg/L was in MW-8 (620 µg/L). *c*DCE was not reported above the NC 2L Standard in MW-18, however, exceedances may be masked by elevated reporting limits.
- Seven compliance shallow monitoring wells. Reported concentrations in MW-17 and MW-20 were above the NC 2L Standard for this compound (3,100 µg/L and 800 µg/L, respectively).
- Compliance deep monitoring well MW-15 at 0.039 µg/L (J), which is below the NC 2L Standard for this constituent.

VC is a breakdown product of *c*DCE and represents further transformation of the parent compounds. VC is also a breakdown product of biodegradation of 1,1-DCE. VC was detected above the laboratory MDL in:

- Both Phase 1 injection shallow monitoring wells, which also exceed the NC 2L Standard of 0.03 µg/L for VC. The highest concentration was reported in MW-2 (66 µg/L).
- Phase 2 injection shallow monitoring well MW-8 at a concentration of 13 µg/L, which also exceeds the NC 2L Standard. However, the reporting limit is above the NC 2L Standard for the remaining Phase 2 injection shallow monitoring wells.
- Compliance shallow monitoring wells MW-17 and MW-20 at concentrations of 38 µg/L (J) and 6.2 µg/L (J), respectively. However, the reporting limit is above the NC 2L Standard for the remaining compliance shallow monitoring wells.
- No compliance deep monitoring wells. However, the reporting limit is above the NC 2L Standard for all compliance deep monitoring wells.

1,1-DCE was detected above the laboratory MDL in:

- Both Phase 1 injection shallow monitoring wells. The concentration in MW-16 (520 µg/L) exceeds the NC 2L Standard of 350 µg/L for this compound. The 1,1-DCE concentration in MW-2 is below the NC 2L Standard.
- All Phase 2 injection shallow monitoring wells, two of which were above the NC 2L Standard. The highest concentration was reported in MW-18 (16,000 µg/L).
- Eight compliance shallow monitoring wells ranging from 3.7 to 320 µg/L, which is below the NC 2L Standard.
- None of the compliance deep monitoring wells.

Figure 6 compares the estimated extent of PCE exceedances in shallow groundwater pre-injection (October 2013) and post-injection (July 2014, November 2014, and January 2015) within the area of highest impact, along the stormwater conveyance system, and along East Preston Street where the Phase 1 and Phase 2 injection wells were concentrated. **Figure 7** illustrates the estimated extent of PCE exceedances in shallow groundwater during July 2015.

2.3.2 Field Measurements

pH. The optimum range for biological processes, particularly related to reductive dechlorination, is typically between pH 6 and 8 Standard Units (SU). The pH in Phase 1 injection shallow monitoring wells was 5.9 and 6.3 SU (MW-16 and MW-2, respectively). In contrast, the pH in Phase 2 injection shallow monitoring wells ranged from 3.4 to 4.3 SU, with the exception of MW-8 which was 5.7 SU. The pH in compliance shallow monitoring wells ranged from 3.9 to 6.4 SU. The pH in compliance deep monitoring well MW-15 was 6.6 SU while the pH of MW-14 was 11.3 SU, which is similar to pre-injection pH readings from this well; the cause of elevated pH in MW-14 is unknown.

Temperature. The groundwater temperature measurements for the July 2015 sampling event ranged from 18.0˚C to 25.3˚C with no discernible difference between the shallow and deep monitoring wells.

ORP. ORP is a measure of the electron activity of the groundwater. Negative or near-negative ORP values indicate a reducing environment more conducive to reductive dechlorination. With the exception of wells MW-4 and MW-18, ORP measurements for the July 2015 sampling event ranged from -137 to -64 millivolts (mV) in the Phase 1 and Phase 2 injection shallow monitoring wells. ORP measurements in MW-4 and MW-18 were +262 and +192 mV, respectively. In compliance shallow and deep monitoring wells, ORP measurements ranged from -127 to +50 mV with the exception of MW-5 and MW-7 which were +182 and +170 mV, respectively.

DO. Reductive dechlorination proceeds optimally under anaerobic conditions (USEPA, 1998); as such, DO concentrations <0.5 milligrams per liter (mg/L) are favorable for biodegradation of chlorinated solvents. Of the 17 monitoring wells sampled in July 2015, 11 reported DO concentrations equal to or less than 0.5 mg/L.

2.3.3 Biogeochemical Laboratory Parameters

TOC and VFAs. Increases in TOC can result from the injection of organic substrate and the migration of soluble breakdown products of the substrate away from the injections toward monitoring wells. VFAs result from the fermentation of EVO in the substrate.

One- to two-fold order-of-magnitude increases in TOC concentrations were measureable within 2 to 6 months post-injection in both Phase 1 injection monitoring wells and in three of four Phase 2 injection monitoring wells. In addition, MW-17 and MW-20, designated as compliance wells south of the area where the Phase 1 injections were placed, and MW-19, installed as a compliance well south of the Phase 2 injection area, also showed impact. The July 2015 TOC data suggest some decreases in TOC concentrations, down from the highest recorded concentrations in MW-2, MW-3, MW-4, MW-17, MW-19 and MW-20. There has been little change in MW-16 and, while there was no immediate evidence that MW-18 was impacted by the nearby Phase 2 injections, the initial TOC concentration in this well has decreased to below pre-injection levels. Despite the decreases, the concentrations of residual TOC in wells influenced by the injections remain sufficient to continue supporting ERD.

Five monitoring wells (MW-2, MW-4, MW-16, MW-18, and MW-19) were analyzed for VFAs. Essentially no VFAs were detectable in the groundwater before injection. The highest concentrations of total VFAs were observed in Phase 1 injection shallow monitoring wells (MW-2 [1,049 mg/L] and MW-16 [755 mg/L]) approximately 9 months post Phase 1 injection (July 2014). The largest proportion of the concentrations of VFAs is attributable to the formation of acetic and propionic acids, which are important electron donors in the reductive dechlorination process. By July 2015 (21-months post-injection), the VFA concentration in MW-2 had decreased to 208.7 mg/L, but had not decreased at all in MW-16 (800 mg/L).

By contrast, low total VFA concentrations in Phase 2 injection shallow monitoring wells MW-4 and MW-18 have continued to decrease toward background levels, MW-19, which showed minimal impact by TOC, reported an increase in VFAs in July 2015.

Sulfate and Iron. In October 2013 and prior to initiation of injection activities, SIES performed a baseline sampling event that included groundwater sample analysis for sulfate. The data reported widespread elevated sulfate, with nine of 16 monitoring wells exceeding the NC 2L Standard of 250 mg/L. Sulfate was not analyzed during earlier investigation steps and the maximum concentrations of sulfate within the various areas of the site were reported as follows: Phase 1 injection shallow monitoring well MW-16 at 610 mg/L; Phase 2 injection shallow monitoring well MW-4 at 3,600 mg/L; and compliance shallow monitoring well MW-19 at 3,300 mg/L. Overall, the highest sulfate concentrations were located on the eastern portion of the site.

In an attempt to identify the source of the elevated sulfate, SIES reviewed historic information from the Phase II RI Report (SIES, 2012) and noted that the Eaton Selma site is located to the west/southwest of the former Gurley Pesticide Burial Site (Gurley Site, EPA ID: NCD986172526), a CERCLA-regulated site. ExxonMobil Environmental Services Company (EMES) is a Responsible Party for the Gurley Site, which is currently owned by NSEW Corporation (NSEW). The Gurley Site is the location of both a former

phosphate fertilizer production facility and an agricultural chemical distribution facility and includes two major areas of interest; the Pesticide Burial Area (PBA) and the Acid Plant Area (APA). According to the Gurley Site *Record of Decision* (*ROD*) (USEPA, 2006), in many phosphate/fertilizer manufacturing plants, ground-up phosphate rock and sulfuric acid were mixed in reaction vessels to produce phosphoric acid, the building block for phosphate fertilizers. The acid chambers used in the fertilizer production process were periodically cleaned. Wash down water containing acid and soluble lead was flushed onto the ground surface where it could percolate downward into groundwater. The Eaton Selma site is topographically downgradient of the Gurley Site, and, therefore, the elevated sulfate (and low pH) observed at the Eaton Selma site is believed to be from historic activities at the Gurley Site.

During reductive dechlorination, sulfate serves as a terminal electron acceptor and thus competes with other electron acceptors (i.e., chlorinated solvents) for introduced organic carbon. Therefore, the presence of elevated sulfate would be expected to slow or inhibit the bioactivity targeting the CVOCs.

Post-injection sulfate concentrations remain elevated in some monitoring wells, with concentrations in five of 16 monitoring wells still exceeding the NC 2L Standard. As expected, where large increases in TOC are observed in a monitoring well, decreases in sulfate have been observed (e.g., MW-2, MW-16, MW-8, and MW-17). The five monitoring wells with remaining elevated sulfate are MW-3, MW-4 and MW-18 (1,050 to 4,590 mg/L) in the Phase 2 injection area, and MW-5 (1,360 mg/L) and MW-19 (4,270 mg/L) among the shallow compliance monitoring wells. All of these monitoring wells are located on the eastern portion of the site, across East Preston Street and downgradient of the Gurley Site.

Naturally occurring iron-containing minerals can be the source of ferric iron (Fe^{+3}), which can serve as a terminal electron acceptor for iron-reducing bacteria to metabolize both natural and introduced organic carbon. The result is the formation of reducing conditions and the transformation of Fe^{+3} to ferrous iron (Fe^{+2}). This is evidenced by decreases in Fe^{+3} and increase in Fe^{+2}. In the shallow monitoring wells where the presence of organic substrate is confirmed by increased TOC concentrations (MW-2, MW-16, MW-8, MW-17, MW-19 and MW-20), ferrous iron concentrations in January 2015 were at least two orders-of-magnitude higher than baseline pre-injection concentrations in October 2013. There were no similar changes in wells which do not yet appear to be influenced by increases in TOC. Although total iron was not analyzed during the July 2015 sampling event, no significant changes in Fe^{+2} concentrations were observed suggesting minimal changes in Fe^{+3} concentrations compared to previous data.

Alkalinity. Alkalinity is the capacity of the aquifer to neutralize acid. CoBupH-Mg buffered substrate was added at the time of injections in an attempt to increase alkalinity in the groundwater and help mitigate the sitewide low pH. The baseline alkalinity in shallow groundwater across the site measured in October

2013 (before any treatment), ranged from less than the laboratory MDL of 0.59 mg/L to 50 mg/L; the baseline alkalinity in the deeper groundwater zone ranged from 140 to 170 mg/L.

In Phase 1 injection shallow monitoring wells MW-2 and MW-16, alkalinity increased by at least an order of magnitude after injection and has remained elevated during the subsequent performance monitoring period. Alkalinity is currently 701 mg/L in MW-2 and 856 mg/L in MW-16. In the Phase 2 injection shallow monitoring well MW-8, alkalinity has increased from less than 0.59 mg/L to the current concentration of 496 mg/L. A large increase in alkalinity was also observed in shallow compliance monitoring wells MW-17 and MW-20, which increased at least two orders of magnitude.

Methane. Methanogenesis results from the anaerobic degradation of organic carbon under strongly reducing conditions. Baseline pre-injection methane concentrations were relatively low and ranged from less than the laboratory MDL of 0.435 µg/L to 33.4 µg/L across the site. Methane concentrations have increased substantially in the Phase 1 injection shallow monitoring wells to the current concentrations of 660 µg/L in MW-2 and 1,600 µg/L in MW-16). Methane is currently 880 µg/L in Phase 2 injection zone monitoring well MW-8. Methane has currently increased to 160 µg/L in compliance well MW-17 and 450 µg/L in MW-20. Conversely, the remaining Phase 2 injection shallow monitoring wells as well as compliance monitoring wells have shown little to no increase in methane concentrations during post-injection sampling as compared to pre-injection conditions.

Nitrate. Nitrate can also serve as an alternate electron acceptor. Typically, in the presence of bioavailable organic carbon, nitrate is quickly reduced and removed. Pre-injection nitrate concentrations exceeded the NC 2L Standard of 10 mg/L in three Phase 2 injection shallow monitoring wells (MW-3, MW-4, and MW-18) and two compliance shallow monitoring wells (MW-5 and MW-19). By the January 2015 sampling event, nitrate concentrations had decreased to below the NC 2L Standard in three of these wells (MW-3, MW-18, and MW-19).

MBTs. Groundwater samples were collected from Pase 1 and Phase 2 injection shallow monitoring wells MW-2, MW-4, MW-16, MW-18 and compliance shallow monitoring well MW-19 and enumerated for *Dehalococcoides spp.* (DHC) and numbers of cells containing functional genes for dechlorination including TCE-reductase, VC-reductase, and BVC-A reductase. The positive identification of the microorganisms provides evidence of the potential for reductive dechlorination to occur, but not direct evidence of active metabolism.

Prior to bioaugmentation, cell densities of DHC were only detected above the laboratory reporting limit in Phase 1 injection shallow monitoring wells MW-2 and MW-16 at reported densities of 0.2 cells per milliliter (cells/mL) and 0.3 cells/mL, respectively. Although data collected during post-injection sampling events

have not indicated the presence of a large DHC population, DHC concentrations in July 2015 have increased by at least two orders of magnitude in MW-16, MW-4 and MW-19 compared to their baseline pre-bioaugmentation concentrations (**Table 5**).

Sulfide. Due to the high sulfate concentrations detected during the baseline sampling event and the potential for hydrogen sulfide to be generated from the reduction of sulfate, SIES added sulfide analysis to the post-injection sampling events. During the July 2015 sampling event, dissolved sulfide was detected above the laboratory MDL in 8 of 16 monitoring wells sampled. The maximum sulfide concentration detected was reported as 26.8 mg/L in MW-3. The elevated concentrations of ferrous iron in the dissolved phase (as reported above), may help precipitate sulfide from the dissolved phase.

Magnesium. Laboratory analysis for magnesium was intended to serve as an indicator that the colloidal buffer (CoBupH-Mg) has reached a monitoring well. In five of the six injection zone monitoring wells (MW-16 in Phase 1, and MW-3, MW-4, MW-8, and MW-18 in Phase 2), the concentration of magnesium pre-injection to post-injection is comparable, with slight variations greater or less than the pre-injection concentration. Magnesium concentration in MW-2 increased by an order of magnitude.

2.4 CHLORINE NUMBER CALCULATION

Table 6 presents a summary of the concentrations of the CVOCs in the PCE-to-ethene biodegradation pathway, with a calculation of the “Chlorine Number” prepared as an additional indicator of the extent of biodegradation. Chlorine number accounts for the stoichiometric transformation of the parent compounds to daughter compounds, independent of starting concentration. Undegraded PCE would have a chlorine number of 4.0. As daughter products become more prevalent, the chlorine number decreases.

The July 2015 chlorine numbers of the Phase 1 and Phase 2 injection shallow monitoring wells were calculated as 1.97 (MW-2), 1.99 (MW-16), 3.96 (MW-3), 3.86 (MW-4), 2.02 (MW-8) and 3.83 (MW-18). These results support the conclusion that reductive dechlorination in monitoring wells MW-2, MW-8 and MW-16 has been enhanced by the addition of buffered EVO substrate. However, despite increases in TOC and VFAs after substrate injections near monitoring wells MW-3, MW-4 and MW-18, other factors appear to be limiting biodegradation potential in these wells. These include low pH, high ORP and elevated sulfate, which can adversely influence the growth and metabolism of DHC.

2.5 MANN-KENDALL STATISTICAL ANALYSIS

The groundwater remedy for areas outside of the active treatment zone is MNA. SIES applied the Mann-Kendall statistical method to historical PCE data from shallow compliance wells up to and including the current sampling event in July 2015. The PCE data were entered into the Mann-Kendall Toolkit software

developed by GSI Environmental Inc. (Connor et al., 2014). Statistics were calculated for compliance monitoring wells in which PCE concentrations during the January 2015 event exceeded the NC 2L Standard. These included compliance shallow monitoring wells MW-1, MW-5, MW-7, MW-9, MW-13, MW-19 and MW-20. Results are provided in **Appendix C**. Using the criteria established by the software for evaluating data trends:

- There is approximately 96% confidence that PCE concentrations are increasing in MW-9 and MW-13. MW-9 is west of the Phase 2 injection area; the increases might reflect natural migration of groundwater contamination from areas of higher concentrations. However, MW-13 is off-site, presumably upgradient by approximately 200 ft generally from the Phase 1 injection area. Changes in this location should continue to be monitored.
- There is high confidence that PCE concentrations are decreasing in MW-19 (94%) and MW-20 (99%). These wells were installed as compliance wells out of the zone of immediate influence by the substrate injections, but the data suggest that some substrate has reached these locations. The biogeochemistry in MW-20 has changed favorably to support biodegradation, but the geochemistry in MW-19 would not be expected to support biodegradation. The decrease in PCE in MW-19 is unexplained.
- No trend was statistically discernible from the data in compliance shallow monitoring wells MW-1, MW-5 and MW-7.

3.0 QUALITY ASSURANCE/QUALITY CONTROL

Field quality assurance (QA) and quality control (QC) consisted of cross-contamination source reduction, including the use of new gloves at each monitoring well, the use of disposable sampling equipment, and proper decontamination of non-disposable sampling equipment using non-phosphate detergent and rinses.

As part of the laboratory QA/QC for this sampling event, one duplicate sample and three trip blanks (one per each cooler used to store/transport site-specific samples designated for aqueous VOC analysis) were submitted for analysis of VOCs by EPA Method 8260B. The duplicate sample results (provided in **Appendix B**) corresponded favorably with the groundwater samples from the well it was collected from (MW-2).

Chloromethane was detected above the laboratory MDL in trip blank TRIP BLANK1 at a concentration of 0.17 µg/L (J). Chloromethane and toluene were detected above the laboratory MDL in trip blank TRIP BLANK2 (0.14 µg/L [J] and 0.15 µg/L [J], respectively) and trip blank TB-3 (0.18 µg/L [J] and 0.17 µg/L [J], respectively).

4.0 INVESTIGATION-DERIVED WASTE

Groundwater investigation-derived waste (IDW) generated at the site was temporarily containerized in Department of Transportation (DOT) approved 55-gallon metal drums. These drums were stored at an approved location at the JCI facility pending further site investigation.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The groundwater data in the monitoring wells indicate that the addition of EVO has contributed to degradation of PCE and TCE into daughter products *c*DCE and VC in the Phase 1 injection area. The impact of EVO addition to the Phase 2 injection area currently shows mixed results, with some degradation observed in MW-8, but not MW-3, MW-4, or MW-18. The pH in these monitoring wells appears to still be below optimal for DHC. Additionally, TOC concentrations in these wells indicate that the EVO may not have reached them during the injection process. The immediate distribution of the injected substrate to these wells may have been limited by an elevated water table during the injection activities; subsequent transport of organic carbon away from the injection sites toward the performance monitoring wells appears to be continuously retarded by the shallow and variable groundwater gradient.

Implementation of *in situ* bioremediation has thus far been effective in reducing PCE and TCE concentrations in much of the aquifer where the colloidal buffer and EVO were injected. This is reflected by comparing the pre-injection and post-injection PCE plumes depicted in **Figure 6** and **Figure 7**. Graphs depicting chlorinated volatile organic compound (CVOC) concentrations over time in select monitoring wells are included in **Appendix D**.

Contaminant concentrations in compliance monitoring wells outside of the injection zone remained relatively stable compared with historic sampling events, with a few exceptions (MW-1, MW-5, and MW-9). The exceptions are noted because the post-injection PCE concentrations in each of the wells listed are two or more orders-of-magnitude higher than concentrations reported during the RI phase of the project. However, the increases in PCE concentrations in these wells were first observed in October 2013, prior to injection activities, and therefore, cannot be attributed to injection of substrate and chase water mechanically pushing contamination away from the source. These increases may be attributed to contaminant migration. Contaminant concentrations in these wells, as well as all compliance wells, should continue to be monitored.

6.0 UPDATED RECEPTOR SURVEY

Based on the possible migration of CVOCs to the west of the site, SIES undertook to update the receptor survey of areas west of the site. SIES utilized the tax map from the Johnston County GIS database to identify adjacent parcels as shown on **Figure 8**. On July 20, 2015, a reconnaissance of the adjoining and

nearby properties within a 1500 ft radius of the site was conducted. On five parcels south of the site across I-95, gates were locked barring access. No outdoor water supply wells were observed on other parcels that were accessible within the radius. The City of Selma provides potable water to the JCI facility and SIES confirmed that all the property owners received water bills in the mail from the City via US mail.

SIES observed a livestock pond on parcel 1760, due west of the Eaton Selma site. According to Johnston County GIS, the parcel belongs to Mr. Paul Howard whose address is 1661 NC HWY 96 N, Selma NC. The livestock pasture and pond appeared to be between a solar farm to the south and train tracks to the north. SIES attempted to determine if the pond might also be pumped for irrigation purposes, but the shed next to the pond did not appear to have a power drop from the closest power pole.

7.0 REFERENCES

Connor, J. A., S.K. Farhat, and M. Vanderford, 2014. GSI Mann-Kendall Toolkit for Quantitative Analysis of Plume Concentration Trends. Groundwater. doi: 10.1111/gwat.12277.

SIES, 2013. *Remedial Action Plan for Groundwater*, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston County, North Carolina, June 3.

SIES, 2012. *Phase II Remedial Investigation Report*, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston County, February 8.

USEPA, 2006. *Record of Decision, Gurley Pesticide Burial Site,* EPA ID: NCD986172526, OU 01, Selma, NC, September 28.

USEPA, 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, USEPA Office of Research and Development, EPA/600/R-98/128, September 1998.

FIGURES

PROJECT NUMBER 2013.0014.EATN

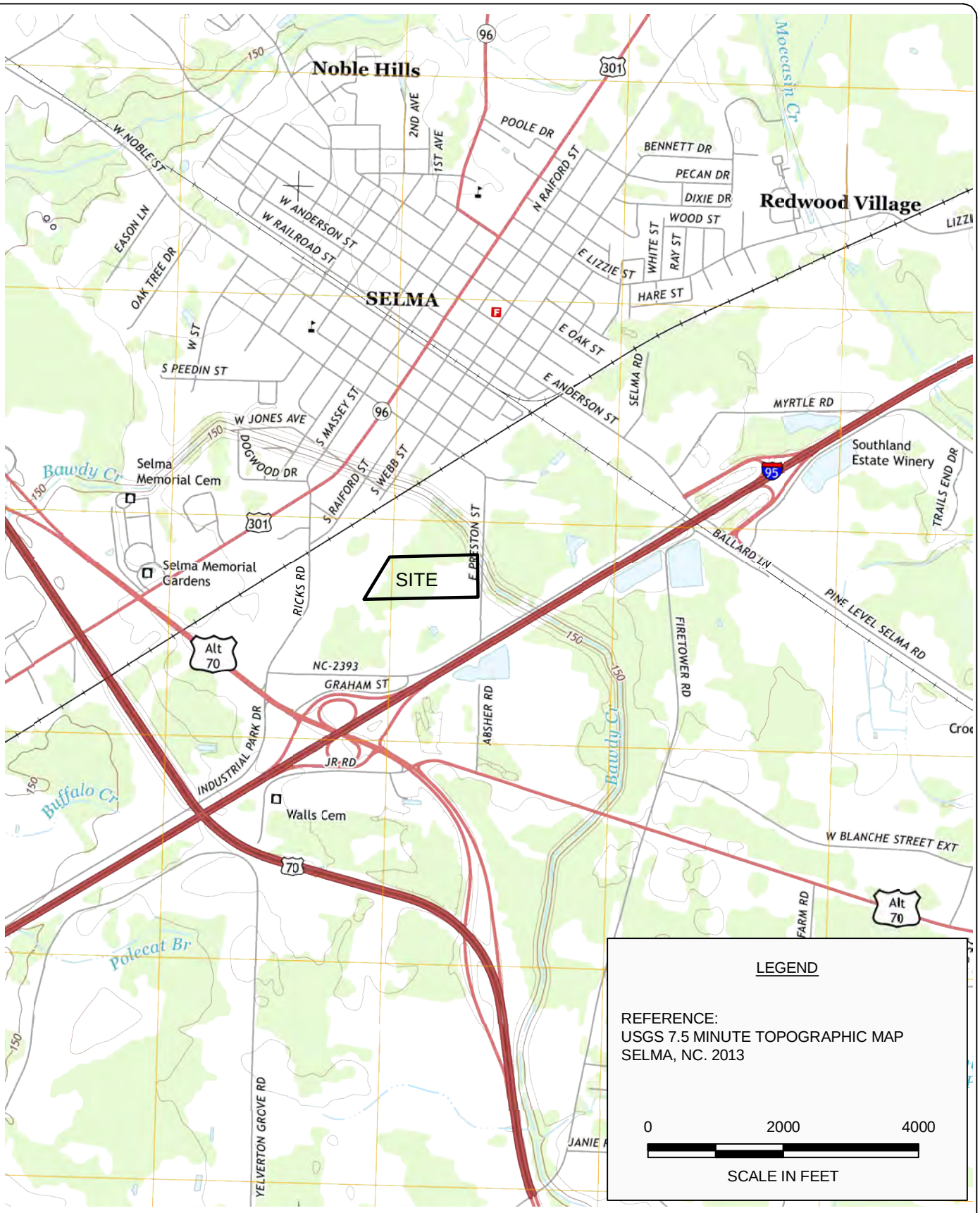
DRAFTER KTS

CHECKED BY SAM

PROJECT MANAGER JLO

DATE 8/26/2015

FILE Post Injection Monitoring and Assesment Report.dwg



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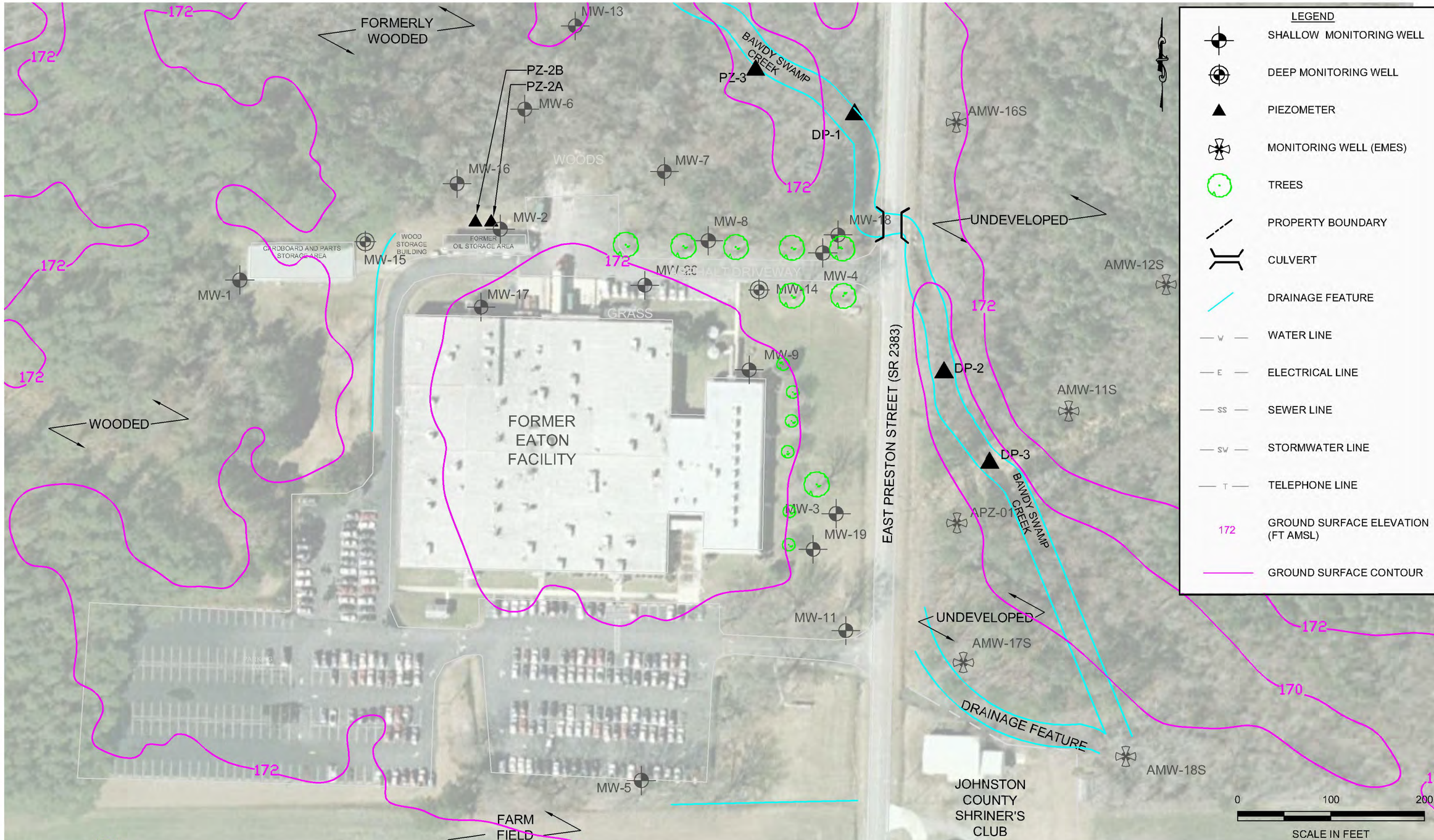
SITE LOCATION MAP
FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

FIGURE:

1

J:\Project Files\Eaton Corporation\Eaton Selma\CAD\Current Drawings\Remedial Action\Post Injection Monitoring and Assesment Report.dwg

PROJECT NUMBER 2013.0014.EATN | DRAFTER KTS | CHECKED BY SAM | PROJECT MANAGER JLO | DATE 8/26/2015 | FILE Post Injection Monitoring and Assessment.dwg



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NOTES:
1) BASEMAP OBTAINED FROM JIMMY BARBOUR SURVEYING, PA, APRIL 2008.
2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008, JULY 2010, & OCTOBER 2013.
3) GROUND SURFACE CONTOURS FROM JOHNSTON COUNTY GIS, 2011.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SITE MAP

FIGURE: 2

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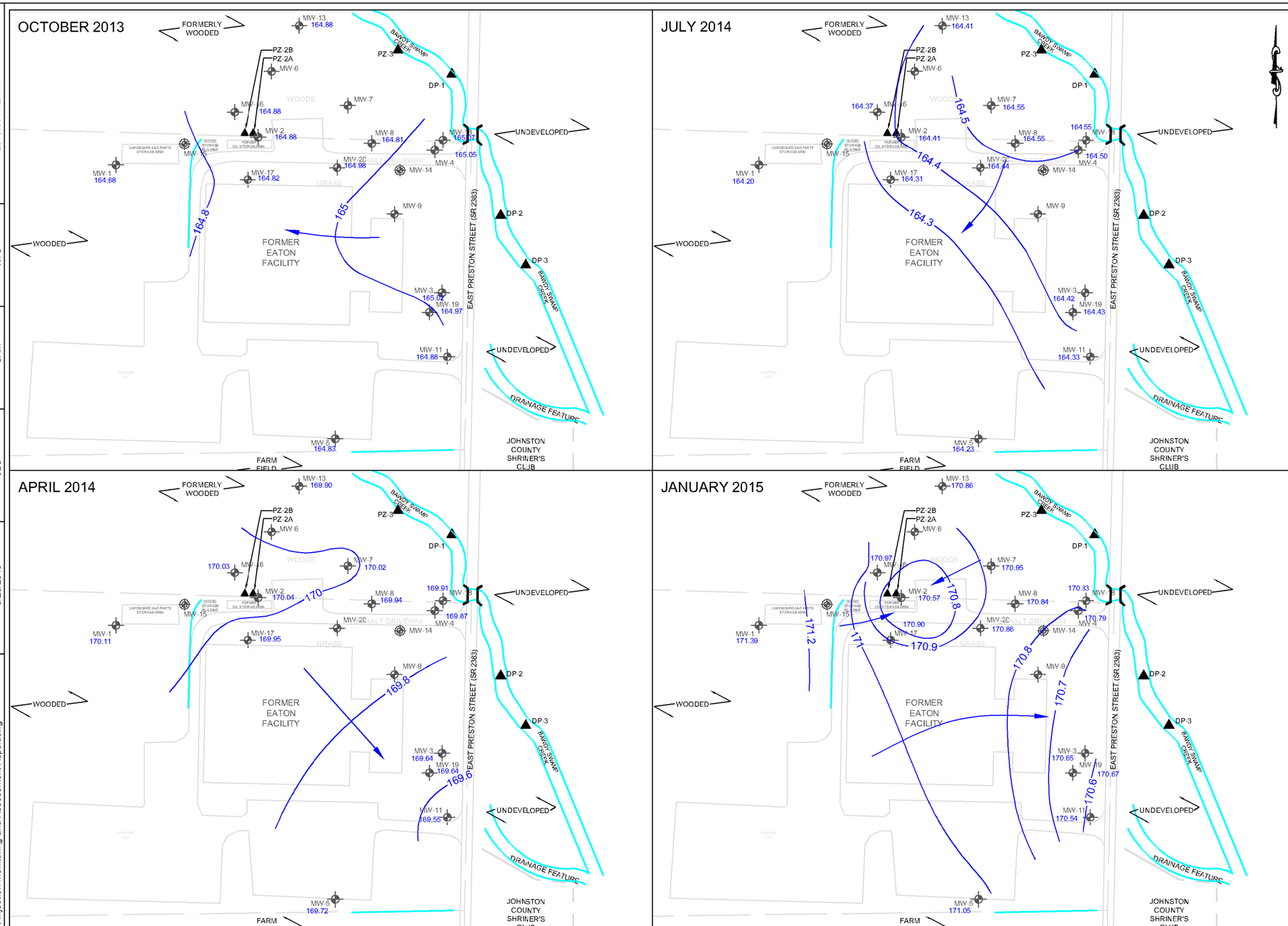

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- PIEZOMETER
- MONITORING WELL (EMES)
- 164.4 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- 164.42 — GROUNDWATER ELEVATION (FT AMSL)
- CULVERT
- DRAINAGE FEATURE

0 200 400

SCALE IN FEET

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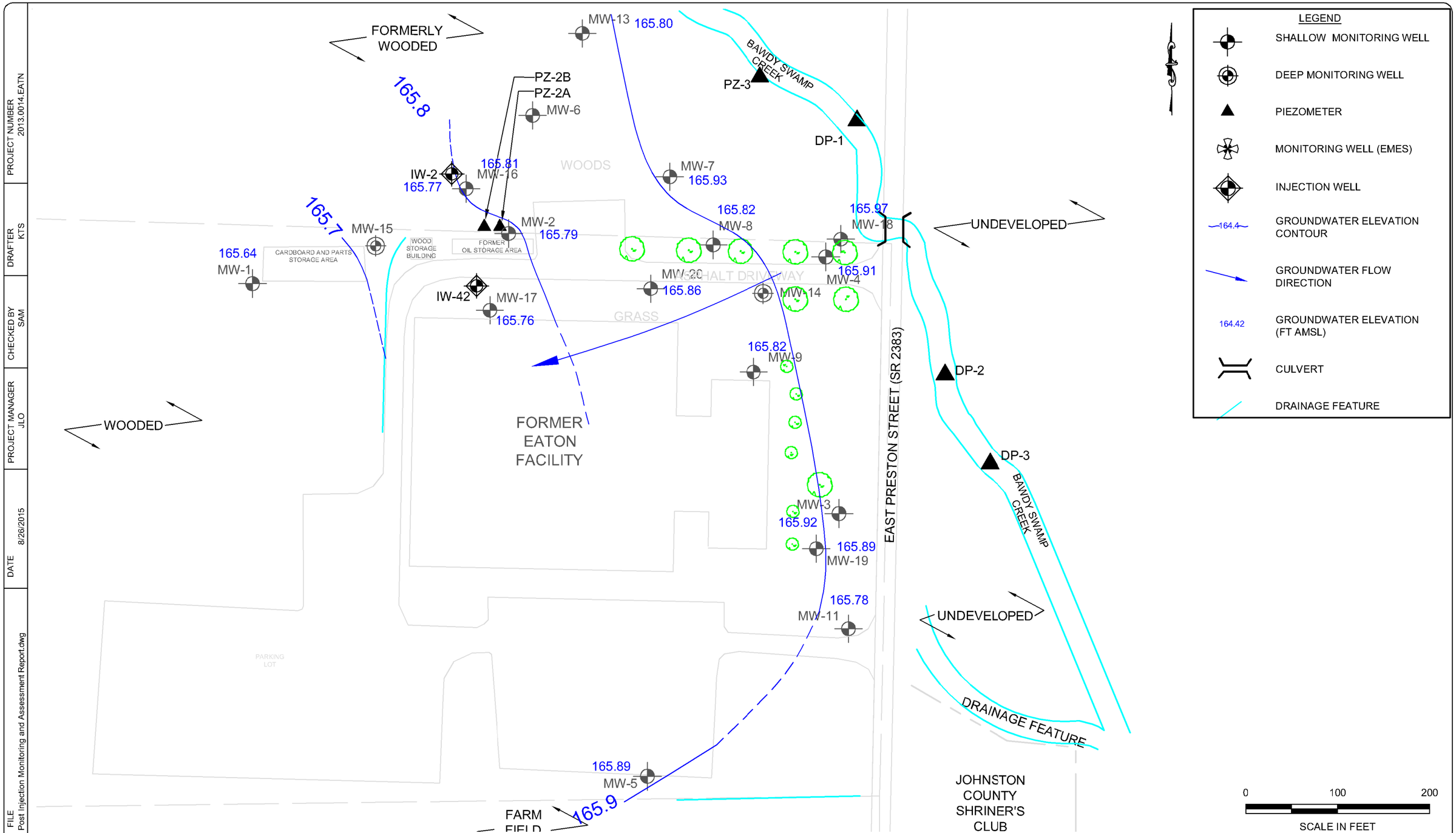
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE MAPS
OCTOBER 2013 THROUGH JANUARY 2015

FIGURE: 3



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NOTES:
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2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008, JULY 2010, & OCTOBER 2013.
3) MW-6 AND MW-11 NOT USED IN INTERPRETATION OF CONTOURS.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE MAP
JULY 2015

FIGURE: 4

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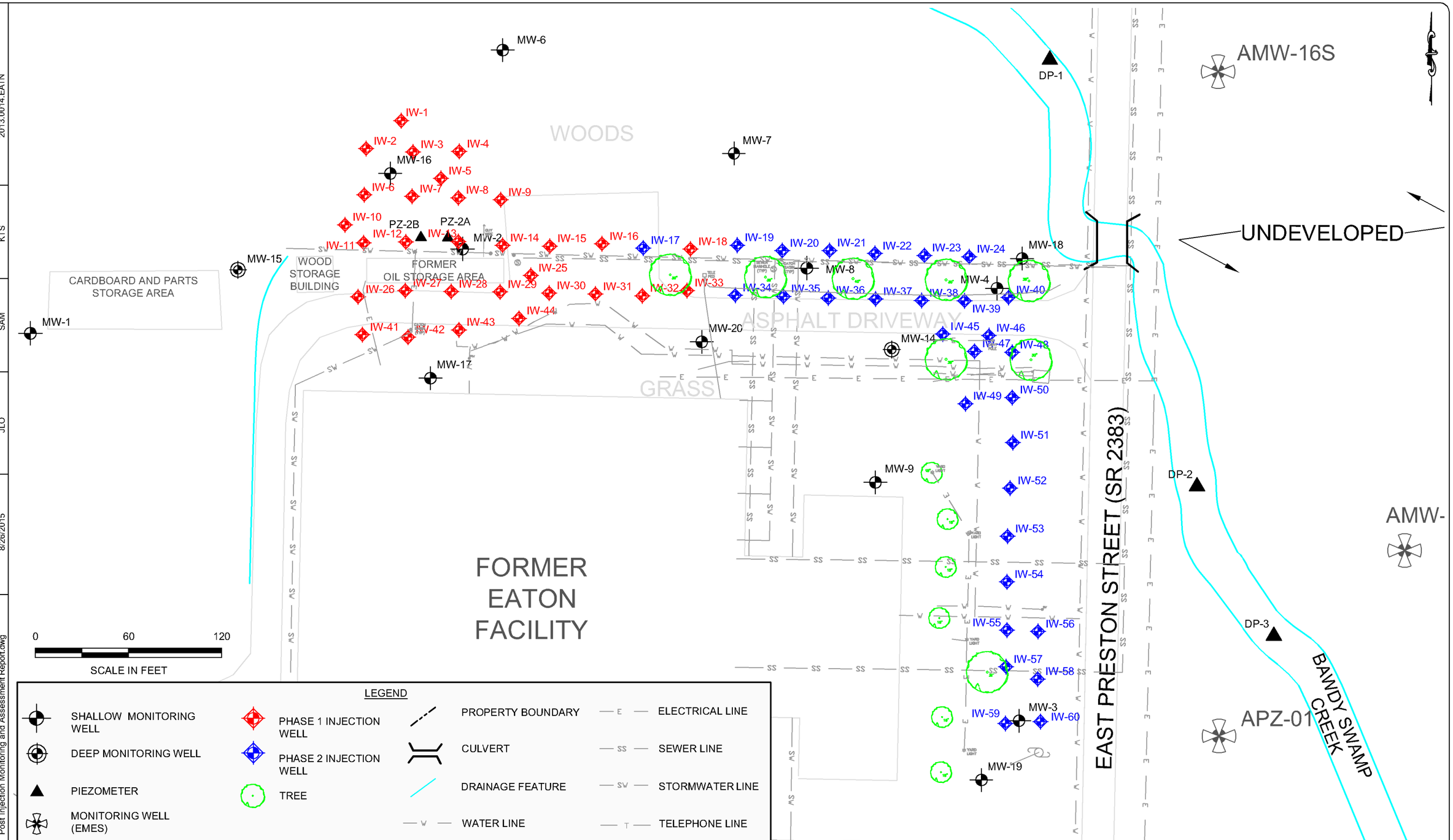
PROJECT MANAGER JLO
DATE 8/26/2015
FILE Post Injection Monitoring and Assessment Report.dwg



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FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

INJECTION WELL LAYOUT

FIGURE: 5

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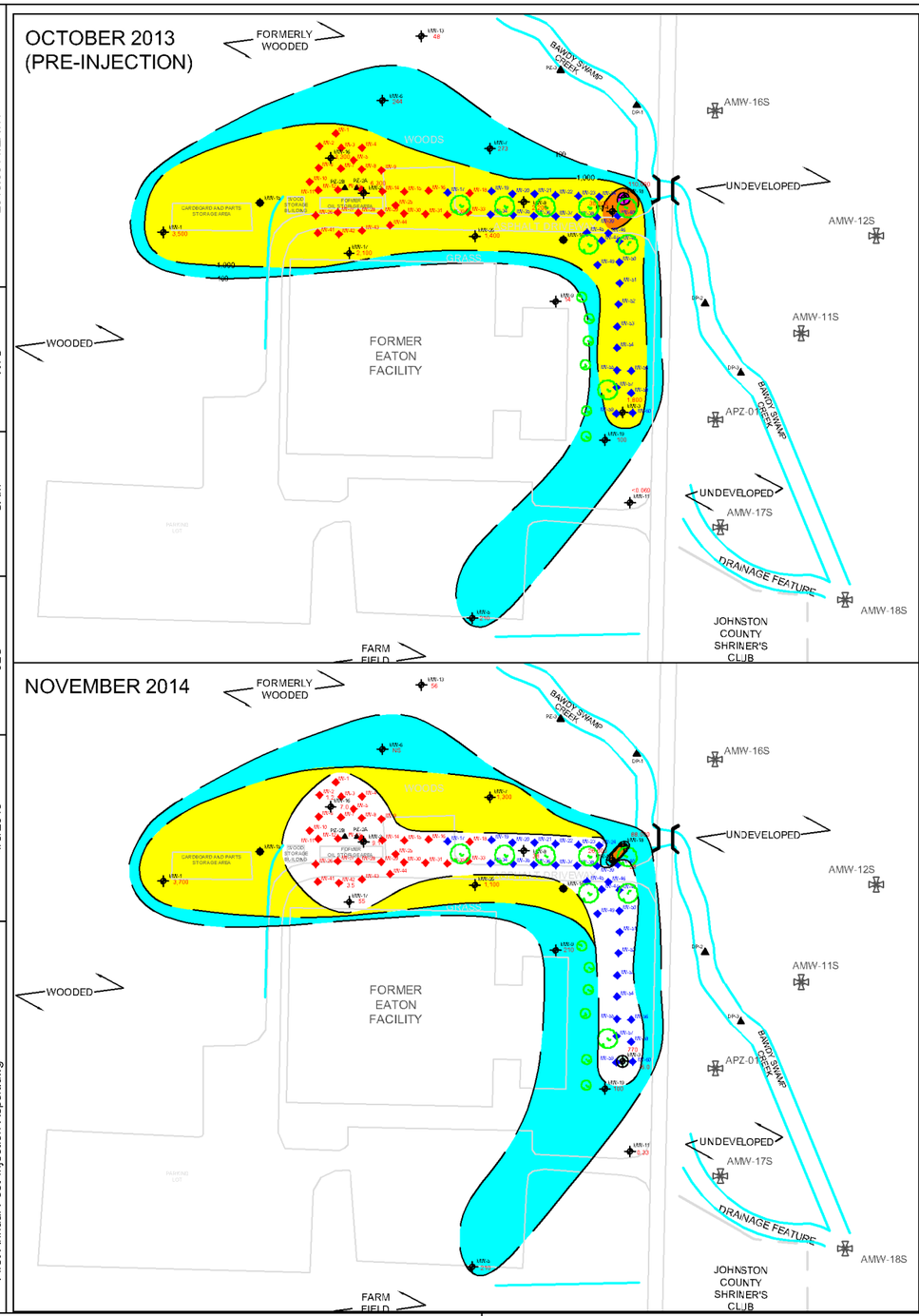
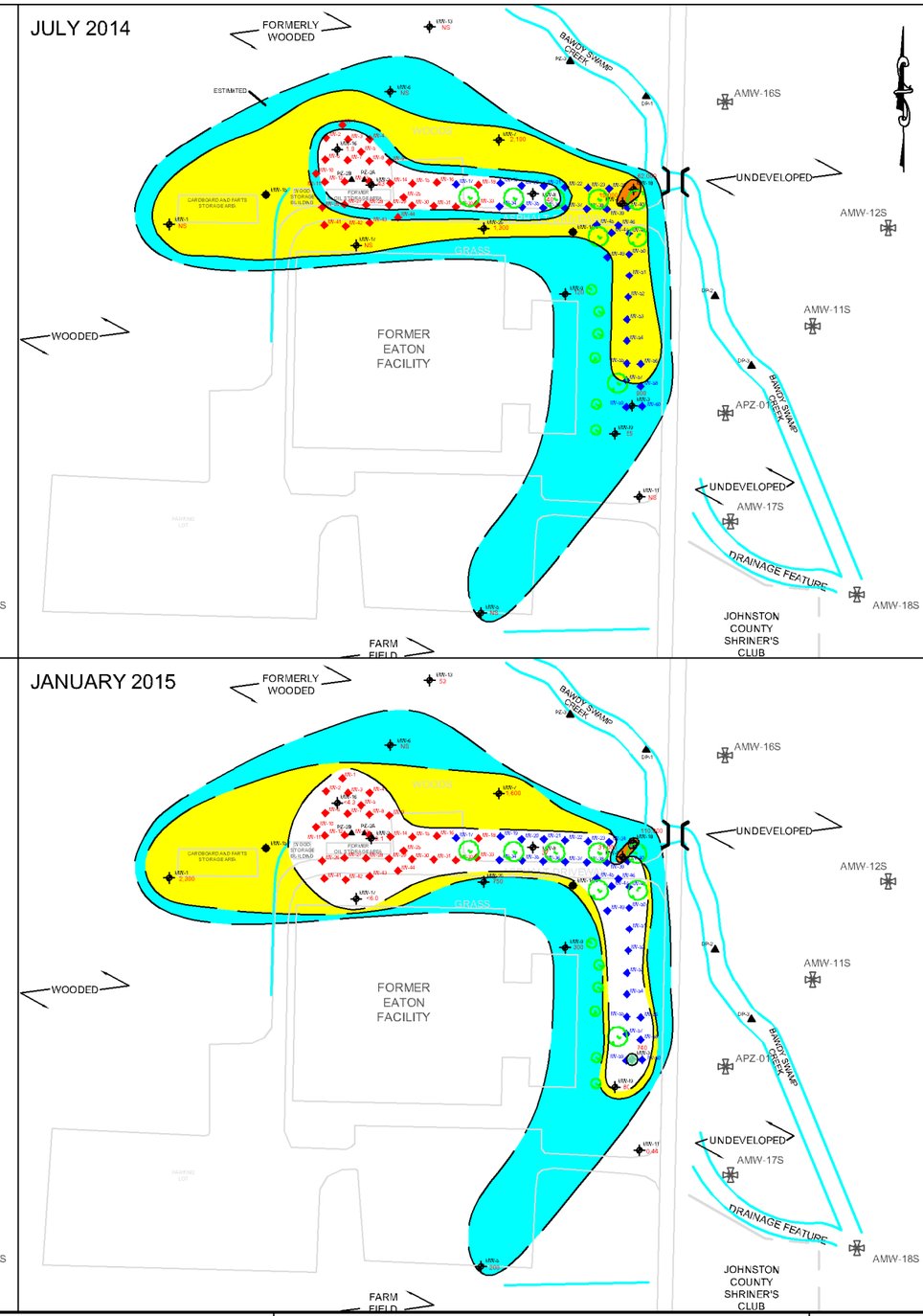
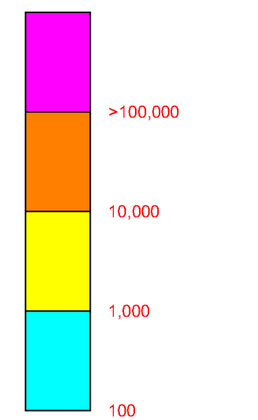




LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- PIEZOMETER
- MONITORING WELL (EMES)
- PHASE 1 INJECTION WELL
- PHASE 2 INJECTION WELL
- 48 PCE CONCENTRATION (ug/L)
- TREE
- CULVERT
- PROPERTY BOUNDARY
- DRAINAGE FEATURE

PCE (ug/L)



0 200 400

SCALE IN FEET

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NOTES:
1) PCE CONCENTRATIONS FOR MW-6 AND MW-7 IN THE PRE-INJECTION FIGURE ARE FROM JULY 2010.

FORMER EATON FACILITY
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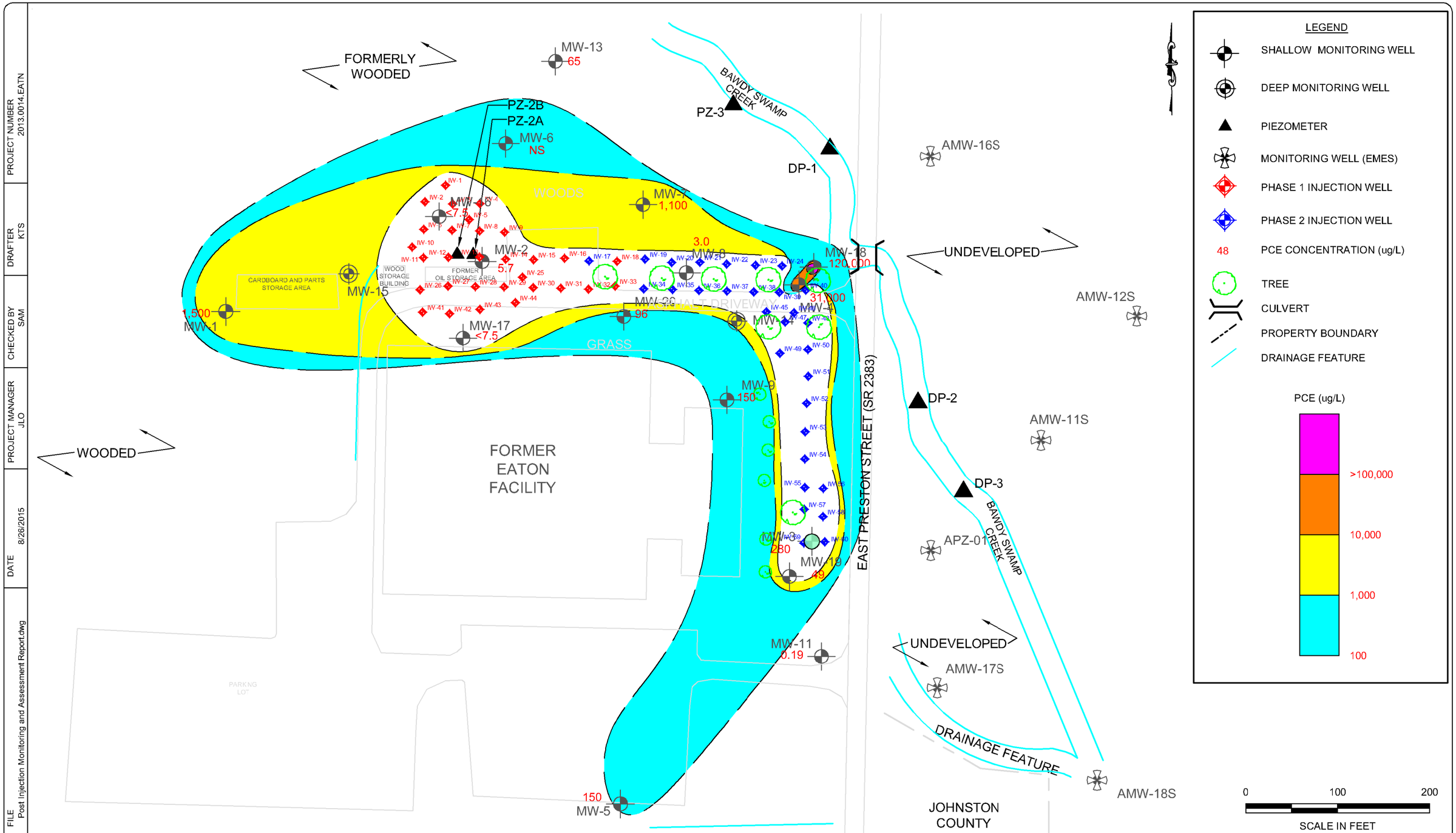
SELMA, JOHNSTON COUNTY, NC

SHALLOW PCE PLUME MAPS
OCTOBER 2013 THROUGH JANUARY 2015

FIGURE: 6



PROJECT NUMBER 2013.0014.EATN | DRAFTER KTS | CHECKED BY SAM | PROJECT MANAGER JLO | DATE 8/26/2015 | FILE Post Injection Monitoring and Assessment Report.dwg

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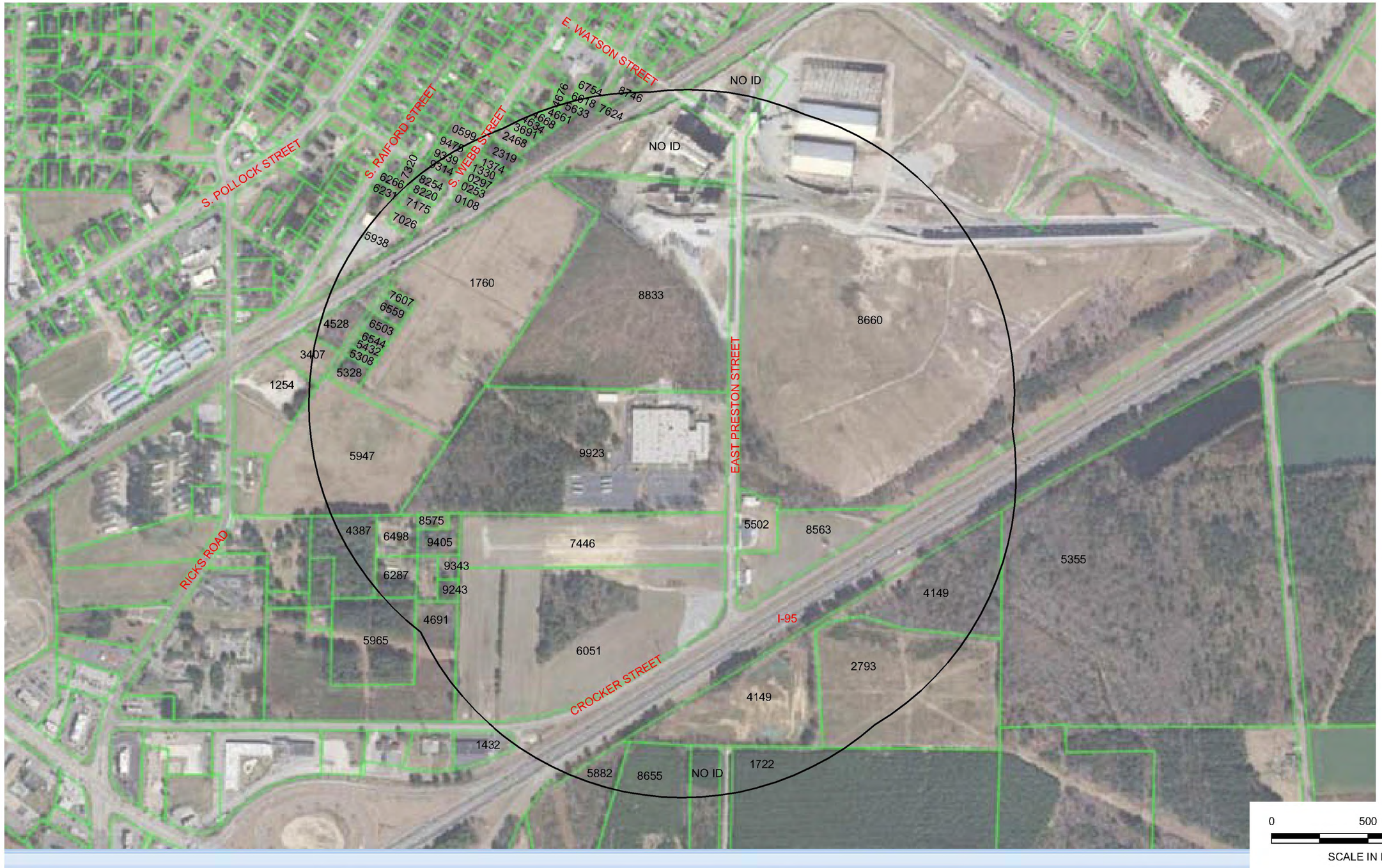
SHALLOW PCE PLUME MAP
JULY 2015

FIGURE: 7



PROJECT NUMBER	DRAFTER	CHECKED BY	PROJECT MANAGER	DATE	FILE
2013.0014.EATN	KTS	DB	JLO	7/9/2015	Phase 1 21-month 2 18-month Post-Injection.dwg

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NOTES:
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2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008, JULY 2010, & OCTOBER 2013.
3) GROUND SURFACE CONTOURS FROM JOHNSTON COUNTY GIS, 2011.
4) 1500' RADIUS DRAWN FROM WELL LOCATIONS AND THEN THE OUTSIDE BOUNDARY SELECTED.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

RECEPTOR SURVEY

FIGURE: 8

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TABLES

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well or Piezometer ID	Ground Surface Elevation (ft amsl)	Top of Casing (ft amsl)	Screened Interval (ft bgs)	Date	Depth-to-Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth-to-Water (ft bgs)
Shallow Monitoring Wells							
MW-1	172.63	172.00	15 - 20	6/18/2008	6.61	165.39	7.24
				7/16/2008	6.60	165.40	7.23
				4/8/2009	1.68	170.32	2.31
				4/22/2009	1.38	170.62	2.01
				7/28/2010	8.53	163.47	9.16
				6/27/2011	8.58	163.42	9.21
				4/27/2012	5.65	166.35	6.28
				10/30/2012	10.18	161.82	10.81
				1/31/2013	7.73	164.27	8.36
				10/1/2013	7.32	164.68	7.95
				1/15/2014	1.58	170.42	2.21
				4/28/2014	1.89	170.11	2.52
				7/29/2014	7.80	164.20	8.43
				11/3/2014	5.63	166.37	6.26
				1/27/2015	0.61	171.39	1.24
				7/21/2015	6.36	165.64	6.99
MW-2	171.37	171.21	25 - 30	6/18/2008	5.68	165.53	5.84
				7/16/2008	5.65	165.56	5.81
				4/8/2009	0.98	170.23	1.14
				4/22/2009	1.67	169.54	1.83
				7/28/2010	7.45	163.76	7.61
				6/27/2011	7.59	163.62	7.75
				4/27/2012	4.60	166.61	4.76
				10/30/2012	9.21	162.00	9.37
				1/31/2013	6.59	164.62	6.75
				10/1/2013	6.33	164.88	6.49
				1/15/2014	0.90	170.31	1.06
				4/28/2014	1.17	170.04	1.33
				7/29/2014	6.80	164.41	6.96
				11/3/2014	4.65	166.56	4.81
				1/27/2015	0.64	170.57	0.80
				7/21/2015	5.42	165.79	5.58
MW-3	171.29	171.13	15 - 20	6/18/2008	5.14	165.99	5.30
				7/16/2008	4.91	166.22	5.07
				4/8/2009	1.01	170.12	1.17
				4/22/2009	1.58	169.55	1.74
				7/28/2010	7.15	163.98	7.31
				6/27/2011	7.43	163.70	7.59
				4/27/2012	4.43	166.70	4.59
				10/30/2012	9.20	161.93	9.36
				1/31/2013	6.17	164.96	6.33
				10/1/2013	6.11	165.02	6.27
				1/15/2014	1.05	170.08	1.21
				4/28/2014	1.49	169.64	1.65
				7/29/2014	6.71	164.42	6.87
				11/3/2014	4.50	166.63	4.66
				1/27/2015	0.48	170.65	0.64
				7/21/2015	5.21	165.92	5.37
MW-4	171.73	171.56	15 - 20	6/18/2008	5.84	165.72	6.01
				7/16/2008	5.88	165.68	6.05
				4/8/2009	1.31	170.25	1.48
				4/22/2009	2.02	169.54	2.19
				7/28/2010	7.66	163.90	7.83
				6/27/2011	7.82	163.74	7.99
				4/27/2012	4.78	166.78	4.95
				10/30/2012	9.48	162.08	9.65
				1/31/2013	6.62	164.94	6.79
				10/1/2013	6.51	165.05	6.68
				1/15/2014	1.30	170.26	1.47
				4/28/2014	1.69	169.87	1.86
				7/29/2014	7.06	164.50	7.23
				11/3/2014	4.54	167.02	4.71
				1/27/2015	0.77	170.79	0.94
				7/21/2015	5.65	165.91	5.82

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well or Piezometer ID	Ground Surface Elevation (ft amsl)	Top of Casing (ft amsl)	Screened Interval (ft bgs)	Date	Depth-to-Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth-to-Water (ft bgs)
MW-5	171.05	170.42	15 - 20	6/18/2008	4.47	165.95	5.10
				7/16/2008	4.02	166.40	4.65
				4/8/2009	0.4	170.02	1.03
				4/22/2009	1.06	169.36	1.69
				7/28/2010	6.57	163.85	7.20
				6/27/2011	6.93	163.49	7.56
				4/27/2012	4.52	165.90	5.15
				10/30/2012	8.75	161.67	9.38
				1/31/2013	4.86	165.56	5.49
				10/1/2013	5.59	164.83	6.22
				1/15/2014	Above TOC	--	--
				4/28/2014	0.7	169.72	1.33
				7/29/2014	6.19	164.23	6.82
				11/3/2014	3.11	167.31	3.74
				1/27/2015	Above TOC	--	--
				7/21/2015	4.53	165.89	5.16
MW-6	171.06	173.88	20-30	7/28/2010	10.13	163.75	7.31
				6/27/2011	10.26	163.62	7.44
				4/27/2012	7.34	166.54	4.52
				10/30/2012	11.85	162.03	9.03
				1/31/2013	9.25	164.63	6.43
				1/15/2014	3.62	170.26	0.80
MW-7	171.57	174.68	20-30	7/28/2010	10.78	163.90	7.67
				6/27/2011	10.94	163.74	7.83
				4/27/2012	8.00	166.68	4.89
				10/30/2012	12.53	162.15	9.42
				1/31/2013	9.86	164.82	6.75
				1/15/2014	4.37	170.31	1.26
				4/28/2014	4.66	170.02	1.55
				7/29/2014	10.13	164.55	7.02
				11/3/2014	8.01	166.67	4.90
				1/27/2015	3.73	170.95	0.62
				7/21/2015	8.75	165.93	5.64
MW-8	171.28	171.08	20-30	7/28/2010	7.23	163.85	7.43
				6/27/2011	7.36	163.72	7.56
				4/27/2012	4.34	166.74	4.54
				10/30/2012	8.99	162.09	9.19
				1/31/2013	6.27	164.81	6.47
				1/15/2014	0.82	170.26	1.02
				4/28/2014	1.14	169.94	1.34
				7/29/2014	6.53	164.55	6.73
				11/3/2014	4.44	166.64	4.64
				1/27/2015	0.24	170.84	0.44
				7/21/2015	5.26	165.82	5.46
MW-9	173.01	172.66	28-38	7/28/2010	9.05	163.61	9.40
				6/27/2011	9.03	163.63	9.38
				10/30/2012	10.72	161.94	11.07
				1/31/2013	8.88	163.78	9.23
				10/1/2013	7.03	165.63	7.38
				1/15/2014	2.55	170.11	2.90
				4/28/2014	2.84	169.82	3.19
				7/29/2014	8.27	164.39	8.62
				11/3/2014	6.07	166.59	6.42
				1/27/2015	1.89	170.77	2.24
				7/21/2015	6.84	165.82	7.19
MW-11	170.54	170.25	25-35	7/28/2010	6.35	163.90	6.64
				6/27/2011	6.62	163.63	6.91
				4/27/2012	3.70	166.55	3.99
				10/30/2012	8.45	161.80	8.74
				1/31/2013	5.49	164.76	5.78
				10/1/2013	5.37	164.88	5.66
				1/15/2014	0.26	169.99	0.55
				4/28/2014	0.70	169.55	0.99
				7/29/2014	5.92	164.33	6.21
				11/3/2014	3.70	166.55	3.99
				1/27/2015	Above TOC	--	--
				7/21/2015	4.47	165.78	4.76

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well or Piezometer ID	Ground Surface Elevation (ft amsl)	Top of Casing (ft amsl)	Screened Interval (ft bgs)	Date	Depth-to-Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth-to-Water (ft bgs)
MW-13	171.49	173.94	21-31	6/27/2011	10.32	163.62	7.87
				4/27/2012	7.40	166.54	4.95
				1/31/2013	9.26	164.68	6.81
				10/1/2013	9.06	164.88	6.61
				1/15/2014	3.75	170.19	1.30
				4/28/2014	4.04	169.90	1.59
				7/29/2014	9.53	164.41	7.08
				11/3/2014	7.40	166.54	4.95
				1/27/2015	3.08	170.86	0.63
				7/21/2015	8.14	165.80	5.69
MW-16	171.71	174.78	15-25	10/1/2013	9.90	164.88	6.83
				1/15/2014	4.47	170.31	1.40
				4/28/2014	4.75	170.03	1.68
				7/29/2014	10.41	164.37	7.34
				11/3/2014	8.23	166.55	5.16
				1/27/2015	3.81	170.97	0.74
				7/21/2015	8.97	165.81	5.90
MW-17	172.41	172.19	15-25	10/1/2013	7.37	164.82	7.59
				1/15/2014	1.94	170.25	2.16
				4/28/2014	2.24	169.95	2.46
				7/29/2014	7.88	164.31	8.10
				11/3/2014	5.72	166.47	5.94
				1/27/2015	1.29	170.90	1.51
				7/21/2015	6.43	165.76	6.65
MW-18	172.01	171.43	15-25	10/1/2013	6.36	165.07	6.94
				1/15/2014	1.12	170.31	1.70
				4/28/2014	1.52	169.91	2.10
				7/29/2014	6.88	164.55	7.46
				11/3/2014	4.73	166.70	5.31
				1/27/2015	0.60	170.83	1.18
				7/21/2015	5.46	165.97	6.04
MW-19	171.39	171.19	15-25	10/1/2013	6.22	164.97	6.42
				1/15/2014	1.10	170.09	1.30
				4/28/2014	1.55	169.64	1.75
				7/29/2014	6.76	164.43	6.96
				11/3/2014	4.59	166.60	4.79
				1/27/2015	0.52	170.67	0.72
				7/21/2015	5.30	165.89	5.50
MW-20	172.32	172.10	15-25	10/1/2013	7.12	164.98	7.34
				1/15/2014	1.86	170.24	2.08
				4/28/2014	2.15	169.95	2.37
				7/29/2014	7.66	164.44	7.88
				11/3/2014	5.51	166.59	5.73
				1/27/2015	1.24	170.86	1.46
				7/21/2015	6.24	165.86	6.46
Deep Monitoring Wells							
MW-14	171.71	171.45	47-57	6/27/2011	7.53	163.92	7.79
				4/27/2012	4.56	166.89	4.82
				10/30/2012	9.22	162.23	9.48
				1/31/2013	6.39	165.06	6.65
				10/1/2013	5.80	165.65	6.06
				1/15/2014	3.81	167.64	4.07
				4/28/2014	0.75	170.70	1.01
				7/29/2014	4.73	166.72	4.99
				11/3/2014	4.46	166.99	4.72
				1/27/2015	5.04	166.41	5.30
				7/21/2015	3.38	168.07	3.64
MW-15	171.69	171.49	46-56	6/27/2011	8.00	163.49	8.20
				4/27/2012	5.19	166.30	5.39
				10/30/2012	9.47	162.02	9.67
				1/31/2013	7.16	164.33	7.36
				10/1/2013	6.77	164.72	6.97
				1/15/2014	2.12	169.37	2.32
				4/28/2014	1.70	169.79	1.90
				7/29/2014	7.15	164.34	7.35
				11/3/2014	5.09	166.40	5.29
				1/27/2015	0.68	170.81	0.88
				7/21/2015	5.77	165.72	5.97

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well or Piezometer ID	Ground Surface Elevation (ft amsl)	Top of Casing (ft amsl)	Screened Interval (ft bgs)	Date	Depth-to-Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth-to-Water (ft bgs)
Piezometers							
DP-1	167.61	171.01	4-5	7/28/2010	DRY	--	--
				6/27/2011	DRY	--	--
				4/27/2012	2.95	168.06	-0.45
				10/30/2012	2.95	168.06	-0.45
				1/31/2013	4.53	166.48	1.13
				10/1/2013	2.96	168.05	-0.44
				1/15/2014	2.46	168.55	-0.94
				4/28/2014	1.47	169.54	-1.93
				7/29/2014	1.79	169.22	-1.61
				11/3/2014	0.80	170.21	-2.60
				1/27/2015	0.79	170.22	-2.61
				7/21/2015	1.41	169.60	-1.99
DP-2	167.34	170.59	4-5	7/28/2010	DRY	--	--
				6/27/2011	DRY	--	--
				4/27/2012	2.93	167.66	-0.32
				10/30/2012	2.82	167.77	-0.43
				1/31/2013	2.93	167.66	-0.32
				10/1/2013	2.49	168.10	-0.76
				1/15/2014	2.49	168.10	-0.76
				4/28/2014	2.35	168.24	-0.90
				7/29/2014	2.05	168.54	-1.20
				11/3/2014	1.92	168.67	-1.33
				1/27/2015	1.97	168.62	-1.28
				7/21/2015	2.29	168.30	-0.96
DP-3	167.21	170.51	4-5	7/28/2010	DRY	--	--
				6/27/2011	DRY	--	--
				4/27/2012	2.50	168.01	-0.80
				10/30/2012	2.94	167.57	-0.36
				1/31/2013	3.56	166.95	0.26
				10/1/2013	0.50	170.01	-2.80
				1/15/2014	0.95	169.56	-2.35
				4/28/2014	0.35	170.16	-2.95
				7/29/2014	6.98	163.53	3.68
				11/3/2014	0.50	170.01	-2.80
				1/27/2015	0.21	170.30	-3.09
				7/21/2015	0.64	169.87	-2.66
PZ-2A[1]	NS	172.84	13.5-14.5	4/22/2009	2.69	170.15	--
				6/27/2011	9.14	163.70	--
				10/30/2012	10.62	162.22	--
				1/31/2013	8.07	164.77	--
		171.21		10/1/2013	6.08	165.13	--
				1/15/2014	1.59	169.62	--
				4/28/2014	1.13	170.08	--
				7/29/2014	6.19	165.02	--
				11/3/2014	5.65	165.56	--
				1/27/2015	3.89	167.32	--
				7/21/2015	3.65	167.56	--
PZ-2B[1]	NS	172.81	5.5-6.5	4/22/2009	4.75	168.06	--
				6/27/2011	DRY	--	--
		171.21		10/1/2013	2.55	168.66	--
				1/15/2014	0.60	170.61	--
				4/28/2014	0.48	170.73	--
				7/29/2014	1.98	169.23	--
				11/3/2014	0.10	171.11	--
				1/27/2015	Above TOC	--	--
				7/21/2015	0.86	170.35	--
PZ-3[1]	NS	170.01	7.5-8.5	4/22/2009	0.64	169.37	--
				6/27/2011	1.0	169.01	--
				10/1/2013	4.40	165.61	--
				1/15/2014	Above TOC	--	--
				4/28/2014	0.05	169.96	--
				7/29/2014	2.82	167.19	--
				11/3/2014	0.80	169.21	--
				1/27/2015	Above TOC	--	--
				7/21/2015	0.65	169.36	--
IW-2A	NS	174.95	10-20	7/21/2015	9.18	165.77	--
IW-42B	NS	170.57	23-30	7/21/2015	5.56	165.01	--

Notes:

ft amsl = feet mean sea level (NAVD 1988)
ft bgs = feet below ground surface
ft btoc = feet below top of casing

-- = Not calculated
NS = Not surveyed
TOC = Top of casing

1. Piezometers were converted to flush mount in August 2013. Top of casing elevation assumed to be the same as MW-2.

TABLE 2
SUMMARY OF FIELD PARAMETERS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	pH (SU)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	DO (mg/L)
Phase 1 Injection Shallow Monitoring Wells								
MW-2	6/18/2008	--	5.6	177	23.4	32	46	NM
	4/7/2012	--	6.4	139	16.5	31	NM	NM
	7/28/2010	--	6.0	94	29.2	7	61	0.3
	10/2/2013	--	5.4	76	20.0	33	42	0.2
	10/31/2013	INJECTION						
	1/16/2014	77	5.3	886	11.5	33	-479	0.2
	4/28/2014	179	5.7	1,276	18.5	12	-42	0.2
	7/29/2014	271	5.7	1,238	23.7	358	-106	0.0
	11/4/2014	369	6.1	1,129	18.9	357	-88	0.2
	1/28/2015	454	6.1	1,326	14.2	26	-83	0.4
	7/21/2015	628	6.3	1,178	22.3	16	-105	0.1
MW-16	10/2/2013	--	4.5	1,262	17.7	8	117	0.2
	10/31/2013	INJECTION						
	1/16/2014	77	5.8	723	13.0	5	-81	0.3
	4/28/2014	179	6.0	1,019	16.7	5	-21	0.3
	7/29/2014	271	5.6	1,182	19.8	3	-102	0.1
	11/4/2014	369	5.8	1,226	18.8	2	-123	0.3
	1/28/2015	454	6.1	1,410	13.6	1	-72	0.7
	7/22/2015	629	5.9	1,492	21.8	3	-64	0.1
Phase 2 Injection Shallow Monitoring Wells								
MW-3	6/18/2008	--	3.6	1,287	19.5	11	205	NM
	7/29/2010	--	3.2	4,506	20.8	4	192	0.9
	10/2/2013	--	3.5	4,146	21.6	6	285	0.2
	2/14/2014	INJECTION						
	7/30/2014	301	4.0	2,589	21.5	5.1	221.8	0.3
	11/4/2014	263	4.1	3,227	20.1	6.3	-156.2	0.3
	1/26/2015	346	4.2	2,900	14.9	34.1	-9.1	0.1
	7/21/2015	522	4.3	1,776	22.8	8.0	-137.1	0.3
MW-4	6/18/2008	--	3.9	1,201	19.4	20	168	NM
	7/28/2010	--	3.5	2,881	19.2	19	214	0.7
	10/30/2012	--	3.5	3,420	18.6	2	413	3.0
	1/31/2013	--	3.6	4,297	16.7	5	401	0.6
	10/2/2013	--	3.2	4,246	19.7	4	202	0.5
	1/15/2014	--	3.5	4,536	16.3	41	405	0.7
	2/14/2014	INJECTION						
	4/28/2014	73	4.3	4,026	15.3	8	186	0.5
	7/29/2014	165	3.4	3,929	19.3	7	444	0.5
	11/4/2014	263	3.7	4,040	18.1	4	401	0.6
	1/28/2015	348	3.5	3,983	14.0	42	335	0.4
	7/22/2015	523	3.4	3,979	19.9	3	262	0.6
MW-8	7/28/2010	--	5.6	160	20.7	20	121	0.3
	10/30/2012	--	3.9	416	17.7	14	305	2.0
	1/31/2013	--	4.0	1,418	15.6	12	352	0.6
	10/2/2013	--	4.2	1,170	19.8	7	122	0.2
	1/15/2014	--	4.2	1,316	16.2	50	366	0.5
	2/14/2014	INJECTION						
	4/29/2014	74	5.6	613	16.0	658	-58	0.2
	7/30/2014	166	5.5	751	19.7	4	-80	0.2
	11/3/2014	262	5.5	788	17.8	7	-50	0.2
	1/26/2015	346	5.7	650	13.6	5	4	0.3
	7/21/2015	522	5.7	913	21.4	27	-127	0.3
MW-18	10/2/2013	--	3.3	3,323	19.9	5	201	0.9
	1/15/2014	--	3.6	4,085	14.9	7	398	0.9
	2/14/2014	INJECTION						
	4/28/2014	73	4.1	3,846	15.9	67	215	0.5
	7/29/2014	165	3.5	3,812	18.7	9	416	0.7
	11/4/2014	263	3.6	8	17.6	8	347	13.4
	1/28/2015	348	3.6	3,140	13.3	10	254	0.2
	7/21/2015	522	3.6	3,401	20.4	7	192	0.4

TABLE 2
SUMMARY OF FIELD PARAMETERS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	pH (SU)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	DO (mg/L)
Compliance Shallow Monitoring Wells								
MW-1	6/18/2008	--	5.0	126	19.3	44	81	NM
	7/29/2010	--	3.8	39	21.3	8	79	1.0
	10/2/2013	--	5.0	80	19.6	0.5	200	0.2
	11/5/2014	--	5.0	69	18.8	4	226	0.4
	1/26/2015	--	5.0	62	12.9	25	318	0.4
	7/21/2015	--	4.5	58	19.9	4	33	0.6
MW-5	6/18/2008	--	6.5	231	19.2	11	165	NM
	7/29/2010	--	10.3	254	21.1	171	29	2.8
	10/2/2013	--	12.2	3,107	20.6	33	-55	2.5
	11/5/2014	--	6.4	2,877	19.2	340	180	1.3
	1/27/2015	--	4.3	3,694	12.6	468	382	0.9
	7/22/2015	--	4.5	1,914	21.3	7	182	0.8
MW-6	7/28/2010	--	6.1	123	21.9	107	79	0.2
MW-7	7/28/2010	--	6.1	179	20.5	27	46	0.4
	1/16/2014	--	5.1	234	12.4	2	67	2.1
	4/29/2014	--	5.1	337	15.0	9	127	0.9
	7/29/2014	--	4.6	198	18.2	7	16	0.2
	11/3/2014	--	5.1	216	16.6	6	193	0.5
	1/27/2015	--	5.1	267	13.8	3	92	1.3
	7/23/2015	--	5.0	216	19.2	5	170	0.6
MW-9	7/28/2010	--	5.0	72	22.5	84	10	0.5
	10/1/2013	--	4.8	61	20.0	62	28	0.2
	1/15/2014	--	5.4	98	16.3	194	-21	0.6
	4/29/2014	--	5.8	136	17.1	8	-1	0.3
	7/30/2014	--	5.5	92	23.1	20	106	0.2
	11/3/2014	--	5.4	115	17.9	8	-27	0.2
	1/26/2015	--	5.5	138	16.0	7	57	0.4
	7/22/2015	--	4.5	101	21.5	9	-46	0.4
MW-11	7/29/2010	--	6.4	278	23.1	84	40	0.2
	10/2/2013	--	6.1	141	23.3	29	42	0.2
	11/4/2014	--	6.0	108	19.5	9	-70	0.2
	1/26/2015	--	6.1	114	14.9	8	47	0.2
	7/22/2015	--	5.0	64	20.9	24	-114	1.4
MW-13	6/27/2011	--	6.0	132	20.1	88	-94	0.4
	10/1/2013	--	4.5	61	17.9	15	57	1.0
	11/5/2014	--	5.3	68	17.8	66	180	0.6
	1/27/2015	--	5.7	85	12.5	8	5	2.4
	7/23/2015	--	5.2	69	18.0	10	15	0.8
MW-17	10/2/2013	--	4.4	1,256	21.0	9	269	0.7
	11/4/2014	--	6.5	1,429	18.9	24	-160	0.2
	1/27/2015	--	6.5	1,493	13.8	4	-101	0.5
	7/22/2015	--	6.4	959	22.6	6	-107	0.4
MW-19	10/2/2013	--	3.6	4,270	19.9	9	315	0.4
	1/15/2017	--	3.6	4,286	14.9	26	138	0.5
	4/28/2014	--	4.0	1,108	17.5	31	193	0.4
	7/29/2014	--	3.6	3,036	21.8	10	285	0.2
	11/4/2014	--	4.2	2,498	18.5	11	-48	0.2
	1/28/2015	--	4.1	2,427	10.2	29	-8	0.4
	7/22/2015	--	3.9	3,314	24.5	53	-100	0.4
MW-20	10/1/2013	--	4.0	1,853	23.0	4	220	0.3
	1/16/2014	--	4.1	1,633	14.9	7	391	0.4
	4/29/2014	--	5.4	1,102	16.7	20	-32	0.3
	7/30/2014	--	4.3	1,534	21.9	9	185	0.4
	11/3/2014	--	5.3	1,194	20.3	27	-164	0.2
	1/26/2015	--	6.0	537	15.2	8	-9	0.4
	7/22/2015	--	6.2	1,115	25.3	2	-127	0.3

TABLE 2
SUMMARY OF FIELD PARAMETERS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	pH (SU)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	DO (mg/L)
Compliance Deep Monitoring Wells								
MW-14	6/27/2011	--	6.5	238	23.2	240	71	0.5
	10/1/2013	--	9.5	403	22.4	9	-7	0.1
	11/3/2014	--	10.2	699	18.9	34	42	0.3
	1/26/2015	--	10.5	481	14.3	7	41	0.5
	7/22/2015	--	11.3	1,100	20.2	4	50	0.4
MW-15	6/27/2011	--	11.0	622	22.7	12	-68	0.2
	10/2/2013	--	7.3	259	23.4	16	-121	0.3
	11/4/2014	--	7.1	253	18.7	7	-132	0.2
	1/27/2015	--	7.1	263	12.9	3	-88	0.5
	7/22/2015	--	6.6	244	21.2	5	-28	0.3

Notes:
SU = Standard Units
µS/cm = MicroSiemens per centimeter
°C = Degrees Celsius
NTU = Nephelometric Turbidity Units
mV = Millivolts
mg/L = milligrams per liter
NM = not measured

TABLE 3
SUMMARY OF ANALYTICAL LABORATORY DATA FOR VOCS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	VOCs by EPA Method 8260 (µg/L)												
			PCE	TCE	*c* DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	Carbon tetrachloride	1,1,2-TCA	1,2-DCA	Benzene	1,2-Dichloro benzene	Dibromo chloromethane
COC Category			**P**	**P**	**DP**	**DP**	**S**	**P**	**S**	**S**	**S**	**S**	**S**	**S**	**S**
NC 2L Standard			**0.7**	**3**	**70**	**0.03**	**200**	**350**	**6**	**0.3**	**NE**	**0.4**	**1**	**20**	**0.4**
Phase 1 Injection Shallow Monitoring Wells															
MW-2	6/18/2008	--	**8,820**	**1,080**	**4.4**	<0.62	**6.5**	**1,780**	**7.0**	**6.6**	**1.8**	<0.12	**1.2**	**102**	<0.21
	4/7/2009	--	**7,140**	**879**	**100**	<6.2	<4.8	**910**	<3.2	<2.5	<2.9	<1.2	<2.5	<3.0	<2.1
	7/28/2010	--	**5,150**	**624**	<320	<320	<320	**838**	<320	<320	<320	<320	<320	<320	<320
	10/2/2013	--	**6,300**	**570**	<7.6	<16	<6.3	**700**	<9.6	<12	<17	<14	<7.2	<7.6	<30
	10/31/2013	INJECTION													
	1/16/2014	77	**37**	**36**	**1,900**	<3.1	<1.3	**240**	<1.9	<2.4	<3.3	<2.8	<1.4	<1.5	<6.0
	4/28/2014	179	**29**	**25**	**1,900**	**43**	<1.3	**280**	<1.9	<2.4	<3.3	<2.8	<1.4	<1.5	<6.0
	7/29/2014	271	**43**	**44**	**2,400**	**53**	<0.020	**310**	**1.5**	<0.030	**0.22 J**	**0.42 J**	**0.14 J**	**0.49 J**	<0.040
	11/4/2014	369	**9.1 J**	**14 J**	**2,700**	**58**	<2.0	**390**	<2.0	<3.0	<4.0	<3.0	<3.0	<3.0	<4.0
	1/28/2015	454	**9.1 J**	**14 J**	**3,000**	**81**	<1.7	**390**	<1.7	<2.5	<3.3	<2.5	<2.5	<2.5	<3.3
	7/21/2015	628	**5.7 J**	**12 J**	**2,900**	**66**	<1.0	**230**	<1.0	<1.5	<2.0	<1.5	<1.5	<1.5	<2.0
MW-16	10/2/2013	--	**3,300**	**310**	<3.8	<7.8	**92**	**690**	<4.8	<5.9	<8.3	<7.0	<3.6	<3.8	<15
	10/31/2013	INJECTION													
	1/16/2014	77	<6.9	**18,000**	**680**	<16	<6.3	**830**	<9.6	<12	<17	<14	<7.2	<7.6	<30
	4/28/2014	179	<3.4	**740**	**9,400**	<7.8	<3.1	**780**	**28**	<5.9	<8.3	<7.0	<3.6	<3.8	<15
	7/29/2014	271	**1.9**	**51 J**	**9,100**	**120 J**	**15**	**730**	**23**	<0.030	**1.1**	**0.55**	<0.030	**0.64**	<0.40
	11/4/2014	369	**7.0 J**	**13 J**	**2,900**	**35 J**	**9.4 J**	**560**	**29**	<3.0	<4.0	<3.0	<3.0	<3.0	<4.0
	1/28/2015	454	<4.3	<2.1	**2,300**	**26 J**	**4.5 J**	**430**	**30 J**	<2.1	<2.9	<2.1	<2.1	<2.1	<2.9
	7/22/2015	629	<7.5	<3.8	**3,200**	**21 J**	<2.5	**520**	**29 J**	<3.8	<5.0	<3.8	<3.8	<3.8	<5.0
Phase 2 Injection Shallow Monitoring Wells															
MW-3	6/18/2008	--	**573**	**2.8**	<0.19	<0.62	**3.1**	**13.9**	<0.32	<0.25	< 0.29	<0.12	<0.25	<0.30	<0.21
	7/29/2010	--	**1,630**	<80.0	<80.0	<80.0	<80.0	<80.0	<80.0	<80.0	<80.0	<80.0	<80.0	<80.0	<80.0
	10/2/2013	--	**1,800**	<0.27	<0.38	<0.78	**18**	**24**	<0.48	<0.59	<0.83	<0.70	**3.5**	<0.38	<1.5
	2/14/2014	INJECTION													
	7/30/2014	166	**900**	**1.2**	**0.78**	<0.070	**4.3**	**17**	**0.97**	**0.053 J**	<0.040	**0.19 J**	**1.2**	<0.030	<0.040
	11/4/2014	263	**770**	<0.75	<0.75	<1.8	**1.6 J**	<1.0	<0.50	<0.75	<1.0	<0.75	<0.75	<0.75	<1.0
	1/26/2015	346	**740**	<0.75	<0.75	<1.8	**1.5 J**	<1.0	<0.50	<0.75	<1.0	<0.75	**2.0 J**	<0.75	<1.0
	7/21/2015	522	**280**	**3.7 J**	**0.49 J**	<0.58	**0.39 J**	**6.0**	**0.95 J**	<0.25	<0.33	<0.25	**0.78 J**	<0.25	<0.33
MW-4	6/18/2008	--	**2,320**	**1,030**	**1.0**	<0.62	**47.6**	**553**	**6.3**	<0.25	**1.1**	<0.12	<0.25	<0.30	<0.21
	7/28/2010	--	**18,200**	**3,460**	<1,250	<1,250	**6,560**	**3,230**	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250
	10/30/2012	--	**25,800**	**3,380**	<4.48	<9.65	**8,940**	**3,140**	**7.00 J**	<4.23	<5.40	<3.48	<3.90	**15.0 J**	<12.8
	1/31/2013	--	**37,000**	**4,200**	<38	<78	**14,000**	**4,500**	<48	<59	<83	<70	<36	<38	<150
	10/2/2013	--	**30,000**	**4,800**	<7.6	<16	**7,600**	**3,600**	<9.6	<12	<17	<14	<7.2	<7.6	<30
	1/15/2014	--	**22,000**	**5,200**	<3.8	<7.8	**7,700**	**4,000**	<4.8	<5.9	<8.3	<7.0	<3.6	<3.8	<15
	2/14/2014	INJECTION													
	4/28/2014	73	**29,000**	**5,300**	<3.8	<7.8	**5,600**	**3,700**	<4.8	<5.9	<8.3	<7.0	<3.6	<3.8	<15
	7/29/2014	165	**19,000**	**5,300**	**6.4**	**0.19 J**	**6,400**	**4,000**	**10**	**12**	**7.1**	<0.030	**0.92**	**8.9**	<0.040
	11/4/2014	263	**26,000**	**4,800**	<21	<50	**8,800**	**5,100**	<14	<21	<29	<21	<21	<21	<29
	1/28/2015	348	**31,000**	**4,900**	<6.0	<14	**8,800**	**5,000**	**13 J**	<6.0	<8.0	<6.0	<6.0	**13 J**	<8.0
	7/22/2015	523	**31,000**	**4,100**	**2.8 J**	<3.5	**9,300**	**4,000**	**12 J**	<1.5	<2.0	<1.5	<1.5	**13 J**	<2.0

TABLE 3
SUMMARY OF ANALYTICAL LABORATORY DATA FOR VOCS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	VOCs by EPA Method 8260 (µg/L)												
			PCE	TCE	*c* DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	Carbon tetrachloride	1,1,2-TCA	1,2-DCA	Benzene	1,2-Dichloro benzene	Dibromo chloromethane
COC Category			**P**	**P**	**DP**	**DP**	**S**	**P**	**S**	**S**	**S**	**S**	**S**	**S**	**S**
NC 2L Standard			**0.7**	**3**	**70**	**0.03**	**200**	**350**	**6**	**0.3**	**NE**	**0.4**	**1**	**20**	**0.4**
MW-8	7/28/2010	--	**974**	<50.0	<50.0	<50.0	**102**	**132**	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
	10/30/2012	--	**874**	**58.2**	**1.72**	<0.386	**45.9**	**128**	**5.15**	<0.169	<0.216	<0.139	<0.156	**0.430 J**	<0.173
	1/31/2013	--	**2,100**	**150**	<1.5	<3.1	**200**	**400**	<1.9	<2.4	<3.3	<2.8	<1.4	<1.5	<6.0
	10/2/2013	--	**2,200**	**120**	<0.38	<0.78	**120**	**260**	**3.6**	<0.59	<0.83	<0.70	<0.36	<0.38	<1.5
	1/15/2014	--	**1,900**	**130**	**2.6**	<0.78	**130**	**340**	**3.0**	**4.0**	<0.83	<0.70	<0.36	<0.38	<1.5
	2/14/2014		INJECTION												
	4/29/2014	74	**65**	**13**	**5.8**	<0.78	**3.4**	**60**	**8.6**	<0.59	<0.83	<0.70	<0.36	<0.38	<1.5
	7/30/2014	166	**40**	**16**	**210**	**3.2**	**4.3**	**95**	**10**	<0.030	<0.040	**0.073 J**	<0.030	**0.059 J**	<0.040
	11/3/2014	262	**38**	**11**	**360**	**6.7**	**4.7 J**	**120**	**14**	<0.30	<0.40	<0.30	<0.30	<0.30	<0.40
	1/26/2015	346	**37**	**8.8**	**420**	**10**	**3.7 J**	**110**	**15**	<0.42	<0.56	<0.42	<0.42	<0.42	<0.56
	7/22/2015	523	**3.0 J**	**40.0**	**620**	**13**	**1.3 J**	**92**	**14**	<0.60	<0.80	<0.60	<0.60	<0.60	<0.80
MW-18	10/2/2013	--	**110,000**	**22,000**	**380**	<31	**37,000**	**17,000**	**300**	<24	<33	<28	<14	<15	<60
	1/15/2014	--	**50,000**	**6,000**	<15	<31	**21,000**	**7,400**	<19	<24	<33	<28	<14	<15	<60
	2/14/2014		INJECTION												
	4/28/2014	73	**66,000**	**14,000**	<15	<31	**20,000**	**14,000**	**110**	<24	<33	<28	<14	<15	<60
	7/29/2014	165	**62,000 B**	**10,000**	**19**	**1.2**	**20,000**	**10,000**	**53 E**	**29**	**28**	**0.92**	**1.0**	**27**	<0.40
	11/4/2014	263	**88,000**	**20,000**	<94	<220	**28,000**	**23,000**	<63	<94	<130	<94	<94	<94	<94
	1/28/2015	348	**110,000**	**20,000**	**14 J**	<14	**30,000**	**20,000**	**77 J**	<6.0	<8.0	<6.0	<6.0	**35 J**	<8.0
	7/21/2015	522	**120,000**	**18,000**	<110	<250	**31,000**	**16,000**	<71	<110	<140	<110	<110	<110	<140
Compliance Shallow Monitoring Wells															
MW-1	6/18/2008	--	**1.2**	<0.47	<0.19	<0.62	<0.48	<0.56	<0.32	<0.25	<0.29	<0.12	**2.8**	<0.30	<0.21
	7/29/2010	--	**2.15**	<1.00	**7.02**	<1.00	<1.00	<1.00	**4.58**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	10/2/2013	--	**3,500**	**200**	**120**	<16	<6.3	**400**	<9.6	<12	<17	<14	<7.2	<7.6	<30
	11/5/2014	--	**3,700**	**190**	**81**	<8.8	**47 J**	**510**	**17 J**	<3.8	<5.0	<3.8	<3.8	<3.8	<5.0
	1/26/2015	--	**2,300**	**100**	**54**	<5.8	**20 J**	**190**	**8.6 J**	<2.5	<3.3	<2.5	<2.5	<2.5	<3.3
	7/22/2015	--	**1,500**	**59**	**24**	<3.5	**12 J**	**90**	**4.5 J**	<1.5	<2.0	<1.5	<1.5	<1.5	<2.0
MW-5	6/18/2008	--	<0.46	< 0.47	<0.19	<0.62	< 0.48	<0.56	<0.32	<0.25	< 0.29	<0.12	<0.25	<0.30	<0.21
	7/29/2010	--	**1.53**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	10/2/2013	--	**210**	<0.054	<0.076	<0.16	**1.2**	**4.0**	<0.096	<0.12	<0.17	<0.14	**2.4**	<0.076	<0.30
	11/5/2014	--	**210**	**0.43 J**	**0.49 J**	<0.44	**0.86 J**	**5.8**	<0.13	<0.19	<0.25	<0.19	**2.1 J**	<0.19	<0.25
	1/27/2015	--	**200**	<0.21	**0.44 J**	<0.50	**0.63 J**	**3.9**	<0.14	<0.21	<0.29	<0.21	**1.9 J**	<0.21	<0.29
	7/22/2015	--	**150**	**0.37 J**	**0.31 J**	<0.35	**0.33 J**	**2.8**	**0.32 J**	<0.15	<0.20	<0.15	**0.87 J**	<0.15	<0.20
MW-6	7/28/2010	--	**244**	**14.2**	<10.0	<10.0	<10.0	**24.7**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
MW-7	7/28/2010	--	**273**	**29.6**	<16.0	<16.0	<16.0	**52.3**	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
	1/16/2014	--	**1,600**	**140**	<7.6	<16	**120**	**390**	<9.6	<12	<17	<14	<7.2	<7.6	<30
	4/29/2014	--	**1,500**	**130**	<1.5	<3.1	**110**	**370**	<1.9	<2.4	<3.3	<2.8	<1.4	<1.5	<6.0
	7/29/2014	--	**2,100**	**250**	**5.3**	**0.19 J**	**180**	**720**	**3.7**	**0.79**	<0.040	**0.18 J**	<0.030	**0.25 J**	<0.040
	11/3/2014	--	**1,300**	**120**	**5.1 J**	<2.5	**83**	**380**	**3.8**	<1.1	<1.4	<1.1	<1.1	<1.1	<1.4
	1/27/2015	--	**1,600**	**120**	**2.4 J**	<3.5	**91**	**350**	**3.1 J**	<1.5	<2.0	<1.5	<1.5	<1.5	<2.0
	7/23/2015	--	**1,100**	**80**	**3.7 J**	<2.9	**57**	**230**	**3.8 J**	<1.3	<1.7	<1.3	<1.3	<1.3	<1.7

TABLE 3
SUMMARY OF ANALYTICAL LABORATORY DATA FOR VOCS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	VOCs by EPA Method 8260 (µg/L)												
			PCE	TCE	*c* DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	Carbon tetrachloride	1,1,2-TCA	1,2-DCA	Benzene	1,2-Dichloro benzene	Dibromo chloromethane
COC Category			**P**	**P**	**DP**	**DP**	**S**	**P**	**S**	**S**	**S**	**S**	**S**	**S**	**S**
NC 2L Standard			**0.7**	**3**	**70**	**0.03**	**200**	**350**	**6**	**0.3**	**NE**	**0.4**	**1**	**20**	**0.4**
MW-9	7/28/2010	--	**3.62**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	10/1/2013	--	**14**	**0.55**	<0.076	<0.16	<0.063	**1.3**	<0.096	<0.12	<0.17	<0.14	<0.072	<0.076	<0.30
	1/15/2014	--	**140**	**3.4**	<0.076	<0.16	**1.6**	**11**	<0.096	<0.12	<0.17	<0.14	<0.072	<0.076	<0.30
	4/29/2014	--	**220**	**5.5**	<0.076	<0.16	**2.9**	**17**	**0.68**	<0.12	<0.17	<0.14	<0.072	<0.076	<0.30
	7/30/2014	--	**120**	**3.0**	**0.26 J**	<0.070	**0.60**	**5.7**	**0.50**	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
	11/3/2014	--	**210**	**3.8**	<0.19	<0.44	**1.4 J**	**10**	**0.51 J**	<0.19	<0.25	<0.19	<0.19	<0.19	<0.25
	1/26/2015	--	**300**	**5.4**	**0.53 J**	<0.70	**3.4 J**	**15**	**0.61 J**	<0.30	<0.40	<0.30	<0.30	<0.30	<0.40
	7/22/2015	--	**150**	**2.8**	<0.15	<0.35	**0.47 J**	**5.0**	**0.62 J**	<0.15	<0.20	<0.15	<0.15	<0.15	<0.20
MW-11	7/29/2010	--	**2.01**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	10/2/2013	--	<0.069	<0.054	<0.076	<0.16	<0.063	<0.078	<0.096	<0.12	<0.17	<0.14	<0.072	<0.076	<0.30
	11/4/2014	--	**0.33 J**	<0.030	<0.030	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
	1/26/2015	--	**0.44 J**	<0.030	<0.030	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
	7/22/2015	--	**0.19 J**	<0.030	<0.030	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
MW-13	6/27/2011	--	**6.20**	**1.60**	<0.136	<0.124	**0.170 J**	**2.88**	<0.165	<0.101	<0.126	<0.167	<0.113	<0.137	<0.134
	10/1/2013	--	**48**	**18**	<0.076	<0.16	**1.2**	**33**	<0.096	<0.12	<0.17	<0.14	<0.072	<0.076	<0.30
	11/5/2014	--	**56**	**25**	**0.30 J**	<0.11	**1.4**	**48**	**0.38 J**	**0.12 J**	<0.062	<0.047	<0.047	<0.047	<0.062
	1/27/2015	--	**53**	**18**	**0.28 J**	<0.15	**1.1**	**31**	**0.28 J**	**0.14 J**	<0.083	<0.062	<0.062	<0.062	<0.083
	7/23/2015	--	**65**	**22**	**0.33 J**	<0.14	**1.3**	**40**	**0.40 J**	**0.12 J**	<0.080	<0.060	<0.060	<0.060	<0.080
MW-17	10/2/2013	--	**2,100**	**350**	**32**	<7.8	**250**	**370**	<4.8	<5.9	<8.3	<7.0	<3.6	<3.8	<15
	11/4/2014	--	**55**	**40 J**	**2,900**	**15 J**	**25 J**	**410**	**35 J**	<2.5	<3.3	<2.5	<2.5	<2.5	<3.3
	1/27/2015	--	<6.0	<3.0	**3,200**	**30 J**	**9.5 J**	**300**	**35 J**	<3.0	<4.0	<3.0	<3.0	<3.0	<4.0
	7/22/2015	--	<7.5	<3.8	**3,100**	**38 J**	**13 J**	**320**	**38 J**	<3.8	<5.0	<3.8	<3.8	<3.8	<5.0
MW-19	10/2/2013	--	**100**	<0.054	<0.076	<0.16	**0.73**	**3.6**	<0.096	<0.12	<0.17	<0.14	**3.7**	<0.076	<0.30
	1/15/2014	--	**800**	<0.054	**0.61**	<0.16	**11**	**15**	**0.72**	<0.12	<0.17	<0.14	**4.5**	<0.076	<0.30
	4/28/2014	--	**130**	**0.75**	<0.076	<0.16	<0.063	**14**	**1.1**	<0.12	<0.17	<0.14	**0.98**	<0.076	<0.30
	7/29/2014	--	**55**	**0.26 J**	**1.2**	<0.070	**0.12 J**	**3.8**	**0.34 J**	**0.045 J**	<0.040	**0.17 J**	**0.44 J**	<0.030	<0.040
	11/4/2014	--	**100**	**5.5**	**0.24 J**	<0.29	**13**	**12**	**0.76 J**	<0.13	<0.17	<0.13	**1.2 J**	<0.13	<0.17
	1/28/2015	--	**80**	**0.49 J**	**0.22 J**	<0.18	**0.10 J**	**8.4**	**0.81 J**	<0.075	<0.10	<0.075	**1.2 J**	<0.075	<0.10
	7/22/2015	--	**49**	<0.15	**0.25 J**	<0.35	<0.10	**3.7**	**0.56 J**	<0.15	<0.10	<0.15	**1.6 J**	<0.15	<0.20
MW-20	10/1/2013	--	**1,400**	**76**	<1.5	<3.1	**160**	**160**	<1.9	<2.4	<3.3	<2.8	<1.4	<1.5	<6.0
	1/16/2014	--	**1,200**	**56**	<1.5	<3.1	**57**	**150**	<1.9	<2.4	<3.3	<2.8	<1.4	<1.5	<6.0
	4/29/2014	--	**1,300**	**78**	<1.5	<3.1	**55**	**200**	<1.9	<2.4	<3.3	<2.8	<1.4	<1.5	<6.0
	7/30/2014	--	**1,300**	**65**	**2.1**	<0.070	**60**	**170**	**2.4**	**0.75**	<0.040	**0.10 J**	**0.035 J**	**0.48 J**	<0.040
	11/3/2014	--	**1,100**	**64**	**1.5 J**	<2.5	**28**	**120**	**12 J**	<1.1	<1.4	<1.1	<1.1	<1.1	<1.4
	1/26/2015	--	**750**	**430**	**18**	**1.9 J**	**19**	**130**	**9.4 J**	<0.75	<1.0	<0.75	<0.75	**0.88 J**	<1.0
	7/22/2015	--	**96**	**150**	**800**	**6.2 J**	**11 J**	**140**	**17**	<0.75	<1.0	<0.75	<0.75	<0.75	<1.0
Compliance Deep Monitoring Wells															
MW-14	6/27/2011	--	**0.230 J**	<0.125	<0.136	<0.124	<0.123	<0.212	<0.165	<0.101	<0.126	<0.167	<0.113	<0.137	**0.640 J**
	10/1/2013	--	<0.069	<0.054	<0.076	<0.16	<0.063	<0.078	<0.096	<0.12	<0.17	<0.14	<0.072	<0.076	<0.30
	11/3/2014	--	**0.11 J**	<0.030	<0.030	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
	1/26/2015	--	**0.070 J**	<0.030	<0.030	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	**0.046 J**	<0.040
	7/22/2015	--	**0.061 J**	<0.030	<0.030	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
MW-15	6/27/2011	--	**0.440 J**	<0.125	<0.136	<0.124	<0.123	<0.212	<0.165	<0.101	<0.126	<0.167	<0.113	<0.137	<0.134
	10/2/2013	--	<0.069	<0.054	<0.076	<0.16	<0.063	<0.078	<0.096	<0.12	<0.17	<0.14	<0.072	<0.076	<0.30
	11/4/2014	--	**0.10 J**	<0.030	**0.078 J**	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
	1/27/2015	--	**0.22 J**	<0.030	**0.12 J**	<0.070	<0.020	**0.084 J**	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040
	7/22/2015	--	**0.11 J**	<0.030	**0.039 J**	<0.070	<0.020	<0.040	<0.020	<0.030	<0.040	<0.030	<0.030	<0.030	<0.040

Notes:
µg/L = micrograms per liter
P = Primary contaminant of concern
DP = CVOC Degradation Daughter Product
S = Secondary contaminant of concern
NE = not established
Bolded values indicate concentration greater than the laboratory reporting limit.
Shaded cells are concentrations exceeding the NC 2L Standard or a detection if no NC 2L Standard is established.
J = Estimated concentration above the set method detection limit and below the set reporting limit.
E = Compound exceeds the upper level of the calibration range of the instrument.

TABLE 4
SUMMARY OF NATURAL ATTENUATION PARAMETERS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Nitrate-N (mg/L)	Fe2+ (mg/L)	Iron (mg/L)	Magnesium (mg/L)	TOC (mg/L)	Alkalinity (mg/L)
NC 2L Standard			**NE**	**NE**	**NE**	**250**	**NE**	**10**	**NE**	**0.3**	**NE**	**NE**	**NE**
Phase 1 Injection Shallow Monitoring Wells													
MW-2	10/2/2013	--	0.818 J	<0.087	0.525 J	2.7	NA	0.66	0.44	1.3	0.80	0.33 J	21
	10/31/2013	INJECTION											
	1/16/2014	77	7.26	1.88	0.535 J	<0.13	NA	<0.016	100	91	18	261	350
	4/28/2014	179	1,110	2.27	0.795 J	<0.13	<0.45	0.17	220	220	22	731	450
	7/29/2014	271	400	<0.14	<0.15	0.316 J	<0.450	0.0251 J	232	228	24.4	675	717
	11/4/2014	369	700	<0.14	0.82 J	3.12	<0.450	0.0090 J	221	167	23.7	599	633
	1/28/2015	454	1,100 B	<0.14	<0.15	0.475 J	<0.450	<0.00518	231	189	25.6	557	744
	7/21/2015	628	660	<0.14	<0.15	0.383 J	<0.383	0.237	196	NA	20.6	175	701
MW-16	10/2/2013	--	7.6	0.113 J	0.235 J	610	NA	7.9	<0.020	0.24	33	4.2	<0.59
	10/31/2013	INJECTION											
	1/16/2014	77	1.97 J	0.269 J	0.241 J	2.50	NA	<0.016	64	62	13	244	240
	4/28/2014	179	12.4	0.212 J	0.493 J	1.6	<0.45	0.27	110	120	20	289	460
	7/29/2014	271	190	<0.14	<0.15	0.307 J	<0.450	0.0264 J	182	174	24.1	393	588
	11/4/2014	369	390	<0.14	<0.15	3.84	<0.450	0.0113 J	188	143	28.3	365	587
	1/28/2015	454	810 B	<0.14	<0.15	0.465 J	<0.450	<0.00518	239	179	26.7	351	655
	7/22/2015	629	1600	<0.14	<0.15	0.278 J	<0.383	<0.00518	247	NA	28.3	410	856
Phase 2 Injection Shallow Monitoring Wells													
MW-3	10/2/2013	--	27.9	<0.087	<0.071	3,100	NA	38	<0.020	0.33	67	7.7	<0.59
	2/14/2014	INJECTION											
	7/30/2014	166	3.3	<0.14	<0.15	1,870	<0.450	1.03	17.1	16.6	121	75.9	<0.926
	11/4/2014	263	6.5	<0.14	<0.15	2,090	14.8	0.693	51.7	47.2	102	40.1	<0.926
	1/26/2015	346	36.0	<0.14	<0.15	2,120	14.0	0.763	43.3	49.4	70.8	16.5	<0.926
	7/21/2015	522	100	<0.14	<0.15	1,050	26.8	0.134	48.7	NA	33.7	30.6	7.04 J
MW-4	10/2/2013	--	7.78	<0.087	<0.071	3,600	NA	30	<0.020	0.12	93	14.5	<0.59
	2/14/2014	INJECTION											
	4/28/2014	73	7.08	<0.087	<0.071	3,300	<0.45	9.1	<0.039	0.21	95	47.4	<0.77
	7/29/2014	165	3.6	<0.14	<0.15	2,890	<0.450	16.9	0.150 J	<0.0694	88.1	22.9	<0.926
	11/4/2014	263	3.4	<0.14	<0.15	3,240	<0.450	18.0	0.140 J	0.150 J	91.3	11.9	<0.926
	1/28/2015	348	990.0	<0.14	<0.15	3,160	<0.450	14.1	<0.0266	0.768	88.8	10.0	<0.926
	7/22/2015	523	56	<0.14	<0.15	4,590	<0.383	13.1 E	0.120 J	NA	75.6	8.12	<1.09
MW-8	10/2/2013	--	5.54	<0.087	<0.071	600	NA	3.0	0.59	0.81	28	3.5	<0.59
	2/14/2014	INJECTION											
	4/29/2014	74	5.54	0.553 J	0.715 J	<0.13	2.7	<0.046 A	68	76	10	275	190
	7/30/2014	166	71	<0.14	<0.15	0.505 J	<0.450	<0.0175	121	112	12.9	301	404
	11/3/2014	262	690	<0.14	<0.15	0.369 J	0.600 J	0.0170 J	131	112	14.8	329	421
	1/26/2015	346	430	<0.14	<0.15	0.611 J	<0.450	0.0182 J	141	129	15.3	325	371
	7/21/2015	522	880	<0.14	<0.15	0.410 J	0.400 J	0.00780 J	144	NA	13.7	334	496
MW-18	10/2/2013	--	20.3	2.38	10.1	2,500	NA	17	2.0	3.5	80	36	<0.59
	2/14/2014	INJECTION											
	4/28/2014	73	6.59	0.168 J	0.431 J	3,200	<0.45	24 Aa, DH	0.20	0.76	85	40.3	<0.77
	7/29/2014	165	4.1	<0.14	<0.15	2,560	<0.450	12.3	0.200 J	<0.0694	79.1	11.5	<0.926
	11/4/2014	263	1.6	<0.14	<0.15	1,620	<0.450	4.78	0.110 J	0.321	68.7	10.2	<0.926
	1/28/2015	348	2.9 B	<0.14	<0.15	2,150	<0.450	5.13	0.0900 J	0.206	73.9	8.29	<0.926
	7/21/2015	522	14	<0.14	<0.15	2,240	<0.383	6.14	0.240 J	NA	62.5	7.07	<1.09
Compliance Shallow Monitoring Wells													
MW-1	10/2/2013	--	33.4	<0.087	<0.071	<0.13	NA	0.28	<0.020	<0.026	0.66	2.0	5.4
	11/5/2014	--	9.0	<0.14	<0.15	0.388 J	<0.450	0.352	<0.0266	<0.058	<1.150	0.443 J	9.76 J
	1/26/2015	--	3.2	<0.14	<0.15	0.713 J	<0.450	0.259	<0.0266	0.703	<1.150	0.514 J	9.87 J
	7/21/2015	--	0.36 J	<0.14	<0.15	0.266 J	<0.383	0.254	<0.0339	NA	<1.150	0.457 J	8.55 J
MW-5	10/2/2013	--	4.69 J	<0.087	<0.071	2,800	NA	29	<0.020	0.12	83	7.7	<0.59
	11/5/2014	--	5.3	<0.14	<0.15	2,480	<0.450	21.9	0.120 J	0.614	90.7	6.12	<0.926
	1/27/2015	--	1.0	<0.14	<0.15	2,550	<0.450	22.8	0.0700 J	1.300	90.5	5.21	<0.926
	7/22/2015	--	2.3	<0.14	<0.15	1,360	<0.383	14.4	<0.0339	NA	39.7	6.28	6.18 J
MW-7	1/16/2014	--	<0.435	<0.087	<0.071	63	NA	2.4	<0.039	0.063	3.5	0.70 J	6
	4/29/2014	--	<0.435	<0.087	<0.071	70	<0.45	2.7 A	<0.039	0.41	3.7	1.6	7.0
	7/29/2014	--	<0.048	<0.14	<0.15	56.5	<0.450	1.08	0.0400 J	0.142	0.268	0.273 J	8.25 J
	11/3/2014	--	0.54 JB	<0.14	<0.15	63.1	<0.450	1.63	<0.0266	0.0803 J	3.25 J	0.403 J	8.98 J
MW-9	10/1/2013	--	0.948 J	<0.087	<0.071	1.6	NA	<0.016	2.0	3.7	0.60	1.1	11
	4/29/2014	--	<0.435	<0.087	<0.071	33.0	<0.45	0.79 A	<0.039	0.35	1.0	0.75 J	12
	7/30/2014	--	0.57	<0.14	<0.15	14.3	<0.450	<0.0175	0.270 J	1.02	<1.64	<0.224	14.8
	11/3/2014	--	0.41 JB	<0.14	<0.15	24.7	<0.450	0.133	0.200 J	0.504	<1.150	0.277 J	12.1
	1/26/2015	--	0.48 J	<0.14	<0.15	48.1	<0.450	0.0409 J	0.0500 J	0.546	1.410 J	0.466 J	12.3
	7/22/2015	--	0.53 J	<0.14	<0.15	18.7	0.400 J	0.697	0.860	NA	<1.150	0.488 J	12.8

TABLE 4
SUMMARY OF NATURAL ATTENUATION PARAMETERS IN PERMANENT MONITORING WELLS
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Nitrate-N (mg/L)	Fe2+ (mg/L)	Iron (mg/L)	Magnesium (mg/L)	TOC (mg/L)	Alkalinity (mg/L)
NC 2L Standard			**NE**	**NE**	**NE**	**250**	**NE**	**10**	**NE**	**0.3**	**NE**	**NE**	**NE**
MW-11	10/2/2013	--	**1.2 J**	<0.087	<0.071	**14**	NA	<0.016	**1.6**	**3.1**	**2.2**	**1.20**	**50**
	11/4/2014	--	**0.64**	<0.14	<0.15	**4.41**	<0.450	**0.00670 J**	**2.38**	**2.8**	**1.970 J**	**0.396 J**	**41.3**
	1/26/2015	--	**0.84**	<0.14	<0.15	**6.28**	<0.450	**0.0160 J**	**2.15**	**2.970**	**2.050 J**	**0.500 J**	**38.9**
	7/22/2015	--	**1.50**	<0.14	<0.15	**5.66**	**0.400 J**	**0.0503**	**1.07**	NA	**1.280 J**	**4.96**	**21.5**
MW-13	10/1/2013	--	**8.92**	<0.087	<0.071	**4.5**	NA	**0.52**	<0.020	**0.46**	**0.61**	**1.0**	**22**
	11/5/2014	--	**0.54 J**	<0.14	<0.15	**3.34**	<0.450	**0.510**	**0.0600 J**	**2.31**	<1.150	**0.645 J**	**12.5**
	1/27/2015	--	**0.64**	<0.14	<0.15	**4.43**	<0.450	**0.406**	**0.110 J**	**3.54**	<1.150	**1.55**	**15.4**
	7/23/2015	--	**8.8**	<0.14	<0.15	**3.65**	**0.400 J**	**0.892**	**0.0400 J**	NA	<1.150	**1.48**	**13.1**
MW-17	10/2/2013	--	**10.7**	**0.166 J**	<0.071	**680**	NA	**8.7**	<0.020	**0.14**	**37**	**3.2**	<0.59
	11/4/2014	--	**14**	<0.14	<0.15	**5.22**	<0.450	**0.0607**	**262**	**188**	**29.4**	**290**	**558**
	1/27/2015	--	**91**	<0.14	<0.15	**1.19**	<0.450	<0.00518	**276**	**230**	**29.4**	**326**	**715**
	7/22/2015	--	**160**	<0.14	**0.72 J**	**0.323 J**	<0.383	0.0744	**152**	NA	**16.6**	**143**	**523**
MW-19	10/2/2013	--	**29.1**	<0.087	**0.361 J**	**3,300**	NA	**39**	<0.020	**0.55**	**70**	**7.7**	<0.59
	4/28/2014	--	**2.60**	<0.087	<0.071	**710**	<0.45	**15 Aa, DH**	<0.039	**0.33**	**22**	**11.0**	<0.77
	7/29/2014	--	**3.2**	<0.14	<0.15	**2,760**	<1	**1.61**	**20.1**	**23.3**	**96.5**	**129**	<0.926
	11/4/2014	--	**2.5**	**0.28 J**	<0.15	**1,820**	**7.20**	**0.139**	**61.7**	**45.9**	**53.6**	**35.2**	<0.926
	1/28/2015	--	**8.3 B**	<0.14	<0.15	**1,660**	**4.20**	**0.0581**	**86.4**	**78.3**	**53.8**	**14.7**	<0.926
	7/22/2015	--	**110**	<0.14	<0.15	**4,270**	**14.4**	**0.108**	**80.5**	NA	**97.1**	**53.8**	<1.09
MW-20	10/1/2013	--	**10.5**	<0.087	<0.071	**1,000**	NA	**10**	<0.020	**0.19**	**43**	**4.3**	<0.59
	1/16/2014	--	**11.3**	<0.087	<0.071	**870**	NA	**8.7**	<0.039	**0.25**	**40**	**5.9**	<0.77
	4/29/2014	--	**6.83**	<0.087	<0.071	**570**	**3.2**	<0.10 A	**3.4**	**0.97**	**6.2**	**30.4**	<0.77
	7/30/2014	--	**6.1**	<0.14	<0.15	**785**	<0.450	**1.94**	**7.54**	**7.71**	**37.6**	**5.41**	<0.926
	11/3/2014	--	**5.7 B**	<0.14	<0.15	**445**	**8.6**	**0.0671**	**34.8**	**33.9**	**25.2**	**51.3**	**104**
	1/26/2015	--	**6.9**	<0.14	<0.15	**145**	**1.6**	**0.0221 J**	**16.2**	**17.8**	**13.1**	**4.27**	**124**
	7/22/2015	--	**450**	<0.14	<0.15	**86.9**	**0.400 J**	**0.0586**	**76.0**	NA	**20.7**	**8.02**	**436**
Compliance Deep Monitoring Wells													
MW-14	10/1/2013	--	**6.98**	<0.087	**1.15**	**14**	NA	**0.11**	<0.020	**2.4**	**1.9**	**1.9**	**170**
	11/3/2014	--	**1.5 B**	<0.14	<0.15	**11.1**	<0.450	**0.00600 J**	**0.420**	**1.29**	<1.150	**2.33**	**241**
	1/26/2015	--	**5.5**	<0.14	<0.15	**11.0**	<0.450	**0.0159 J**	**1.50**	**1.11**	<1.150	**2.22**	**171**
	7/22/2015	--	**2.2**	<0.14	**1.2**	**11.3**	<0.383	**0.0136 J**	**0.290 J**	NA	<1.150	**3.29**	**341**
MW-15	10/2/2013	--	**16.2**	**0.373 J**	**0.852 J**	**5.8**	NA	**0.12**	<0.020	**1.2**	**2.4**	<0.3	**140**
	11/4/2014	--	**9.8**	<0.14	<0.15	**3.20**	<0.450	**0.0341 J**	**1.54**	**1.65**	**2.88 J**	**0.569 J**	**124**
	1/27/2015	--	**3.1**	<0.14	<0.15	**9.77**	<0.450	**0.0176 J**	**1.67**	**2.09**	**2.320 J**	**0.460 J**	**116**
	7/22/2015	--	**4.6**	<0.14	<0.15	**4.93**	**0.400 J**	**0.275**	**0.940**	NA	**2.100 J**	**0.907 J**	**111**

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
NE = Not established
Bolded values indicate concentration greater than the laboratory reporting limit.
J = Estimated concentration above the set method detection limit and below the set reporting limit.
Shaded cells are concentrations in excess of the NC 2L Standard.
Aa = Recovery for final CCV (112%) is outside the control limits
DH = Dilution for this sample/analyte was analyzed outside methods recommended hold time
B = Analyte found in the associated blank; indicates probable blank contamination.
NA = Not Analyzed
E =concentrations exceed the upper level of the calibration range of the instrument for that specific analysis

TABLE 5
SUMMARY OF MBT AND VFA DATA
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	MBT by CENSUS (cells/mL)				VFA by Method AM23G (mg/L)										
			DHC	TCE Reductase	BVC Reductase	VC Reductase	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid	Total[1]
Phase 1 Injection Shallow Monitoring Wells																	
MW-2	10/2/2013	--	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	0.79	0.069 J	0.020 J	0.082 J	0.036 J	0.070 J	<0.15	0.075	<0.10	<0.50	1.14
	10/31/2013	INJECTION															
	1/16/2014	77	NA	NA	NA	NA	3.2 J	370	360	6.2	49	6.6	2.0	30	<0.10	3.2	830
	4/28/2014	179	2.00E-01 J	<3.00E-01	<3.00E-01	<3.00E-01	3.1 J	460	330	15	37	56	<15	33	<10	<50	934
	5/29/2014	210	BIOAUGMENTATION														
	7/29/2014	271	NA	NA	NA	NA	<1.0	510	320	12	48	86	<1.5	46	5.3	22	1,049
	11/4/2014	369	4.58E+01	8.70E+00	<5.00E-01	1.00E-01 J	0.14 J	320	250	13	45	69	7.8	42	<2.0	19	766
	1/28/2015	454	7.91E+01	8.40E+00	<5.00E-01	<5.00E-01	<10	450	280	12	54	78	<1.5	37	<2.0	16	927
	7/21/2015	628	5.50E+00	<5.00E-01	<5.00E-01	<5.00E-01	0.51	100	82	1.4	6.2	8.4	2.0	5.8	0.57	1.8	208.7
MW-16	10/2/2013	--	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<0.10	0.095	0.025 J	0.10	0.040 J	<0.15	<0.15	0.16	<0.10	<0.50	0.42
	10/31/2013	INJECTION															
	1/16/2014	77	NA	NA	NA	NA	0.18 J	220	62	3.0	4.6	0.26	0.24	0.95	<0.10	0.38 J	292
	4/28/2014	179	3.00E-01 J	<3.00E-01	<3.00E-01	<3.00E-01	5.9 J	230	190	11	16	9.0	1.4 J	7.0	<1.0	<5.0	470
	5/29/2014	210	BIOAUGMENTATION														
	7/29/2014	271	NA	NA	NA	NA	<10	390	220	11	45	47	<1.5	36	1.1 J	4.6 J	755
	11/4/2014	369	4.80E+00	<5.00E-01	<5.00E-01	<5.00E-01	<1.0	400	120	6.6	45	26	3.6	16	<2.0	11	628
	1/28/2015	454	3.60E+00	<5.00E-01	<5.00E-01	<5.00E-01	<10	510	93	6.2	47	9.5	2.5	6.8	<2.0	8.2	683
	7/21/2015	628	1.96E+02	<5.00E-01	2.68E+01	6.30E+00	<10	690	38	5.3 J	47	7.2	1.8	2.9	1.1 J	6.5	800
Phase 2 Injection Shallow Monitoring Wells																	
MW-4	10/2/2013	--	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	3.6	0.51 J	<0.50	0.77 J	<0.50	<1.5	<1.5	<0.70	<1.0	<5.0	4.88
	2/14/2014	INJECTION															
	4/28/2014	73	<3.00E-01	<3.00E-01	<3.00E-01	<3.00E-01	<1.0	2.0	0.37 J	0.58 J	<0.50	<1.5	<1.5	<0.70	<1.0	<5.0	2.95
	5/29/2014	104	BIOAUGMENTATION														
	7/29/2014	165	5.10E+00	1.00E-01 J	<5.00E-01	1.00E-01 J	0.43 J	0.45 J	0.32 J	0.18 J	<0.50	<1.5	<1.5	<0.70	<2.0	<5.0	1.38
	11/4/2014	263	<4.00E-01	<4.00E-01	<4.00E-01	<4.00E-01	0.42 J	0.65 J	0.37 J	0.65 J	<0.50	<1.5	<1.5	<0.70	<2.0	<5.0	2.09
	1/28/2015	348	1.70E+00	<5.00E-01	1.51E+00	<5.00E-01	1.6	0.98	<0.50	0.62 J	0.52	<1.5	<1.5	1.2	<2.0	<5.0	4.92
	7/22/2015	523	6.06E+02	<5.00E-01	2.25E+02	1.22E+01	<1.0	0.20 J	0.042 J	0.33 J	0.043 J	<1.5	<1.5	<0.70	<2.0	<5.0	0.62
MW-18	10/2/2013	--	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	1.8	13	0.36	0.27	0.11	0.10 J	<0.15	0.19	<0.10	<0.50	15.8
	2/14/2014	INJECTION															
	4/28/2014	73	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<1.0	3.3	0.61	0.76 J	0.40 J	0.57 J	0.64 J	<0.70	<1.0	<5.0	6.28
	5/29/2014	104	BIOAUGMENTATION														
	7/29/2014	165	6.60E+00	1.50E+00	<5.00E-01	<5.00E-01	0.18 J	2.5	<0.50	0.17 J	<0.50	<1.5	<1.5	<0.70	<2.0	<5.0	2.85
	11/4/2014	263	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	0.23 J	7.4	0.75	0.77 J	<0.50	<1.5	<1.5	<0.70	<2.0	<5.0	9.15
	1/28/2015	348	2.70E+00	<5.00E-01	<5.00E-01	<5.00E-01	1.0	4.3	<0.50	0.48 J	<0.50	<1.5	<1.5	1.3	<2.0	<5.0	7.08
	7/22/2015	523	2.20E+00	<5.00E-01	1.70E+00	<5.00E-01	<0.10	2.3	<0.050	0.11	0.079	0.049 J	<0.15	<0.070	<0.2	0.036 J	2.57
Compliance Shallow Monitoring Wells																	
MW-19	10/3/2013	--	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	3.6	0.47 J	<0.50	1.3	<0.50	<1.5	<1.5	<0.70	<1.0	<5.0	5.37
	4/28/2014	--	NA	NA	NA	NA	0.093 J	0.051 J	<0.050	0.094 J	<0.050	<0.15	<0.15	<0.070	<0.10	<0.50	0.24
	7/29/2014	--	2.82E+01	3.00E+00	<5.00E-01	3.00E-01 J	0.27 J	27	17	1.2	2.8	0.51 J	0.50 J	1.8	1.4 J	<5.0	52
	11/4/2014	--	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	0.32 J	19	2.4	1.1	0.97	0.50 J	1.0 J	<0.70	<2.0	<5.0	25
	1/28/2015	--	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	1.4	2.4	0.44 J	0.42 J	<0.50	<1.5	<1.5	<0.70	<2.0	<5.0	4.7
	7/22/2015	--	8.50E+02	<5.00E-01	3.18E+02	1.96E+01	0.11 J	68	1.2	0.27	2.5	0.14 J	0.097 J	0.016 J	<0.20	0.40 J	72.7

Notes:
mg/L = milligrams per liter
1. Total VFA calculated as the sum of all concentrations detected above the laboratory detection limit.
J = Estimated concentration greater than the set method detection limit and less than the set reporting limit.
NA = Not analyzed

TABLE 6
CHLORINE NUMBER FOR INJECTION ZONE MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	PCE		TCE		*c* DCE		VC		Ethene		Chlorine Number (µmol/L)
Molecular Weight (µg/µmol)			165.8		131.40		96.95		62.50		28.05		
Unit			(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	
Phase 1 Injection Shallow Monitoring Wells													
MW-2	6/18/2008	--	8,820	53.20	1,080	8.22	4.4	0.05	0.3	0.00	NA	0	3.86
	4/7/2009	--	7,140	43.06	879	6.69	100	1.03	3.1	0.05	NA	0	3.82
	7/28/2010	--	5,150	31.06	624	4.75	160	1.65	160	2.56	NA	0	3.61
	10/2/2013	--	6,300	38.00	570	4.34	3.8	0.04	8	0.13	0.53	0.02	3.89
	10/31/2013	INJECTION											
	1/16/2014	77	37	0.22	36	0.27	1,900	19.60	1.55	0.02	0.54	0.02	2.03
	4/28/2014	179	29	0.17	25	0.19	1,900	19.60	43	0.69	0.80	0.03	1.99
	7/29/2014	271	43	0.26	44	0.33	2,400	24.76	53	0.85	0.08	0.003	2.00
	11/4/2014	369	9.1	0.05	14	0.11	2,700	27.85	58	0.93	0.82	0.03	1.97
	1/28/2015	454	9.1	0.05	14	0.11	3,000	30.94	81	1.30	0.08	0.003	1.97
	7/21/2015	628	5.7	0.03	12	0.09	2,900	29.91	66	1.06	0.08	0.003	1.97
MW-16	10/2/2013	--	3,300	19.90	310	2.36	1.9	0.02	3.9	0.06	0.235	0.01	3.88
	10/31/2013	INJECTION											
	1/16/2014	77	3.45	0.02	18,000	136.99	680	7.01	8.0	0.13	0.241	0.01	2.95
	4/28/2014	179	1.7	0.01	740	5.63	9,400	96.96	3.9	0.06	0.49	0.02	2.05
	7/29/2014	271	1.9	0.01	51	0.39	9,100	93.86	120.0	1.92	0.08	0.003	1.98
	11/4/2014	369	7.0	0.04	13	0.10	2,900	29.91	35.0	0.56	0.08	0.003	1.99
	1/28/2015	454	2.2	0.01	1.1	0.01	2,300	23.72	26.0	0.42	0.08	0.003	1.98
	7/22/2015	629	3.8	0.02	1.9	0.01	3,200	33.01	21.0	0.34	0.08	0.003	1.99
Phase 2 Injection Shallow Monitoring Wells													
MW-3	6/18/2008	--	573	3.46	2.8	0.02	0.095	0.00	0.31	0.00	NA	0	3.99
	7/29/2010	--	1,630	9.83	40	0.30	40	0.41	40	0.64	NA	0	3.73
	10/2/2013	--	1,800	10.86	0.135	0.00	0.19	0.00	0.39	0.01	0.0355	0.001	4.00
	2/14/2014	INJECTION											
	7/30/2014	166	900	5.43	1.2	0.01	0.78	0.01	0.035	0.001	0.075	0.003	3.99
	11/4/2014	263	770	4.64	0.375	0.003	0.375	0.004	0.9	0.01	0.08	0.003	3.99
	1/26/2015	346	740	4.46	0.375	0.003	0.375	0.004	0.9	0.01	0.08	0.003	3.99
	7/21/2015	522	280	1.69	3.7	0.028	0.49	0.005	0.29	0.00	0.08	0.003	3.96
MW-4	6/18/2008	--	2,320	13.99	1,030	7.84	1.0	0.01	0.3	0.005	NA	0	3.64
	7/28/2010	--	18,200	109.77	3,460	26.33	625	6.45	625	10.00	NA	0	3.55
	10/30/2012	--	25,800	155.61	3,380	25.72	2.24	0.02	4.825	0.08	NA	0	3.86
	1/31/2013	--	37,000	223.16	4,200	31.96	19	0.20	39	0.62	NA	0	3.87
	10/2/2013	--	30,000	180.94	4,800	36.53	3.8	0.04	8	0.13	0.0355	0.001	3.83
	1/15/2014	--	22,000	132.69	5,200	39.57	1.9	0.02	3.9	0.06	NA	0	3.77
	2/14/2014	INJECTION											
	4/28/2014	103	29,000	174.91	5,300	40.33	1.9	0.02	3.9	0.06	0.0355	0.001	3.81
	7/29/2014	165	19,000	114.60	5,300	40.33	6.4	0.07	0.19	0.00	0.08	0.003	3.74
	11/4/2014	293	26,000	156.82	4,800	36.53	10.5	0.11	25	0.40	0.08	0.003	3.80
	1/28/2015	378	31,000	186.97	4,900	37.29	3.0	0.03	7	0.11	0.08	0.003	3.83
	7/22/2015	523	31,000	186.97	4,100	31.20	2.8	0.03	1.75	0.03	0.08	0.003	3.86

TABLE 6
CHLORINE NUMBER FOR INJECTION ZONE MONITORING WELLS
FORMER EATON CORPORATION
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well ID	Date	Days Post Injection	PCE		TCE		*c* DCE		VC		Ethene		Chlorine Number (µmol/L)
Molecular Weight (µg/µmol)			165.8		131.40		96.95		62.50		28.05		
Unit			(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	(µg/L)	(µmol/L)	
MW-8	7/28/2010	--	974	5.87	25	0.19	25	0.26	25	0.40	NA	0	3.72
	10/30/2012	--	874	5.27	58.2	0.44	1.72	0.02	0.193	0.00	NA	0	3.91
	1/31/2013	--	2,100	12.67	150	1.14	0.8	0.01	1.55	0.02	NA	0	3.91
	10/2/2013	--	2,200	13.27	120	0.91	0.19	0.00	0.39	0.01	NA	0	3.93
	1/15/2014	--	1,900	11.46	130	0.99	2.6	0.03	0.39	0.01	0.036	0.001	3.91
	2/14/2014	INJECTION											
	4/29/2014	74	65	0.39	13	0.10	5.8	0.06	0.39	0.01	0.715	0.03	3.42
	7/30/2014	166	40	0.24	16	0.12	210	2.17	3.2	0.05	0.075	0.003	2.21
	11/3/2014	262	38	0.23	11	0.08	360	3.71	6.7	0.11	0.075	0.003	2.10
	1/26/2015	346	37	0.22	8.8	0.07	420	4.33	10	0.16	0.075	0.003	2.07
	7/22/2015	523	3.0	0.02	40.0	0.30	620	6.40	13	0.21	0.08	0.003	2.02
MW-18	10/2/2013	--	110,000	663.45	22,000	167.43	380	3.92	15.5	0.25	10.1	0.36	3.79
	1/15/2014	--	50,000	301.57	6,000	45.66	7.5	0.08	15.5	0.25	NA	0	3.87
	2/14/2014	INJECTION											
	4/28/2014	73	66,000	398.07	14,000	106.54	7.5	0.08	15.5	0.25	0.431	0.02	3.79
	7/29/2014	165	62,000	373.94	10,000	76.10	19	0.20	1.2	0.02	0.075	0.003	3.83
	11/4/2014	263	88,000	530.76	20,000	152.21	47	0.48	110	1.76	0.075	0.003	3.77
	1/28/2015	348	110,000	663.45	20,000	152.21	14	0.14	7	0.11	0.075	0.003	3.81
	7/21/2015	522	120,000	723.76	18,000	136.99	55	0.57	125	2.00	0.08	0.003	3.83

Notes:
µg/L = micrograms per liter
µmol/L = micromoles per litre
µg/µmol = micrograms per micromoles
Data reported less than the MDL was replaced with half of the reported MDL value in order to complete calcuations (see Table 4 for the reported MDL values)
Data qualifers were removed from the table to complete calcuations (see Table 4 for data qualifers)
NA = Not analyzed
Caclulations regarding NA ethene data (µmol/L) were considered to be zero (0)

APPENDIX A

GROUNDWATER SAMPLING LOGS

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC
Well Number: MW-1	**Sample ID:** MW-1	**Date:** 7/21/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	6.35	Peristaltic pump	15-20

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2.5' off bottom	1143	1235	2.0	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1148	.20	.20	200	6.64	3.73	20.11	52	2.00	4.21	-184.1	Clear	none
1210	.80	1.0	200	6.65	4.57	19.98	59	0.81	4.13	33.2	CLEAR	NONE
1225	.60	1.60	200	6.67	4.50	20.24	58	0.69	4.08	33.9	CLEAR	NONE
1230	.20	1.80	200	6.68	4.49	20.12	58	0.59	3.88	33.7	CLEAR	NONE
1235	.20	2.00	200	6.68	4.52	19.87	58	0.55	3.87	32.8	CLEAR	NONE

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
DANIEL BEALL SIES	Daniel Beall	1235	1310

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
—	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
—	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	

Remarks: (*) made repairs to YSI after 1148 reading. Issues w/ conductivity. SWAPPED OUT YSI FOR NEW ONE AT 1215. RAN OUT OF H2O FOR VOC

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: MW-2 | **Sample ID:** MW-2 | **Date:** 7/21/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.44	Peristaltic pump	25-30

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2½' off bottom	1345	1515	3.51	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1350	.25	.25	200	7.15	5.49	24.19	935	0.49	95.1	-33.8	CLEAR	NONE
1355	.23	.48	180	7.46	5.59	23.00	960	0.28	69.5	-40.4		
1400	.23	.71	180	7.64	5.67	22.73	981	0.18	63.9	-48.0		
1405	.23	.94	180	7.95	5.83	22.71	1019	0.08	61.8	-57.1		
1410	.23	1.17	180	8.14	5.99	22.31	1078	0.06	31.7	-68.5		
1415	.18	1.35	140	8.23	6.16	22.62	1118	0.05	23.0	-86.8		
1425	.36	1.71	140	8.31	6.14	22.42	1114	0.05	17.3	-88.2		
1435	.36	2.07	140	8.46	6.19	22.51	1115	0.04	15.5	-93.3		
1445	.36	2.43	140	8.72	6.15	22.29	1120	0.05	23.7	-93.4		
1455	.36	2.79	140	8.66	6.23	22.38	1135	0.04	20.6	-100.0		
1505	.36	3.15	140	8.61	6.26	22.58	1158	0.05	19.2	-101.3		
1515	.36	3.51	140	8.69	6.28	22.31	1178	0.05	15.9	-105.1		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
DANIEL BEALL SIES	Daniel Beall	1515	1540

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
2	2	AG	40ml	BAK	VFA	
1	1	PE	1L	None	MBT	

Remarks: * Collect Dup-1 (VOC only) - DUP-1 x2 VOC (NOT ENOUGH FOR 3rd) SWITCHED TO 10 MIN INTERVALS AT 1415 SAMPLED DUE TO TURBITY NEVER GOING UNDER 10

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		Site Location: Selma, NC	
Well Number: MW-3	Sample ID: MW-3	Date: 7/21/15	

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.25	Peristaltic pump	15-20

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2.5' off bottom	1335	1440	3.25	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1340	.25	.25	200	5.65	4.80	23.03	1110	0.31	43.4	-147.8	clear	none
1350	.50	.75	200	5.65	4.62	23.18	1206	0.37	42.2	-159.7		Slight Sulfur
1355	.25	1.0	200	5.65	4.52	23.32	1303	0.33	25.1	-156.1		
1400	.25	1.25	200	5.65	4.44	23.42	1389	0.31	25.0	-155.4		
1410	.50	1.75	200	5.65	4.38	23.12	1560	0.29	24.8	-152.3		
1415	.25	2.0	200	5.65	4.29	23.01	1681	0.27	19.7	-149.2		
1420	.25	2.25	200	5.65	4.26	22.77	1747	0.28	12.7	-145.2		
1425	.25	2.50	200	5.65	4.24	22.75	1760	0.27	9.51	-141.6		
1430	.25	2.75	200	5.65	4.26	22.79	1766	0.26	9.03	-139.4		
1435	.25	3.0	200	5.65	4.27	22.81	1772	0.26	8.62	-138.7		
1440	.25	3.25	200	5.65	4.25	22.84	1776	0.27	7.96	-137.1		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jacobs - SIES	[signature]	1440	1505

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
					TKP	
1	1	PE	250 ml	none	Bromide	
1	1	PE	250 ml	HNO3	TOTAL Sulfur	
1	1	PE	1 L	None	MBT	
2	2	AG	40 ml	BAK	VFA	

Remarks:

Field Kits: * rc-Tubed 25'

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC	
Well Number: MW-4	**Sample ID:** MW-4	**Date:** 7/22/15	

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.60	Peristaltic pump	~~20-30~~ 15-20

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	10:30	1055	1.25	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1035	.25	.25	200	5.85	3.47	19.72	4008	1.69	12.6	227.4	clear	none
1040	.25	.50	200	5.85	3.41	19.90	4010	0.71	10.3	252.0		
1045	.25	.75	200	5.85	3.43	19.97	3970	0.56	8.14	260.6		
1050	.25	1.0	200	5.85	3.45	19.95	3973	0.58	3.36	261.1		
1055	.25	1.25	200	5.85	3.44	19.88	3979	0.61	2.74	262.3		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarvis	[signature]	1055	1130

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
1	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
1	1	PE	1L	NON	MBT	
2	2	AG	40m	HCL	VFA	

Remarks:

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)
Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump
Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)
Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: MW-5 | **Sample ID:** MW-5 | **Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	2.75	Peristaltic pump	15-20

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2½' off bottom	7:10	815	2.15	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
715	.25	.25	200	5.25	7.41	20.82	788	1.97	40.3	143.1	clear	none
720	.20	.45	150	6.03	8.35	21.28	702	1.97	29.6	119.6		
725	.20	.65	150	6.50	8.65	21.17	655	2.12	27.1	116.1		
730	.15	.80	125	6.65	8.69	21.34	720	1.68	23.7	116.8		
740	.30	1.10	125	6.80	8.20	21.28	799	1.57	32.1	120.3		
(*) 745	.15	1.25	125	6.83	5.15	21.29	1235	1.29	38.5	159.8		
750	.15	1.40	125	6.84	4.84	21.38	1395	0.99	28.4	169.2		
800	.30	1.70	125	6.84	4.55	21.21	1799	1.33	12.1	176.0		
805	.15	1.85	125	6.84	4.52	21.25	1840	0.88	9.64	178.4		
810	.15	2.0	125	6.84	4.50	21.29	1873	0.84	8.20	179.2		
815	.15	2.15	125	6.84	4.48	21.34	1914	0.80	7.16	181.6		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarvah - Sies	[signature]	815	840

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
1					TKN (351.2)	

Remarks: (*) Drastic change @ 7:45. ≈ stabilization of WL. & draw down

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)
Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump
Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)
Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: MW-7 | **Sample ID:** MW-7 | **Date:** 7/23/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.90	Peristaltic pump	20-30'

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	850	930	1.6	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
855	.20	.20	150	6.10	3.75	19.71	222	2.90	59.0	167.0	clear	none
900	.20	.40	150	6.10	3.70	19.54	216	1.81	53.4	161.7		
905	.20	.60	150	6.10	3.68	19.48	205	1.67	50.8	155.0		
915	.40	1.0	150	6.10	4.51	19.35	208	0.77	8.04	163.6		
920	.20	1.2	150	6.10	4.89	19.33	212	0.68	6.51	162.9		
925	.20	1.4	150	6.10	4.92	19.26	214	0.65	4.98	164.1		
930	.20	1.6	150	6.10	4.95	19.21	216	0.63	5.11	161.8		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sam Jarrah - SIES	[signature]	930	935

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ~~ID~~ Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** ± 0.1 units; **Specific Conductance:** ± 5%; **Turbidity:** < 10 NTU or stabile

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SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC
Well Number: MW-8	**Sample ID:** MW-8	**Date:** 7/21/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	HDPE Teflon	5.64	Peristaltic pump	~~15-20~~ 20-30

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2 1/2' off bottom	1220	1255	1.4	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1225	.20	.20	150	7.26	5.75	21.46	932	0.81	61.6	-116.1	clear	none
1230	.20	.40	150	7.27	5.69	21.51	930	0.39	30.2	-124.3		
1235	.20	.60	150	7.27	5.68	21.44	926	0.37	28.6	-124.0		
1240	.20	.80	150	7.28	5.68	21.36	921	0.36	27.4	-125.4		
1245	.20	1.0	150	7.28	5.67	21.31	918	0.35	26.0	-126.5		
1250	.20	1.2	150	7.29	5.67	21.37	915	0.34	27.2	-126.8		
1255	.20	1.4	150	7.30	5.67	21.39	913	0.33	26.9	-126.9		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarrett - Solutions	Sean Jarrett	1255	1325

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Bottle Filled

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
~~1~~	~~V~~	~~PE~~	~~1L~~	~~None~~	~~MBT~~	
~~2~~	~~2~~	~~AG~~	~~40 mL~~	~~BAK~~	~~VFA~~	

Remarks:

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: MW-9 | **Sample ID:** MW-9 | **Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	6.60	Peristaltic pump	28-38

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	1345	1410	1.25	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1350	.25	.25	200	7.10	4.43	22.02	67	0.82	16.2	-1.2	clear	none
1355	.25	.50	200	7.10	4.48	21.51	92	0.62	9.90	-16.1		
1400	.25	.75	200	7.10	4.47	21.47	96	0.49	9.27	-39.6		
1405	.25	1.0	200	7.10	4.47	21.43	98	0.43	9.64	-44.4		
1410	.25	1.25	200	7.10	4.48	21.45	101	0.41	9.20	-45.8		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarrett - Pies	Sean Jarrett	1410	1425

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	

Remarks:

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

Solutions-IES
Industrial & Environmental Services

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC	
Well Number: MW-11	**Sample ID:** MW-11	**Date:** 7/22/15	

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	4.50	Peristaltic pump	24-34

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	1245	1320	1.4	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1250	.20	.20	150	5.10	3.60	20.36	58	1.75	60.0	-67.2	Slight Cloudy	none
1255	.20	.40	150	5.11	4.75	20.05	57	1.49	29.2	-98.2	Clear	Slight Sulfur
1300	.20	.60	150	5.11	4.92	20.98	57	1.37	26.3	-106.6	↓	↓
1305	.20	.80	150	5.11	4.95	20.93	60	1.39	24.8	-115.4		
1310	.20	1.0	150	5.11	4.99	20.89	63	1.42	22.7	-118.7		
1315	.20	1.2	150	5.11	5.02	20.95	65	1.40	24.5	-121.1		
1320	.20	1.4	150	5.11	4.99	20.88	64	1.35	24.0	-114.0	✓	✓

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarvis - SIES	[signature]	1320	1335

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	↓
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	✓

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** ± 0.1 units; **Specific Conductance:** ± 5%; **Turbidity:** < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC	
Well Number: MW-13	**Sample ID:** MW-13	**Date:** 7/23/15	

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	(1/4) (3/8) 1/2	(LDPE) Teflon	8.29	Peristaltic pump	21-31

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	0850	1010	3.45	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
0855	.25	.25	200	8.64	4.57	17.69	74	0.16	29.3	37.7	CLEAR	NONE
0900	.25	.50	200	8.69	4.68	17.57	73	0.24	33.8	34.6		
0905	.25	.75	200	8.68	4.72	17.70	73	0.38	44.9	31.6		
0910	.25	1.00	200	8.68	4.87	17.98	73	0.32	41.3	26.4		
0915	.25	1.25	200	8.68	5.05	17.86	71	0.34	40.2	20.5		
0920	.20	1.45	150	8.58	5.13	19.06	73	0.31	37.5	12.6		
0925	.20	1.65	150	8.62	5.12	18.13	71	0.38	32.7	16.8		
0930	.20	1.85	150	8.63	5.16	18.23	71	0.39	28.4	14.4		
0940	.40	2.25	150	8.62	5.16	17.93	70	0.52	14.4	15.0		
0950	.40	2.65	150	8.62	5.08	18.16	70	0.74	13.2	18.3		
1000	.40	3.05	150	8.63	5.14	18.16	70	0.75	12.8	17.3		
1010	.40	3.45	150	8.62	5.15	18.00	69	0.77	10.3	14.7		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
DANIEL BEALL SIES	Daniel Beall	1010	1030

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	

Remarks: SLOWED TO 150 TO SEE IF IT HELPS TURBIDITY, TURBIDITY DROPPING CONSISTANTLY AT 150 ml/MIN. STARTED 10 MIN INTERVALS AT 0930.

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: MW-14 | **Sample ID:** MW-14 | **Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.50	Peristaltic pump	47-57

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	850	925	1.6	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
855	.40	.40	300	9.00	11.12	20.50	1119	0.49	7.55	85.7	clear	none
900	.20	.60	150	9.50	11.26	20.54	1128	0.47	5.51	76.1		
910	.40	1.0	150	10.55	11.32	20.24	1121	0.43	4.17	66.3		
915	.20	1.2	150	10.92	11.32	20.20	1118	0.41	3.87	59.9		
920	.20	1.4	150	11.60	11.33	20.16	1105	0.39	3.76	53.5		
925	.20	1.6	150	12.00	11.30	20.21	1100	0.36	3.94	50.1		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Tarwater - Site	[signature]	925	945

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
1					TKN (351.2)	

Remarks:

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC
Well Number: MW-15	**Sample ID:** MW-15	**Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.40	Peristaltic pump	UNKNOWN

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2'2' off bottom	1450	1510	0.96	180

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1455	.24	.24	180	7.80	6.72	23.10	246	0.38	8.05	-44.0	CLEAR	NONE
1500	.24	.48	180	8.32	6.54	22.31	245	0.26	6.55	-27.8	↓	↓
1505	.24	.72	180	8.98	6.50	21.57	245	0.23	3.33	-24.6	↓	↓
1510	.24	.96	180	9.57	6.60	21.15	244	0.25	4.90	-28.4	↓	↓

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
DANIEL BEALL SIES	Daniel Beall	1510	1530

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	↓
1	1	PE	250 ml	HNO3	Total Mg (6010)	↓
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	↓
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	↓
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	↓
					TKN (351.2)	↓

Remarks:

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)
Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump
Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)
Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC
Well Number: MW-16	**Sample ID:** MW-16	**Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	9.40	Peristaltic pump	15-25

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	1135	1210	1.75	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1140	.25	.25	200	9.46	5.71	22.42	1570	0.48	23.1	-53.8	CLEAR	NONE
1145	.25	.50	200	9.47	5.68	22.28	1540	0.20	11.2	-49.9		
1150	.25	.75	200	9.47	5.71	22.14	1514	0.15	13.9	-56.1		
1155	.25	1.00	200	9.47	5.77	21.99	1513	0.11	6.71	-57.9		
1200	.25	1.25	200	9.47	5.86	21.73	1495	0.08	4.85	-61.5		
1205	.25	1.50	200	9.46	5.89	21.83	1498	0.07	5.23	-63.2		
1210	.25	1.75	200	9.46	5.91	21.79	1492	0.05	2.86	-63.9		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
DANIEL BEALL SIES	Daniel Beall	1210	1235

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
1	1	PE	1L	None	MBT	
2	2	AG	40m	BAK	VFA	

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** ± 0.1 units; **Specific Conductance:** ± 5%; **Turbidity:** < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC	
Well Number: MW-17	**Sample ID:** MW-17	**Date:** 7/22/15	

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(HDPE) Teflon	6.56	Peristaltic pump	15-25

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	1515	1540	1.0	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1520	.20	.20	150	6.70	6.40	22.47	1093	0.64	19.0	-104.6	Clear	none
1525	.20	.40	150	6.69	6.37	22.39	1000	0.55	11.3	-103.1	↓	↓
1530	.20	.60	150	6.68	6.38	22.42	975	0.45	8.99	-105.9	↓	↓
1535	.20	.80	150	6.68	6.38	22.50	962	0.40	6.74	-106.3	↓	↓
1540	.20	1.0	150	6.68	6.39	22.54	959	0.36	6.06	-106.8	↓	↓

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarrah - S-ie	[signature]	1540	1555

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	↓
1	1	PE	250 ml	HNO3	Total Mg (6010)	↓
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	↓
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	↓
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	↓
1					TKN (351.2)	↓

Remarks:

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: MW-18 | **Sample ID:** MW-18 | **Date:** 7/21/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(DPE) Teflon	5.45	Peristaltic pump	15-25'

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	1515	1550	1.75	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1520	.25	.25	200	5.55	3.56	21.10	3548	1.78	118	185.2	Clear	none
1525	.25	.50	200	5.56	3.57	21.11	3561	1.45	94.1	186.0		
1530	.25	.75	200	5.56	3.55	20.47	3564	1.43	43.0	188.2		
1535	.25	1.0	200	5.56	3.56	20.25	3502	0.88	17.6	189.7		
1540	.25	1.25	200	5.56	3.55	20.33	3429	0.59	9.42	190.7		
1545	.25	1.50	200	5.56	3.55	20.34	3410	0.43	6.71	191.6		
1550	.25	1.75	200	5.56	3.56	20.36	3401	0.40	7.10	192.4		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Joseph - SIES	[signature]	1550	1610

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
5	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
	1	PE	250		TKN (351.2)	
1	1	PE	1L	None	MBT	
2	2	AG	40 mL	BAK	VFA	

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** ± 0.1 units; **Specific Conductance:** ± 5%; **Turbidity:** < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC
Well Number: mw-18	**Sample ID:** MW-18 - RESAmpl	**Date:** 7/22/15

PURGING DATA

Well Diameter (inches): 1 (2) 3 4	**Tubing Diameter (inches):** 1/4 (3/8) 1/2	**Tubing:** (HDPE) Teflon	**Static Depth to water (ft btoc):** 5.60	**Purge pump type or bailer:** Peristaltic pump	**Well Screen Depth (ft bgs):** 15-25
Initial Pump or Tubing Depth in well: 5' off bottom		**Purging Initiated:** 955	**Purging Ended:** 10:15	**Total Volume Purged (Gallons):** 1.0	**Sample Pump Flow Rate (mL/min):** 150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
955	.20	.20	150	5.68	5.57	20.40	3766	0.91	62.4	180.6	Clear	none
1000	.20	.40	150	5.68	5.58	20.37	3419	0.62	14.6	189.7		
1005	.20	.60	150	5.67	5.58	20.34	3392	0.48	9.00	189.1		
1010	.20	.80	150	5.67	5.57	20.31	3786	0.37	7.91	192.4		
1015	.20	1.0	150	5.67	5.57	20.29	3780	0.31	6.66	194.1		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation: Sean Jones - SIES	**Sampler(s) Signature:** [signature]	**Sampling Initiated:** 10:15	**Sampling Ended:** 10:25

Field Decontamination: Y (N)	**Field-Filtered:** Y (N)	**Filter Size:** — µm	**Filtration Equipment Type:**	**Duplicate:** Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	3	CG	40 ML	HCL	VOC (8260B)	~~RFPP~~
	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
		PE	250 ml	HNO3	Total Mg (6010)	
	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
	2	CG	40 ml	H2SO4	TOC (SM5310B)	
	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
	2	PE	500m	None	MBT-DHC	

Remarks: Re-Sample for MBT's

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stabile

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC
Well Number: MW-19	**Sample ID:** MW-19	**Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.32	Peristaltic pump	15-25

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	1140	1215	1.75	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1145	.25	.25	200	5.45	3.91	23.89	4373	0.64	49.2	-47.8	clear	none
1150	.25	.50	200	5.45	3.92	23.69	4215	0.49	54.7	-74.0		Sulfur
1155	.25	.75	200	5.45	3.92	24.89	3990	0.45	52.2	-89.2		
1200	.25	1.0	200	5.45	3.93	24.64	3802	0.44	60.3	-94.3		
1205	.25	1.25	200	5.45	3.93	24.58	3479	0.42	57.1	-98.6		
1210	.25	1.50	200	5.45	3.94	24.47	3397	0.42	55.9	-99.2		
1215	.25	1.75	200	5.45	3.94	24.45	3314	0.43	53.1	-99.8		

Well Capacity (Gallons/Foot): 0.75" = 0.02 1" = 0.04 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 12" = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): 1/8" = 0.0006 3/16" = 0.0014 1/4" = 0.0026 5/16" = 0.004 3/8" = 0.006 1/2" = 0.010 5/8" = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarrett - SIU	[signature]	1215	1235

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
1	1	PE	1L	None	MBT	
2	2	AG	40mL	BAK	VFA	

Remarks:

Field Kits:

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)

Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTU or stable

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GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma, NC	
Well Number: MW-20	**Sample ID:** MW-20	**Date:** 7/22/15	

PURGING DATA

Well Diameter (inches): 1 (2) 3 4	**Tubing Diameter (inches):** 1/4 (3/8) 1/2	**Tubing:** (LDPE) Teflon	**Static Depth to water (ft btoc):** 6.35	**Purge pump type or bailer:** Peristaltic pump	**Well Screen Depth (ft bgs):** 15-25
Initial Pump or Tubing Depth in well: 5' off bottom	**Purging Initiated:** 1430	**Purging Ended:** 1450	**Total Volume Purged (Gallons):** 0.80	**Sample Pump Flow Rate (mL/min):** 150	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1435	.20	.20	150	6.45	6.15	25.51	1115	0.72	4.33	-84.1	clear	none
1440	.20	.40	150	6.45	6.20	25.67	1123	0.42	2.90	-112.8		
1445	.20	.60	150	6.45	6.20	25.21	1122	0.36	2.11	-120.7		
1450	.20	.80	150	6.45	6.19	25.25	1115	0.32	1.99	-126.7		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation: Sean Jarrett-Sio	**Sampler(s) Signature:** [signature]	**Sampling Initiated:** 1450	**Sampling Ended:** 1505
Field Decontamination: Y (N)	**Field-Filtered:** Y (N)	**Filter Size:** µm	**Filtration Equipment Type:** —
			Duplicate: Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Nitrate/Sulfate (IC300) +Alk (310.2)	APP
1	1	PE	100 ml	HCL	Fe+ (SM3500- FeB)	
1	1	PE	250 ml	HNO3	Total Mg (6010)	
2	2	CG	40 ml	HCL	MEE +Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** ± 0.1 units; **Specific Conductance:** ± 5%; **Turbidity:** < 10 NTU or stabile

Solutions-IES
Industrial & Environmental Services

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: IW-2A | **Sample ID:** IW-2A | **Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	LDPE Teflon	9.19	Peristaltic pump	10-20'

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
4' off bottom	0940	1040	3.12	240

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
0945	.31	.31	240	10.81	6.38	19.99	1597	0.50	156	-102.4	CLEAR	NONE
0950	.31	.62	240	11.00	6.27	19.75	1592	0.91	165	-90.4		
0955	.25	.87	200	11.14	6.18	19.72	1593	0.30	161	-82.9		
1000	.25	1.12	200	11.19	6.19	19.52	1594	0.21	157	-83.1		
1005	.25	1.37	200	11.31	6.23	19.64	1597	0.14	153	-86.3		
1010	.25	1.62	200	11.39	6.22	19.55	1598	0.09	140	-88.4		
1015	.25	1.87	200	11.48	6.23	19.37	1599	0.08	119	-91.5		
1020	.25	2.12	200	11.57	6.19	19.26	1600	0.07	119	-90.7		
1025	.25	2.37	200	11.67	6.17	19.09	1602	0.07	102	-90.9		
1030	.25	2.62	200	11.67	6.16	19.30	1600	0.06	98.5	-91.3		
1035	.25	2.87	200	11.71	6.17	19.23	1602	0.07	101.	-92.2		
1040	.25	3.12	200	11.76	6.16	19.05	1602	0.06	99.7	-91.8		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
DANIEL BEALL SIES	Daniel Beall	1040	1105

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Sulfate (IC300)	APP
2	2	CG	40 ml	HCL	MEE+Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
					TKP (365.4)	
1	1	PE	250m	NONE	Bromide	
1	1	PE	250m	HNO3	Total Sulfur (6010/200.7)	
1	1	PE	1 L	none	MBT -See list	
2	2	AG	40 ml	BAK	VFA (AM23 G)	

Remarks: HAD TO INSERT HOSE INTO WELL. TURBIDITY STABALIZED AROUND 100.

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** ± 0.1 units; **Specific Conductance:** ± 5%; **Turbidity:** < 10 NTU or stabile

D

Solutions-IES
Industrial & Environmental Services

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma | **Site Location:** Selma, NC

Well Number: IW-42B | **Sample ID:** IW-42B | **Date:** 7/22/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (ft btoc):	Purge pump type or bailer:	Well Screen Depth (ft bgs):
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.33	Peristaltic pump	23-30

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
5' off bottom	1320	1410	2.50	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1325	.25	.25	200	6.87	6.18	23.14	78	0.20	34.8	-27.7	CLEAR	NONE
1330	.25	.50	200	[illegible]	5.99	22.95	81	0.12	23.2	-19.9		
1335	.25	.75	200	6.15	5.91	22.63	87	0.08	15.7	-17.8		
1340	.25	1.00	200	6.19	5.93	22.80	102	0.10	13.6	-19.4		
1345	.25	1.25	200	6.20	5.82	22.57	192	0.12	8.31	-27.5		
1350	.25	1.50	200	6.33	5.69	22.37	217	0.07	8.91	-29.4		
1355	.25	1.75	200	6.34	5.67	22.15	203	0.04	7.55	-29.2		
1400	.25	2.00	200	6.33	5.78	22.61	205	0.04	6.41	-37.1		
1405	.25	2.25	200	6.35	5.84	22.35	208	0.04	7.02	-38.5		
1410	.25	2.50	200	6.34	5.80	22.28	208	0.03	7.27	-37.1		

6.03 DTW

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
DANIEL BEALL SIES	Daniel Beall	1410	1430

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
3	3	CG	40 ML	HCL	VOC (8260B)	RFPP
1	1	PE	250 ml	none	Sulfate (IC300)	APP
2	2	CG	40 ml	HCL	MEE+Acetylene (RSK 175)	
2	2	CG	40 ml	H2SO4	TOC (SM5310B)	
1	1	PE	500 ML	2 Acetate/NaOH	Sulfide (SM4500-SF)	
					TKN (351.2)	
					TKP (365.4)	
1	1	PE	250m	NONE	Bromide	
1	1	PE	250m	HNO3	Total Sulfur (6010/200.7)	
1	1	PE	1 L	none	MBT -See list	
2	2	AG	40 ml	BAK	VFA (AM23 G)	

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** ± 0.1 units; **Specific Conductance:** ± 5%; **Turbidity:** < 10 NTU or stabile

APPENDIX B

LABORATORY ANALYTICAL REPORTS

8/6/2015

JODY OVERMYER

SOLUTIONS-IES, INC.

1101 NOWELL ROAD

RALEIGH, NC 27607

Subject:

Report of Data - Project: EATON SELMA-2013.0014.EATN/4

WorkOrder: 1507060

Attn.: JODY OVERMYER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: SOLUTIONS-IES, INC. **Work:** 1507060

Project: EATON SELMA-2013.0014.EATN/4 **Sdg:** 1507060

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1507060-01	MW-1	Water	07/21/2015 12:35	07/22/2015 08:02
1507060-02	MW-2	Water	07/21/2015 15:15	07/22/2015 08:02
1507060-03	MW-3	Water	07/21/2015 14:40	07/22/2015 08:02
1507060-04	MW-8	Water	07/21/2015 12:55	07/22/2015 08:02
1507060-05	MW-18	Water	07/21/2015 15:50	07/22/2015 08:02
1507060-06	DUP-1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-07	TRIP BLANK1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-08	MW-5	Water	07/22/2015 08:15	07/23/2015 08:11
1507060-09	MW-14	Water	07/22/2015 09:25	07/23/2015 08:11
1507060-10	MW-4	Water	07/22/2015 10:55	07/23/2015 08:11
1507060-11	MW-19	Water	07/22/2015 12:15	07/23/2015 08:11
1507060-12	MW-11	Water	07/22/2015 13:20	07/23/2015 08:11
1507060-13	MW-9	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-14	MW-20	Water	07/22/2015 14:50	07/23/2015 08:11
1507060-15	MW-17	Water	07/22/2015 15:40	07/23/2015 08:11
1507060-16	MW-15	Water	07/22/2015 15:10	07/23/2015 08:11
1507060-17	MW-16	Water	07/22/2015 12:10	07/23/2015 08:11
1507060-18	IW-2A	Water	07/22/2015 10:40	07/23/2015 08:11
1507060-19	IW-42B	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-20	TRIP BLANK2	Water	07/22/2015 00:00	07/23/2015 08:11
1507060-21	MW-13	Water	07/23/2015 10:10	07/23/2015 16:30
1507060-22	MW-7	Water	07/23/2015 09:30	07/23/2015 16:30
1507060-23	IDW-1	Water	07/23/2015 10:00	07/23/2015 16:30
1507060-24	TB-3	Water	07/23/2015 00:00	07/23/2015 16:30

ANALYSES DATA PACKAGE COVER PAGE

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

Laboratory: Liberty Analytical

SDG: 1507060

Client Sample Id:	Analysis:	Lab Sample Id:
MW-1	EPA 6010C	1507060-01
MW-2	EPA 6010C	1507060-02
MW-3	EPA 6010C	1507060-03
MW-8	EPA 6010C	1507060-04
MW-18	EPA 6010C	1507060-05
MW-5	EPA 6010C	1507060-08
MW-14	EPA 6010C	1507060-09
MW-4	EPA 6010C	1507060-10
MW-19	EPA 6010C	1507060-11
MW-11	EPA 6010C	1507060-12
MW-9	EPA 6010C	1507060-13
MW-20	EPA 6010C	1507060-14
MW-17	EPA 6010C	1507060-15
MW-15	EPA 6010C	1507060-16
MW-16	EPA 6010C	1507060-17
MW-13	EPA 6010C	1507060-21

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions addressed in the narrative. Release of the data contained in this hardcopy data package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Susan W Bass

Name: Susan Bass

Date: 07/28/2015

Title: Chemist III

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

A. SDG Narrative

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1507060
Client: SOLUTIONS-IES, INC.
Project: EATON SELMA-2013.0014/4.EATN/4

The indicated Sample Delivery Group (SDG) consisting of eighteen (18) water samples was received into the laboratory information management system (LIMS) on July 22 and 23, 2015 intact and in good condition with the Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The samples temperature was 0.1, 0.2, 0.4, and 1.2 degrees Celsius. Temperature was recorded by IR temperature gun.

The samples were prepared and analyzed in accordance with SW846 6010C methodology for the requested metal magnesium.

EQUATIONS FOR LIQUID SAMPLE CALCULATIONS:

Equation for obtaining metals sample results in µg/L as presented on Analysis Data Sheet data sheets from ICP instrument acquired results in µg/L (ppb).

$$\frac{C \times F}{I}$$

Where

C = concentration (µg/L)

F = final volume in liters after sample preparation

I = initial volume in liters

Example: Magnesium for sample MW-2

$$\frac{20622.1\ \mu g/L\ (C) \times 0.05\ L\ (F)}{0.05\ L\ (I)} = 20622\ \mu g/L \text{ reported as } 20600\ \mu g/L$$

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (LLICV, LLCCV, ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 methodology.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW, LCSWD, & PBW) were found to be within acceptable ranges and the field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

No matrix spikes were requested for these samples.

A five-fold serial dilution of sample, CCN = SDI1507060-01 (MW-1L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentration was inside control limits.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Susan W Bass

Susan W. Bass
Senior Chemist
August 27, 2015

Liberty Analytical

Liberty Analytical's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is Liberty Analytical's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Revision 7 (01/12/2011)

Liberty Analytical

INORGANIC DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. The qualifiers used are:

U : This flag indicates the compound was analyzed for, not detected and is reported as less than the Method Detection Limit (MDL) (or as defined by the client). The Reporting Limit (RL), or Limit of Quantitation (LOQ), and the MDL will be adjusted to reflect any dilution or concentration of the sample and, for soils, the percent moisture.

J : This flag indicates the reported result is an estimated value. The flag is used when an analyte is detected and the result is less than the adjusted RL/LOQ but equal to or greater than the MDL.

Q : This flag denotes that one or more quality control criteria have failed (e.g., LCS recovery, Continuing Calibration Verification, CCV, and interference check standards for ICP-AES/ICP-MS) and reanalyses can't be performed. The Q flag is applied to all specific analyte(s) in all samples associated with the failed quality control criteria.

B : This flag is used when the analyte is found in the associated method or calibration blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

D: This flag is applied to an analyte when the reported result is based on a dilution.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

The extensions: D, S, SD, L, and A are added to the end of the Client ID and represent the following:

D – Matrix Duplicate
S – Matrix Spike
SD – Matrix Spike Duplicate
L – Serial Dilution
A – Post Digestion Spike

Revision 0 (11-09-2010)

Chain of Custody Records

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the Work Order/SDG.

CHAIN OF CUSTODY

CompuChem
A Division Of
Liberty Analytical Corp.
Environmental Testing Laboratories

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON . SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1507060-01	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-02	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-03	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	<2	<2	>9	<2	<2
-04	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-05	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-07	TRIP BLANK 1											X														

MW-18: received 1 Plastic liter labeled for MBT (Microbial Insights) contacted Sean - he said we can dispose of sample [illegible] 7/22/15

Lab Use Only

Sample Unpacked By: [illegible]
Sample Order Entry By: [illegible]
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

received 2-40ml VOA 8260B vials for 1507060-06 "DUP-1" collected 7/21/15 / not listed on COC [illegible] 7/22/15

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15 0802	Received by: [illegible]	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

pick-up @ client
direct delivery back to lab

TR GUN: SN0010

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Revised

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N 7/21/15
MW-18
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260B	NITRATE, SULFATE IC 300	Fe^{+2} SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH / Sample Info (Lab Use)
	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	TRIP BLANK 1											X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15	Received by:	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem
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CHAIN OF CUSTODY

2013.0014/4

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 1 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Total # of Bottles	Total # of Bottles	Total # of Bottles	Total # of Bottles
1507060-08	MW-5	7/22	815	GW	12							X	X	X	X	X	X	X	X	X		42	42	79	42
-09	MW-14		925		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-10	MW-4		1055		12							X	X	X	X	X	X	X	X	X		42	42	5	42
-11	MW-19		1215		12							X	X	X	X	X	X	X	X	X		42	42	5	42
-12	MW-11		1320		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-13	MW-9		1410		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-14	MW-20		1450		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-20	TRIP BLANK-2		—		2							X													
-15	MW-17		1540		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-16	MW-15		1510		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-17	MW-16		1210		12							X	X	X	X	X	X	X	X	X		42	42	79	42

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4
VOA cooler → 0.1°C

Sample Custody

Relinquished by:	Date/Time: 7/22/15	Received by:	Date/Time: 7-23-15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 1.2, 0.2, 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pick-up from client

IR GUN: SN0010

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CHAIN OF CUSTODY

2013.0014/4

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 2 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH Sample Info (Lab Use)
1507060-18	IW-2A	7/22	1040	GW	10							X	X			X	X		X	X	X	
1 -19	IW-42B	7/22	1410	GW	10							X	X			X	X		X	X	X	

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

Sample Custody

Relinquished by:	Date/Time: 7/23/15	Received by:	Date/Time: 8-33 15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

direct pick-up from client

White & Yellow copy to lab • Pink copy for customer

sample ID	pH
1507060-17 MW-16	8
-10 MW-4	5
-11 MW-19	5

CompuChem
a division of Liberty Analytical Corporation

QUALITY ASSURANCE NOTICE

CompuChem ID # _____
Client ID # MW-16, MW-4, MW-19
Case # _____
Type of Analysis sulfide
Receipt Date 7/23/15

The pH reading for the sample above was * see chart above; the required pH level is >9.

A CompuChem Project Manager contacted the client who instructed the laboratory to:

Preserve in-house ✓

Note: For samples preserved in house, certain clients require that the maximum amount of preservative added to a sample in an SDG also be added to the associated field or equipment blank. If neither blank is present, the appropriate laboratory must be notified so the proper amount of preservation can be added to the method blank.

Analyze - qualify with notice ✓

Dispose - client will resample _____

Subcontract lab to preserve _____

Project Manager [signature] Date 7/23/15

Preservation Type Zinc Acetate 6 N NaOH Preservative Lot Number 3L16031/4L10015

Preserved By [signature] Date 7/23/15

QAN-R-2
020529

QAN-R-2:052902:llc

CompuChem
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Liberty Analytical Corp.

2013.0014/4

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe^{+2} SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Sample Info
1507060-21	MW-13	7/23/15	1010	GW	12	X	X	X	X			X	X	X	X	X	X	X	X	X		
-22	MW-7		0930	GW	3	X						X										
-24	TB-3		—	DI	3	X						X										
-23	IDW-1		1000	GW	3	X						X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4
OK per Jody for 21 VOC + 3 TB in WO# 1507060
7/23/15

Sample Custody

Relinquished by:	Date/Time: 7/23/15 1630	Received by: CompuChem	Date/Time: 7/23/15 1630
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 4.9 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pickup from client IR GUN: SN0015

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Report To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone: (919) 873-1060
Fax: -

Invoice To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone :(919) 873-1060
Fax: -

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-01 MW-1 [Water] Sampled 07/21/2015 12:35 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:35	07/22/2015 08:02	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-02 MW-2 [Water] Sampled 07/21/2015 15:15 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:15	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-03 MW-3 [Water] Sampled 07/21/2015 14:40 Eastern					
6010C METALS	08/05/2015 16:00	13	01/17/2016 14:40	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
1507060-04 MW-8 [Water] Sampled 07/21/2015 12:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:55	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-05 MW-18 [Water] Sampled 07/21/2015 15:50 Eastern					**HIGH CONC. EXPECTED**
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:50	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-06 DUP-1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-07 TRIP BLANK1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-08 MW-5 [Water] Sampled 07/22/2015 08:15 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 08:15	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-09 MW-14 [Water] Sampled 07/22/2015 09:25 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
6010C METALS	08/05/2015 16:00	13	01/18/2016 09:25	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-10 MW-4 [Water] Sampled 07/22/2015 10:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 10:55	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-11 MW-19 [Water] Sampled 07/22/2015 12:15 Eastern					
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:15	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
1507060-12 MW-11 [Water] Sampled 07/22/2015 13:20 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 13:20	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-13 MW-9 [Water] Sampled 07/22/2015 14:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-14 MW-20 [Water] Sampled 07/22/2015 14:50 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:50	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-15 MW-17 [Water] Sampled 07/22/2015 15:40 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:40	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
1507060-16 MW-15 [Water] Sampled 07/22/2015 15:10 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:10	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-17 MW-16 [Water] Sampled 07/22/2015 12:10 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
1507060-18 IW-2A [Water] Sampled 07/22/2015 10:40 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
1507060-19 IW-42B [Water] Sampled 07/22/2015 14:10 Eastern					
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-20 TRIP BLANK2 [Water] Sampled 07/22/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 00:00	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-21 MW-13 [Water] Sampled 07/23/2015 10:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/16/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/30/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/19/2016 10:10	07/23/2015 16:30	
1507060-22 MW-7 [Water] Sampled 07/23/2015 09:30 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 09:30	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-23 IDW-1 [Water] Sampled 07/23/2015 10:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-24 TB-3 [Water] Sampled 07/23/2015 00:00 Eastern					**TRIP BLANK**
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 00:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Liberty Analytical **SDG:** 1507060

Client: SOLUTIONS-IES, INC. **Project:** EATON SELMA-2013.0014.EATN/4

Matrix: Water **Instrument:** P5

Analyte	MDL	RL	Units	Method
Magnesium	1,150	5000	ug/L	EPA 6010C

LCS / LCS DUPLICATE SUMMARY

EPA 6010C

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072404-BS1 Matrix: Water Client ID: MLCSBV Batch: 5072404

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Magnesium	6000	5500	91.6		80 - 120

LCS / LCS DUPLICATE SUMMARY

EPA 6010C

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072404-BSD1 Matrix: Water Client ID: MLCSDBV Batch: 5072404

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Magnesium	6000	5520	92.0	0.382	20		80 - 120

SERIAL DILUTION

EPA 6010C

MW-1L

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5G28001-SRD1 Matrix: Water Lab Source ID: 1507060-01 Source Sample: MW-1

Sequence: 5G28001 Dilution: 5 Report to MDL: YES

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	RL	% Difference	Q	Method	QC Limits % Difference
Magnesium	5,000.00 U	25000.00 U	5000			EPA 6010C	10

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PREPARATION BATCH SUMMARY

EPA 6010C

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072404 Matrix: Water Preparation: EPA 3010A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/24/15 13:47	50.0	50.0
MW-2	1507060-02	07/24/15 13:47	50.0	50.0
MW-3	1507060-03	07/24/15 13:47	50.0	50.0
MW-8	1507060-04	07/24/15 13:47	50.0	50.0
MW-18	1507060-05	07/24/15 13:47	50.0	50.0
MW-5	1507060-08	07/24/15 13:47	50.0	50.0
MW-14	1507060-09	07/24/15 13:47	50.0	50.0
MW-4	1507060-10	07/24/15 13:47	50.0	50.0
MW-19	1507060-11	07/24/15 13:47	50.0	50.0
MW-11	1507060-12	07/24/15 13:47	50.0	50.0
MW-9	1507060-13	07/24/15 13:47	50.0	50.0
MW-20	1507060-14	07/24/15 13:47	50.0	50.0
MW-17	1507060-15	07/24/15 13:47	50.0	50.0
MW-15	1507060-16	07/24/15 13:47	50.0	50.0
MW-16	1507060-17	07/24/15 13:47	50.0	50.0
MW-13	1507060-21	07/24/15 13:47	50.0	50.0
PBWBV	5072404-BLK1	07/24/15 13:47	50.0	50.0
MLCSBV	5072404-BS1	07/24/15 13:47	50.0	50.0
MLCSDBV	5072404-BSD1	07/24/15 13:47	50.0	50.0

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ANALYSIS DATA SHEET

MW-1

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-01 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium		1150	5000		1	U	EPA 6010C	5G28001	7/26/15 18:53

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-02 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	20600	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:00

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-3

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-03 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	33700	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:03

NC2L - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

MW-8

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-04 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	13700	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:06

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-18

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-05 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	62500	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:10

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-5

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-08 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	39700	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:13

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-14

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-09 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium		1150	5000		1	U	EPA 6010C	5G28001	7/26/15 19:24

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-4

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-10 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	75600	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:27

NC2L - 15A NCAC 02L .0202

ANALYSIS DATA SHEET

MW-19

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-11 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	97100	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:31

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-11

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-12 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	1280	1150	5000		1	J	EPA 6010C	5G28001	7/26/15 19:34

NC2L - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

MW-9

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-13 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium		1150	5000		1	U	EPA 6010C	5G28001	7/26/15 19:38

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-20

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-14 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	20700	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:41

NC2L - 15A NCAC 02L .0202

ANALYSIS DATA SHEET

MW-17

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-15 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	16600	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:45

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-15

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-16 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	2100	1150	5000		1	J	EPA 6010C	5G28001	7/26/15 19:48

NC2L - 15A NCAC 02L .0202

ANALYSIS DATA SHEET

MW-16

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-17 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium	28300	1150	5000		1		EPA 6010C	5G28001	7/26/15 19:52

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-13

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-21 % Solid: Matrix: Water Sampled: 07/23/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
7439-95-4	Magnesium		1150	5000		1	U	EPA 6010C	5G28001	7/26/15 20:06

NC2L - 15A NCAC 02L .0202

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BLANKS

EPA 6010C

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G28001 Instrument ID: P5

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G28001-ICB1	Magnesium	0.285	1150	5000	ug/L	*U*	EPA 6010C
CCB1	5G28001-CCB1	Magnesium	1.30	1150	5000	ug/L	*U*	EPA 6010C
PBWBV	5072404-BLK1	Magnesium		1150	5000	ug/L	*U*	EPA 6010C
CCB1	5G28001-CCB2	Magnesium	1.10	1150	5000	ug/L	*U*	EPA 6010C
CCB1	5G28001-CCB3	Magnesium	1.44	1150	5000	ug/L	*U*	EPA 6010C
CCB1	5G28001-CCB4	Magnesium	2.41	1150	5000	ug/L	*U*	EPA 6010C

8/6/2015

JODY OVERMYER

SOLUTIONS-IES, INC.

1101 NOWELL ROAD

RALEIGH, NC 27607

Subject:

Report of Data - Project: EATON SELMA-2013.0014.EATN/4

WorkOrder: 1507060

Attn.: JODY OVERMYER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: SOLUTIONS-IES, INC. **Work:** 1507060

Project: EATON SELMA-2013.0014.EATN/4 **Sdg:** 1507060

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1507060-01	MW-1	Water	07/21/2015 12:35	07/22/2015 08:02
1507060-02	MW-2	Water	07/21/2015 15:15	07/22/2015 08:02
1507060-03	MW-3	Water	07/21/2015 14:40	07/22/2015 08:02
1507060-04	MW-8	Water	07/21/2015 12:55	07/22/2015 08:02
1507060-05	MW-18	Water	07/21/2015 15:50	07/22/2015 08:02
1507060-06	DUP-1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-07	TRIP BLANK1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-08	MW-5	Water	07/22/2015 08:15	07/23/2015 08:11
1507060-09	MW-14	Water	07/22/2015 09:25	07/23/2015 08:11
1507060-10	MW-4	Water	07/22/2015 10:55	07/23/2015 08:11
1507060-11	MW-19	Water	07/22/2015 12:15	07/23/2015 08:11
1507060-12	MW-11	Water	07/22/2015 13:20	07/23/2015 08:11
1507060-13	MW-9	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-14	MW-20	Water	07/22/2015 14:50	07/23/2015 08:11
1507060-15	MW-17	Water	07/22/2015 15:40	07/23/2015 08:11
1507060-16	MW-15	Water	07/22/2015 15:10	07/23/2015 08:11
1507060-17	MW-16	Water	07/22/2015 12:10	07/23/2015 08:11
1507060-18	IW-2A	Water	07/22/2015 10:40	07/23/2015 08:11
1507060-19	IW-42B	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-20	TRIP BLANK2	Water	07/22/2015 00:00	07/23/2015 08:11
1507060-21	MW-13	Water	07/23/2015 10:10	07/23/2015 16:30
1507060-22	MW-7	Water	07/23/2015 09:30	07/23/2015 16:30
1507060-23	IDW-1	Water	07/23/2015 10:00	07/23/2015 16:30
1507060-24	TB-3	Water	07/23/2015 00:00	07/23/2015 16:30

ANALYSES DATA PACKAGE COVER PAGE

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

Laboratory: Liberty Analytical

SDG: 1507060

Client Sample Id:	Analysis:	Lab Sample Id:
MW-1	RSK 175	1507060-01
MW-2	RSK 175	1507060-02
MW-2	RSK 175	1507060-02RE1
MW-3	RSK 175	1507060-03
MW-3	RSK 175	1507060-03RE1
MW-8	RSK 175	1507060-04
MW-8	RSK 175	1507060-04RE1
MW-18	RSK 175	1507060-05
MW-5	RSK 175	1507060-08
MW-14	RSK 175	1507060-09
MW-4	RSK 175	1507060-10
MW-4	RSK 175	1507060-10RE1
MW-19	RSK 175	1507060-11
MW-19	RSK 175	1507060-11RE1
MW-11	RSK 175	1507060-12
MW-9	RSK 175	1507060-13
MW-20	RSK 175	1507060-14
MW-20	RSK 175	1507060-14RE1
MW-17	RSK 175	1507060-15
MW-17	RSK 175	1507060-15RE1
MW-15	RSK 175	1507060-16
MW-16	RSK 175	1507060-17
MW-16	RSK 175	1507060-17RE1
IW-2A	RSK 175	1507060-18
IW-2A	RSK 175	1507060-18RE1
IW-42B	RSK 175	1507060-19
IW-42B	RSK 175	1507060-19RE1
MW-13	RSK 175	1507060-21

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501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions addressed in the narrative. Release of the data contained in this hardcopy data package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Quentisha Forrester

Name: Quentisha Forrester

Date: 07/28/2015

Title: Chemist III

Liberty Analytical

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1507060
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS:			**MW-1**	**MW-2**	**MW-3**	**MW-8**
MW-18	**MW-5**	**MW-14**	**MW-4**	**MW-19**	**MW-11**	**MW-9**
MW-20	**MW-17**	**MW-15**	**MW-16**	**IW-2A**	**IW-42B**	**MW-13**

The 18 water samples listed above were received intact, refrigerated between 0.1°C and 4.9°C, with proper documentation, in sealed shipping containers, on July 22 and 23, 2015. The samples were scheduled for the requested analysis by Method RSK-175 for Methane, Ethane, Ethene and Acetylene. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices are included in the sample data sections.

RSK

The samples were prepped and analyzed within the holding time requirements.

Methane was present above the reporting limits in some of these samples, and Ethane was present above the reporting limits in sample MW-14. After the initial analysis of samples MW-2, MW-3, MW-8, MW-4, MW-19, MW-17, MW-16, IW-2A and IW-42B dilutions were required for Methane. Samples MW-2, MW-3, MW-8, MW-4, MW-19, MW-17, MW-16, IW-2A and IW-42B were diluted and reanalyzed. We have reported both analyses of samples MW-2, MW-3, MW-8, MW-4, MW-19, MW-17, MW-16, IW-2A and IW-42B.

Manual integrations were performed on one or more files in this SDG.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The method blank associated with the samples met all quality control criteria.

Duplicate matrix spikes were not requested with this SDG. The Laboratory Control Samples (LCS/LCSD) that were prepared and analyzed with the samples met all quality control criteria with the following exception. The %RPD was outside of QC limits for Acetylene in the analysis of PLCSKO/PLCSDKO.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Quentisha Forrester
Chemist III
July 28, 2015

	GC and GC/MS Column and Trap Specifications Table								
				COLUMNS					
Columns Utilized	Brand Name		Coating Material		ID (mm)	Film Thickness (um)			Length (m)
	GC Laboratory								
DRO/ORO	Restek		RTX-5		0.53	1.0			30
	Restek		RTX-SMS		0.53	1.0			30
√	Restek		clpest		0.32	0.5			30
√	Restek		clpest2		0.32	0.42			30
	J&W		DB-210		0.53	1.0			30
RSK	J&W		GS-GASPRO		0.32	N/A			30
	GC Volatiles Laboratory								
GRO	Restek		RTX-Volatiles		0.53	2.0			30
	GC/MS Volatiles Laboratory								
	Restek		RTX-VMS		0.18	1.0			20
√	Supelco		SPB-624		0.32	1.8			60
	Supelco		SPB-624		0.53	3.0			75
	Phenomonex		ZB-624		0.32	1.8			60
	GC/MS Semivolatiles Laboratory								
√	Restek		RTX-5Sil MS		0.32	0.25			30
	HPLC Laboratory								
PAH	Supelco		Supelcosil LC-PAH		4.6	5.0			15 cm
PAH	Supelco		Discovery RP Amide C16		4.6	5.0			25 cm
EXP	Restek		Pinnacle Cyano		4.6	5.0			25 cm
EXP	Restek		Allure C18		4.6	5.0			25 cm
				TRAPS					
	GC and GC/MS Volatiles Laboratory								
	Supelco J (BETXTRAP™)			* 7.7 cm Carbopack C					
				* 1.2 cm Carbopack B					
√	Supelco K (Vocarb3000)			* 10 cm of Carbopack B (Graphitized Carbons)					
				* 6 cm of Carboxen 1000 (Carbon molecular sieves)					
				* 1 cm of Carboxen 1001 (Carbon molecular sieves)					
									Rev. 30

This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semivolatiles, pesticides, and Aroclors by the requested analytical methods. Please see the SDG Narrative(s) for the specific fraction(s) relative to this SDG.
Note: This table also contains HPLC columns.

Liberty Analytical

Liberty Analytical's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is Liberty Analytical's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Revision 7 (01/12/2011)

Liberty Analytical

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC/HPLC chemists. An Extracted Ion Current Profile (EICP) or a GC/HPLC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC/HPLC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak. The most common reasons for performing manual integrations/editing are: the compound was not found by the automatic integration routine, the compound was incorrectly integrated by the automatic integration routine, and the co-eluting compounds were incorrectly integrated by the automatic integration routine.

H - Denotes that the data reviewer, GC/MS operator, or GC/HPLC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate GC/MS library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

These codes will appear in the GC/MS and GC/HPLC raw data.

Revision 8 (01/29/2011)

Liberty Analytical

Liberty Analytical's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is Liberty Analytical's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Revision 7 (01/12/2011)

Liberty Analytical

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC/HPLC chemists. An Extracted Ion Current Profile (EICP) or a GC/HPLC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC/HPLC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak. The most common reasons for performing manual integrations/editing are: the compound was not found by the automatic integration routine, the compound was incorrectly integrated by the automatic integration routine, and the co-eluting compounds were incorrectly integrated by the automatic integration routine.

H - Denotes that the data reviewer, GC/MS operator, or GC/HPLC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate GC/MS library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

These codes will appear in the GC/MS and GC/HPLC raw data.

Revision 8 (01/29/2011)

Liberty Analytical

DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on the appropriate reporting form for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85%), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P on the reporting form. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on the appropriate reporting form for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the appropriate reporting form for the more diluted sample, and **all** reported concentrations on that form are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate reporting forms are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single reporting form.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an “S” flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor. The “S” flag is not utilized for non CLP analyses.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

Revision 13 (01-12-2011)

Chain of Custody Records

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the Work Order/SDG.

CHAIN OF CUSTODY

CompuChem
A Division Of
Liberty Analytical Corp.
Environmental Testing Laboratories
501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON . SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type): VOCS 8260 B; NITRATE, SULFATE IC 300; Fe+2 SM 3500-Fe B; mg TOTAL 6010; METHANE, ETHANE, ETHENE ACETYLENE RSK 175; TOC SM 5310 B; ALKALINITY 310.2; SULFIDE SM 4500-S F; TKN 351.2; TKP 365.4

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	MBS	TCS	VOCS	TKP	
1507060-01	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-02	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-03	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	<2	<2	>9	<2	<2
-04	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-05	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-07	TRIP BLANK 1											X														

MW-18: received 1 Plastic liter labeled for MBT (Microbial Insights) contacted Sean - he said we can dispose of sample [illegible] 7/22/15

Lab Use Only

Sample Unpacked By: [illegible]
Sample Order Entry By: [illegible]
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4
received 2-40ml VOA 8260B vials for 1507060-06 "DUP-1" collected 7/21/15 not listed on COC [illegible] 7/22/15

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15 0802	Received by: [illegible]	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

pick-up @ client
direct delivery back to lab

TR GUN: SN0010

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Revised

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Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N MW-18 7/21/15
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260B	NITRATE, SULFATE IC 300	Fe^{+2} SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH / Sample Info (Lab Use)
	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	TRIP BLANK 1											X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15	Received by:	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CHAIN OF CUSTODY

CompuChem
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Environmental Testing Laboratories

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

2013.0014/4

Page 1 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Total # of Bottles	Total # of Bottles	Total # of Bottles	Total # of Bottles
1507060-08	MW-5	7/22	815	GW	12							X	X	X	X	X	X	X	X	X		42	42	79	42
-09	MW-14		925		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-10	MW-4		1055		12							X	X	X	X	X	X	X	X	X		42	42	5	42
-11	MW-19		1215		12							X	X	X	X	X	X	X	X	X		42	42	5	42
-12	MW-11		1320		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-13	MW-9		1410		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-14	MW-20		1450		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-20	TRIP BLANK-2		—		2							X													
-15	MW-17		1540		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-16	MW-15		1510		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-17	MW-16		1210		12							X	X	X	X	X	X	X	X	X		42	42	79	42

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

VOA cooler → 0.1°C

Sample Custody

Relinquished by:	Date/Time: 7/22/15	Received by:	Date/Time: 7-23-15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 1.2, 0.2, 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pick-up from client

IR GUN: SN0010

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CHAIN OF CUSTODY

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Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

2013.0014/4

Page 2 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH Sample Info (Lab Use)
1507060-18	IW-2A	7/22	1040	GW	10							X	X			X	X		X	X	X	
1 -19	IW-42B	7/22	1410	GW	10							X	X			X	X		X	X	X	

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

Sample Custody

Relinquished by:	Date/Time: 7/23/15	Received by:	Date/Time: 8-33-15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

direct pick-up from client

White & Yellow copy to lab • Pink copy for customer

sample ID	pH
1507060-17 MW-16	8
-10 MW-4	5
-11 MW-19	5

CompuChem
a division of Liberty Analytical Corporation

QUALITY ASSURANCE NOTICE

CompuChem ID # _____
Client ID # MW-16, MW-4, MW-19
Case # _____
Type of Analysis sulfide
Receipt Date 7/23/15

The pH reading for the sample above was * see chart above; the required pH level is >9.

A CompuChem Project Manager contacted the client who instructed the laboratory to:

Preserve in-house ✓

Note: For samples preserved in house, certain clients require that the maximum amount of preservative added to a sample in an SDG also be added to the associated field or equipment blank. If neither blank is present, the appropriate laboratory must be notified so the proper amount of preservation can be added to the method blank.

Analyze - qualify with notice ✓

Dispose - client will resample _____

Subcontract lab to preserve _____

Project Manager [signature] Date 7/23/15

Preservation Type Zinc Acetate 6 N NaOH Preservative Lot Number 3L16031/4L10015

Preserved By [signature] Date 7/23/15

QAN-R-2
020529

QAN-R-2:052902:llc

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2013.0014/4

CHAIN OF CUSTODY

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Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe^{+2} SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Sample Info
1507060-21	MW-13	7/23/15	1010	GW	12	X	X	X	X			X	X	X	X	X	X	X	X	X		
-22	MW-7		0930	GW	3	X						X										
-24	TB-3		—	DI	3	X						X										
-23	IDW-1		1000	GW	3	X						X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

OK per Jody for 21 VOC + 3 TB in WO# 1507060 7/23/15

Sample Custody

Relinquished by:	Date/Time: 7/23/15 1630	Received by: CompuChem	Date/Time: 7/23/15 1630
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 4.9 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pickup from client IR GUN: SN0015

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Report To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone: (919) 873-1060
Fax: -

Invoice To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone :(919) 873-1060
Fax: -

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-01 MW-1 [Water] Sampled 07/21/2015 12:35 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:35	07/22/2015 08:02	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-02 MW-2 [Water] Sampled 07/21/2015 15:15 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:15	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-03 MW-3 [Water] Sampled 07/21/2015 14:40 Eastern					
6010C METALS	08/05/2015 16:00	13	01/17/2016 14:40	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
1507060-04 MW-8 [Water] Sampled 07/21/2015 12:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:55	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-05 MW-18 [Water] Sampled 07/21/2015 15:50 Eastern					**HIGH CONC. EXPECTED**
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:50	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-06 DUP-1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-07 TRIP BLANK1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-08 MW-5 [Water] Sampled 07/22/2015 08:15 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 08:15	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-09 MW-14 [Water] Sampled 07/22/2015 09:25 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
6010C METALS	08/05/2015 16:00	13	01/18/2016 09:25	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-10 MW-4 [Water] Sampled 07/22/2015 10:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 10:55	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-11 MW-19 [Water] Sampled 07/22/2015 12:15 Eastern					
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:15	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
1507060-12 MW-11 [Water] Sampled 07/22/2015 13:20 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 13:20	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-13 MW-9 [Water] Sampled 07/22/2015 14:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-14 MW-20 [Water] Sampled 07/22/2015 14:50 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:50	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-15 MW-17 [Water] Sampled 07/22/2015 15:40 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:40	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
1507060-16 MW-15 [Water] Sampled 07/22/2015 15:10 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:10	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-17 MW-16 [Water] Sampled 07/22/2015 12:10 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
1507060-18 IW-2A [Water] Sampled 07/22/2015 10:40 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
1507060-19 IW-42B [Water] Sampled 07/22/2015 14:10 Eastern					
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-20 TRIP BLANK2 [Water] Sampled 07/22/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 00:00	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-21 MW-13 [Water] Sampled 07/23/2015 10:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/16/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/30/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/19/2016 10:10	07/23/2015 16:30	
1507060-22 MW-7 [Water] Sampled 07/23/2015 09:30 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 09:30	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-23 IDW-1 [Water] Sampled 07/23/2015 10:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-24 TB-3 [Water] Sampled 07/23/2015 00:00 Eastern					**TRIP BLANK**
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 00:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)

LCS / LCS DUPLICATE SUMMARY

RSK 175

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072701-BS1 Matrix: Water Client ID: PLCSKO Batch: 5072701

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Acetylene	9.323	7.42	80		50 - 150
Ethane	10.74	11.6	108		61 - 134
Ethene	10.02	10.7	106		58 - 129
Methane	5.730	5.78	101		58 - 120

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

RSK 175

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072701-BSD1 Matrix: Water Client ID: PLCSDKO Batch: 5072701

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Acetylene	9.323	5.69	61	26 *	20		50 - 150
Ethane	10.74	11.3	105	2	20		61 - 134
Ethene	10.02	10.2	102	4	20		58 - 129
Methane	5.730	5.70	99	1	20		58 - 120

PREPARATION BATCH SUMMARY

RSK 175

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072701 Matrix: Water Preparation: GC-RSK

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/27/15 09:19	1.00	1.00
MW-2	1507060-02	07/27/15 09:19	1.00	1.00
MW-2DL	1507060-02RE1	07/27/15 09:19	1.00	1.00
MW-3	1507060-03	07/27/15 09:19	1.00	1.00
MW-3DL	1507060-03RE1	07/27/15 09:19	1.00	1.00
MW-8	1507060-04	07/27/15 09:19	1.00	1.00
MW-8DL	1507060-04RE1	07/27/15 09:19	1.00	1.00
MW-18	1507060-05	07/27/15 09:19	1.00	1.00
MW-5	1507060-08	07/27/15 09:19	1.00	1.00
MW-14	1507060-09	07/27/15 09:19	1.00	1.00
MW-4	1507060-10	07/27/15 09:19	1.00	1.00
MW-4DL	1507060-10RE1	07/27/15 09:19	1.00	1.00
MW-19	1507060-11	07/27/15 09:19	1.00	1.00
MW-19DL	1507060-11RE1	07/27/15 09:19	1.00	1.00
MW-11	1507060-12	07/27/15 09:19	1.00	1.00
MW-9	1507060-13	07/27/15 09:19	1.00	1.00
MW-20	1507060-14	07/27/15 09:19	1.00	1.00
MW-20DL	1507060-14RE1	07/27/15 09:19	1.00	1.00
MW-17	1507060-15	07/27/15 09:19	1.00	1.00
MW-17DL	1507060-15RE1	07/27/15 09:19	1.00	1.00
MW-15	1507060-16	07/27/15 09:19	1.00	1.00
MW-16	1507060-17	07/27/15 09:19	1.00	1.00
MW-16DL	1507060-17RE1	07/27/15 09:19	1.00	1.00
IW-2A	1507060-18	07/27/15 09:19	1.00	1.00
IW-2ADL	1507060-18RE1	07/27/15 09:19	1.00	1.00
IW-42B	1507060-19	07/27/15 09:19	1.00	1.00
IW-42BDL	1507060-19RE1	07/27/15 09:19	1.00	1.00
MW-13	1507060-21	07/27/15 09:19	1.00	1.00
PBLKKO	5072701-BLK1	07/27/15 09:19	1.00	1.00
PLCSKO	5072701-BS1	07/27/15 09:19	1.00	1.00
PLCSDKO	5072701-BSD1	07/27/15 09:19	1.00	1.00

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

IW-2A

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	592x1507060-18.d	Sampled:	07/22/15 10:40
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-18	Received:	07/23/15 08:11
Dilution:	1	pH:	Florisil Cleanup:	N		Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 12:17
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene	0.66	0.15	1.0		*J*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

ANALYSIS DATA SHEET

RSK 175

IW-2ADL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	603x1507060-18.d	Sampled:	07/22/15 10:40
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-18RE1	Received:	07/23/15 08:11
Dilution:	50	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 14:45
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	1500	2.4	29		*D*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

ANALYSIS DATA SHEET

RSK 175

IW-42B

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	593x1507060-19.d	Sampled:	07/22/15 14:10
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-19	Received:	07/23/15 08:11
Dilution:	1	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 12:24
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene	0.93	0.15	1.0		*J*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

ANALYSIS DATA SHEET

RSK 175

IW-42BDL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	604x1507060-19.d	Sampled:	07/22/15 14:10
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-19RE1	Received:	07/23/15 08:11
Dilution:	50	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 14:52
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	1100	2.4	29		*D*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

MW-1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 577x1507060-01.d Sampled: 07/21/15 12:35

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-01 Received: 07/22/15 08:02

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 10:23

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*
74-82-8	Methane	0.36	0.048	0.58		*J*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-11

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 586x1507060-12.d Sampled: 07/22/15 13:20

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-12 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 11:30

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*
74-82-8	Methane	1.5	0.048	0.58		

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-13

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 594x1507060-21.d Sampled: 07/23/15 10:10

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-21 Received: 07/23/15 16:30

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 12:32

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*
74-82-8	Methane	8.8	0.048	0.58		

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-14

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 583x1507060-09.d Sampled: 07/22/15 09:25

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-09 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 11:07

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene	1.2	0.15	1.0		
74-82-8	Methane	2.2	0.048	0.58		

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-15

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 590x1507060-16.d Sampled: 07/22/15 15:10

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-16 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 12:01

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*
74-82-8	Methane	4.6	0.048	0.58		

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-16

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 591x1507060-17.d Sampled: 07/22/15 12:10

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-17 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 12:09

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-16DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	602x1507060-17.d	Sampled:	07/22/15 12:10
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-17RE1	Received:	07/23/15 08:11
Dilution:	50	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 14:37
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	1600	2.4	29		*D*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-17

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	589x1507060-15.d	Sampled:	07/22/15 15:40
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-15	Received:	07/23/15 08:11
Dilution:	1	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 11:54
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene	0.72	0.15	1.0		*J*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-17DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	601x1507060-15.d	Sampled:	07/22/15 15:40
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-15RE1	Received:	07/23/15 08:11
Dilution:	5	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 14:29
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	160	0.24	2.9		*D*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-18

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	581x1507060-05.d	Sampled:	07/21/15 15:50
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-05	Received:	07/22/15 08:02
Dilution:	1	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 10:52
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*
74-82-8	Methane	14	0.048	0.58		

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-19

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 585x1507060-11.d Sampled: 07/22/15 12:15

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-11 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 11:23

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-19DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	599x1507060-11.d	Sampled:	07/22/15 12:15
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-11RE1	Received:	07/23/15 08:11
Dilution:	5	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 14:14
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	110	0.24	2.9		*D*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

MW-2

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 578x1507060-02.d Sampled: 07/21/15 15:15

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-02 Received: 07/22/15 08:02

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 10:29

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

MW-20

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 588x1507060-14.d Sampled: 07/22/15 14:50

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-14 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 11:46

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-20DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	600x1507060-14.d	Sampled:	07/22/15 14:50
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-14RE1	Received:	07/23/15 08:11
Dilution:	20	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 14:22
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	450	0.96	12		*D*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

MW-2DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	595x1507060-02.d	Sampled:	07/21/15 15:15
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-02RE1	Received:	07/22/15 08:02
Dilution:	50	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 13:45
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	660	2.4	29		*D*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

MW-3

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 579x1507060-03.d Sampled: 07/21/15 14:40

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-03 Received: 07/22/15 08:02

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 10:36

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-3DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	596x1507060-03.d	Sampled:	07/21/15 14:40
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-03RE1	Received:	07/22/15 08:02
Dilution:	5	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 13:51
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	100	0.24	2.9		*D*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-4

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 584x1507060-10.d Sampled: 07/22/15 10:55

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-10 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 11:15

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-4DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	598x1507060-10.d	Sampled:	07/22/15 10:55
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-10RE1	Received:	07/23/15 08:11
Dilution:	2	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 14:06
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	56	0.096	1.2		*D*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-5

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 582x1507060-08.d Sampled: 07/22/15 08:15

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-08 Received: 07/23/15 08:11

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 10:59

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*
74-82-8	Methane	2.3	0.048	0.58		

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

RSK 175

MW-8

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 580x1507060-04.d Sampled: 07/21/15 12:55

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1507060-04 Received: 07/22/15 08:02

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 10:44

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

MW-8DL

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	597x1507060-04.d	Sampled:	07/21/15 12:55
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-04RE1	Received:	07/22/15 08:02
Dilution:	50	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 13:58
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-82-8	Methane	880	2.4	29		*D*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

MW-9

Client:	SOLUTIONS-IES, INC.	SDG	1507060	Project:	EATON SELMA-2013.0014.EATN/4		
Matrix:	Water	Extraction:	GC-RSK	File ID:	587x1507060-13.d	Sampled:	07/22/15 14:10
Initial/Final:	1mL / 1mL	Sulfur Cleanup:	N	Lab ID:	1507060-13	Received:	07/23/15 08:11
Dilution:	1	pH:		Florisil Cleanup:	N	Prepared:	07/27/15 09:19
% Moisture:	NA	GPC Cleanup:	N	GPC Cleanup Factor:	N	Analyzed:	07/27/15 11:38
Batch:	5072701	Sequence:	5G27001	Calibration:	4081204	Instrument:	varian67

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
74-86-2	Acetylene		1.0	1.0		*U*
74-84-0	Ethane		0.14	1.1		*U*
74-85-1	Ethene		0.15	1.0		*U*
74-82-8	Methane	0.53	0.048	0.58		*J*

DL2 - 15A NCAC 02L .0202

Liberty Analytical

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ANALYSIS DATA SHEET

RSK 175

PBLKKO

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 574x5072701-BLK1.d QC Type: Blank

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 5072701-BLK1 Column ID: GS-GASPRO

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 09:35

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
74-86-2	Acetylene		1.0	1.0	U
74-84-0	Ethane		0.14	1.1	U
74-85-1	Ethene		0.15	1.0	U
74-82-8	Methane		0.048	0.58	U

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ANALYSIS DATA SHEET

RSK 175

PLCSKO

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 575x5072701-BS1.d QC Type: LCS

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 5072701-BS1 Column ID: GS-GASPRO

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 09:41

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
74-86-2	Acetylene	7.42	1.0	1.0	
74-84-0	Ethane	11.6	0.14	1.1	
74-85-1	Ethene	10.7	0.15	1.0	
74-82-8	Methane	5.78	0.048	0.58	

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ANALYSIS DATA SHEET

RSK 175

PLCSDKO

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: GC-RSK File ID: 576x5072701-BSD1.d QC Type: LCS Dup

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 5072701-BSD1 Column ID: GS-GASPRO

Dilution: 1 pH: Florisil Cleanup: N Prepared: 07/27/15 09:19

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 07/27/15 09:49

Batch: 5072701 Sequence: 5G27001 Calibration: 4081204 Instrument: varian67

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
74-86-2	Acetylene	5.69	1.0	1.0	
74-84-0	Ethane	11.3	0.14	1.1	
74-85-1	Ethene	10.2	0.15	1.0	
74-82-8	Methane	5.70	0.048	0.58	

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8/6/2015

JODY OVERMYER

SOLUTIONS-IES, INC.

1101 NOWELL ROAD

RALEIGH, NC 27607

Subject:

Report of Data - Project: EATON SELMA-2013.0014.EATN/4

WorkOrder: 1507060

Attn.: JODY OVERMYER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: SOLUTIONS-IES, INC. **Work:** 1507060

Project: EATON SELMA-2013.0014.EATN/4 **Sdg:** 1507060

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1507060-01	MW-1	Water	07/21/2015 12:35	07/22/2015 08:02
1507060-02	MW-2	Water	07/21/2015 15:15	07/22/2015 08:02
1507060-03	MW-3	Water	07/21/2015 14:40	07/22/2015 08:02
1507060-04	MW-8	Water	07/21/2015 12:55	07/22/2015 08:02
1507060-05	MW-18	Water	07/21/2015 15:50	07/22/2015 08:02
1507060-06	DUP-1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-07	TRIP BLANK1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-08	MW-5	Water	07/22/2015 08:15	07/23/2015 08:11
1507060-09	MW-14	Water	07/22/2015 09:25	07/23/2015 08:11
1507060-10	MW-4	Water	07/22/2015 10:55	07/23/2015 08:11
1507060-11	MW-19	Water	07/22/2015 12:15	07/23/2015 08:11
1507060-12	MW-11	Water	07/22/2015 13:20	07/23/2015 08:11
1507060-13	MW-9	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-14	MW-20	Water	07/22/2015 14:50	07/23/2015 08:11
1507060-15	MW-17	Water	07/22/2015 15:40	07/23/2015 08:11
1507060-16	MW-15	Water	07/22/2015 15:10	07/23/2015 08:11
1507060-17	MW-16	Water	07/22/2015 12:10	07/23/2015 08:11
1507060-18	IW-2A	Water	07/22/2015 10:40	07/23/2015 08:11
1507060-19	IW-42B	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-20	TRIP BLANK2	Water	07/22/2015 00:00	07/23/2015 08:11
1507060-21	MW-13	Water	07/23/2015 10:10	07/23/2015 16:30
1507060-22	MW-7	Water	07/23/2015 09:30	07/23/2015 16:30
1507060-23	IDW-1	Water	07/23/2015 10:00	07/23/2015 16:30
1507060-24	TB-3	Water	07/23/2015 00:00	07/23/2015 16:30

ANALYSES DATA PACKAGE COVER PAGE

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

Laboratory: Liberty Analytical

SDG: 1507060

Client Sample Id:	Analysis:	Lab Sample Id:
MW-1	SW 8260B	1507060-01
MW-2	SW 8260B	1507060-02
MW-2	SW 8260B	1507060-02RE1
MW-3	SW 8260B	1507060-03
MW-8	SW 8260B	1507060-04
MW-18	SW 8260B	1507060-05
DUP-1	SW 8260B	1507060-06
TRIP BLANK1	SW 8260B	1507060-07
MW-5	SW 8260B	1507060-08
MW-14	SW 8260B	1507060-09
MW-4	SW 8260B	1507060-10
MW-4	SW 8260B	1507060-10RE1
MW-19	SW 8260B	1507060-11
MW-11	SW 8260B	1507060-12
MW-9	SW 8260B	1507060-13
MW-20	SW 8260B	1507060-14
MW-17	SW 8260B	1507060-15
MW-15	SW 8260B	1507060-16
MW-16	SW 8260B	1507060-17
IW-2A	SW 8260B	1507060-18
IW-42B	SW 8260B	1507060-19
TRIP BLANK2	SW 8260B	1507060-20
MW-13	SW 8260B	1507060-21
MW-7	SW 8260B	1507060-22
IDW-1	SW 8260B	1507060-23
TB-3	SW 8260B	1507060-24

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions addressed in the narrative. Release of the data contained in this hardcopy data package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Quentisha Forrester

Name: Quentisha Forrester

Date: 07/31/2015

Title: Chemist III

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1507060
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS:			**MW-1**	**MW-2**	**MW-3**	**MW-8**	**MW-18**
DUP-1	**TRIP BLANK1**		**MW-5**	**MW-14**	**MW-4**	**MW-19**	**MW-11**
MW-9	**MW-20**	**MW-17**	**MW-15**	**MW-16**	**IW-2A**	**IW-42B**	
TRIP BLANK2		**MW-13**	**MW-7**	**IDW-1**	**TB-3**		

The 24 aqueous samples listed above were received intact, refrigerated at 0.1°C, 0.4°C and 4.9°C, with proper documentation, in sealed shipping containers, July 22 and 23, 2015. The samples listed above were scheduled for the requested analysis of the volatile fraction. SW-846, 3rd Edition, Update 3, 8260B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices are included in the sample data sections.

VOLATILES

Analysis holding time requirements were met for all of these samples. The pH values of these samples were equal 1.

Volatile Project/Target Compound List (TCL) analytes were identified above the Reporting Limits (RL) in most of these samples. Samples MW-1, MW-2, MW-3, MW-8, MW-18, DUP-1, MW-5, MW-4, MW-19, MW-9, MW-20, MW-17, MW-16, IW-2A, IW-42B, MW-13, MW-7 and IDW-1 were initially analyzed at a dilution due to the results of a Screen. After the initial diluted analysis of samples MW-2 and MW-4 further dilutions were requested. We have reported data from both analyses of samples MW-2 and MW-4.

Manual integrations were performed on one or more of the files in this SDG.

All of the surrogates met recovery criteria in the analyses of the samples. All of the internal standards met response and retention time criteria in the analyses of the samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The associated method blanks met all quality control criteria.

Duplicate matrix spikes were not requested with this SDG. The associated Laboratory Control Samples (LCS/LCSD) met all quality control criteria.

I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Quentisha Forrester
Chemist III
July 31, 2015

	GC and GC/MS Column and Trap Specifications Table							
				COLUMNS				
Columns Utilized	Brand Name	Coating Material		ID (mm)	Film Thickness (um)			Length (m)
	GC Laboratory							
DRO/ORO	Restek	RTX-5		0.53	1.0			30
	Restek	RTX-SMS		0.53	1.0			30
√	Restek	clpest		0.32	0.5			30
√	Restek	clpest2		0.32	0.42			30
	J&W	DB-210		0.53	1.0			30
RSK	J&W	GS-GASPRO		0.32	N/A			30
	GC Volatiles Laboratory							
GRO	Restek	RTX-Volatiles		0.53	2.0			30
	GC/MS Volatiles Laboratory							
	Restek	RTX-VMS		0.18	1.0			20
√	Supelco	SPB-624		0.32	1.8			60
	Supelco	SPB-624		0.53	3.0			75
	Phenomonex	ZB-624		0.32	1.8			60
	GC/MS Semivolatiles Laboratory							
√	Restek	RTX-5Sil MS		0.32	0.25			30
	HPLC Laboratory							
PAH	Supelco	Supelcosil LC-PAH		4.6	5.0			15 cm
PAH	Supelco	Discovery RP Amide C16		4.6	5.0			25 cm
EXP	Restek	Pinnacle Cyano		4.6	5.0			25 cm
EXP	Restek	Allure C18		4.6	5.0			25 cm
			TRAPS					
	GC and GC/MS Volatiles Laboratory							
	Supelco J (BETXTRAP™)		* 7.7 cm Carbopack C					
			* 1.2 cm Carbopack B					
√	Supelco K (Vocarb3000)		* 10 cm of Carbopack B (Graphitized Carbons)					
			* 6 cm of Carboxen 1000 (Carbon molecular sieves)					
			* 1 cm of Carboxen 1001 (Carbon molecular sieves)					
								Rev. 30

This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semivolatiles, pesticides, and Aroclors by the requested analytical methods. Please see the SDG Narrative(s) for the specific fraction(s) relative to this SDG.
Note: This table also contains HPLC columns.

Liberty Analytical

Liberty Analytical's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is Liberty Analytical's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Revision 7 (01/12/2011)

Liberty Analytical

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC/HPLC chemists. An Extracted Ion Current Profile (EICP) or a GC/HPLC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC/HPLC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak. The most common reasons for performing manual integrations/editing are: the compound was not found by the automatic integration routine, the compound was incorrectly integrated by the automatic integration routine, and the co-eluting compounds were incorrectly integrated by the automatic integration routine.

H - Denotes that the data reviewer, GC/MS operator, or GC/HPLC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate GC/MS library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

These codes will appear in the GC/MS and GC/HPLC raw data.

Revision 8 (01/29/2011)

Liberty Analytical

ORGANIC DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on the appropriate reporting form for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85%), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P on the reporting form. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on the appropriate reporting form for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the appropriate reporting form for the more diluted sample, and **all** reported concentrations on that form are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate reporting forms are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single reporting form.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an “S” flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor. The “S” flag is not utilized for non CLP analyses.

* This flag is applied to a target analyte when any QC acceptance criterion has not been met for that analyte. The flag appears on the reporting form of the associated QC analysis.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

Chain of Custody Records

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the Work Order/SDG.

CHAIN OF CUSTODY

CompuChem
A Division Of
Liberty Analytical Corp.
Environmental Testing Laboratories

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON . SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type): VOCS 8260 B; NITRATE, SULFATE IC 300; Fe^{+2} SM 3500-Fe B; mg TOTAL 6010; METHANE, ETHANE, ETHENE ACETYLENE RSK 175; TOC SM 5310 B; ALKALINITY 310.2; SULFIDE SM 4500-S F; TKN 351.2; TKP 365.4

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe^{+2} SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	NO2	NO3	SO4	Cl	PO4
1507060-01	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-02	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-03	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	<2	<2	>9	<2	<2
-04	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-05	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-07	TRIP BLANK 1											X														

MW-18: received 1 Plastic liter labeled for MBT (Microbial Insights) contacted Sean - he said we can dispose of sample [illegible] 7/22/15

Lab Use Only

Sample Unpacked By: [illegible]
Sample Order Entry By: [illegible]
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4
received 2-40ml VOA 8260B vials for 1507060-06 "DUP-1" collected 7/21/15 not listed on COC [illegible] 7/22/15

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15 0802	Received by: [illegible]	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

pick-up @ client
direct delivery back to lab

TR GUN: SN0010

CompuChem
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Liberty Analytical Corp.

Revised

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N MW-18 7/21/15
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH / Sample Info (Lab Use)
	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	TRIP BLANK 1											X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014.EATN/4

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15	Received by:	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem
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CHAIN OF CUSTODY

2013.0014/4

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 1 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Total # Bottles	Total # Vials	Total # Jars	Total # Other
1507060-08	MW-5	7/22	815	GW	12							X	X	X	X	X	X	X	X	X		12	12	9	12
-09	MW-14		925		12							X	X	X	X	X	X	X	X	X		12	12	9	12
-10	MW-4		1055		12							X	X	X	X	X	X	X	X	X		12	12	5	12
-11	MW-19		1215		12							X	X	X	X	X	X	X	X	X		12	12	5	12
-12	MW-11		1320		12							X	X	X	X	X	X	X	X	X		12	12	9	12
-13	MW-9		1410		12							X	X	X	X	X	X	X	X	X		12	12	9	12
-14	MW-20		1450		12							X	X	X	X	X	X	X	X	X		12	12	9	12
-20	TRIP BLANK-2		—		2							X													
-15	MW-17		1540		12							X	X	X	X	X	X	X	X	X		12	12	9	12
-16	MW-15		1510		12							X	X	X	X	X	X	X	X	X		12	12	9	12
-17	MW-16		1210		12							X	X	X	X	X	X	X	X	X		12	12	9	12

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4
VOA cooler → 0.1°C

Sample Custody

Relinquished by:	Date/Time: 7/22/15	Received by:	Date/Time: 7-23-15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 1.2, 0.2, 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pick-up from client

IR GUN: SN0010

CompuChem
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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

2013.0014/4

Page 2 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH Sample Info (Lab Use)
1507060-18	IW-2A	7/22	1040	GW	10							X	X			X	X		X	X	X	
1 -19	IW-42B	7/22	1410	GW	10							X	X			X	X		X	X	X	

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

Sample Custody

Relinquished by:	Date/Time: 7/23/15	Received by:	Date/Time: 8-33 15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pick-up from client

sample ID	pH
1507060-17 MW-16	8
-10 MW-4	5
-11 MW-19	5

CompuChem
a division of Liberty Analytical Corporation

QUALITY ASSURANCE NOTICE

CompuChem ID # _____
Client ID # MW-16, MW-4, MW-19
Case # _____
Type of Analysis sulfide
Receipt Date 7/23/15

The pH reading for the sample above was * see chart above; the required pH level is >9.

A CompuChem Project Manager contacted the client who instructed the laboratory to:

Preserve in-house ✓

Note: For samples preserved in house, certain clients require that the maximum amount of preservative added to a sample in an SDG also be added to the associated field or equipment blank. If neither blank is present, the appropriate laboratory must be notified so the proper amount of preservation can be added to the method blank.

Analyze - qualify with notice ✓

Dispose - client will resample _____

Subcontract lab to preserve _____

Project Manager [signature] Date 7/23/15

Preservation Type Zinc Acetate / 6 N NaOH Preservative Lot Number 3L16031/4L10015

Preserved By [signature] Date 7/23/15

QAN-R-2
020529

QAN-R-2:052902:llc

CompuChem
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2013.0014/4

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe^{+2} SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Sample Info
1507060-21	MW-13	7/23/15	1010	GW	12	X	X	X	X			X	X	X	X	X	X	X	X	X		
-22	MW-7		0930	GW	3	X						X										
-24	TB-3		—	DI	3	X						X										
-23	IDW-1		1000	GW	3	X						X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

OK per Jody for 21 VOC + 3 TB in WO# 1507060 7/23/15

Sample Custody

Relinquished by:	Date/Time: 7/23/15 1630	Received by: CompuChem	Date/Time: 7/23/15 1630
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 4.9 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pickup from client IR GUN: SN0015

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Report To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone: (919) 873-1060
Fax: -

Invoice To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone :(919) 873-1060
Fax: -

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-01 MW-1 [Water] Sampled 07/21/2015 12:35 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:35	07/22/2015 08:02	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-02 MW-2 [Water] Sampled 07/21/2015 15:15 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:15	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-03 MW-3 [Water] Sampled 07/21/2015 14:40 Eastern					
6010C METALS	08/05/2015 16:00	13	01/17/2016 14:40	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
1507060-04 MW-8 [Water] Sampled 07/21/2015 12:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:55	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-05 MW-18 [Water] Sampled 07/21/2015 15:50 Eastern					**HIGH CONC. EXPECTED**
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:50	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-06 DUP-1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-07 TRIP BLANK1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-08 MW-5 [Water] Sampled 07/22/2015 08:15 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 08:15	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-09 MW-14 [Water] Sampled 07/22/2015 09:25 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
6010C METALS	08/05/2015 16:00	13	01/18/2016 09:25	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-10 MW-4 [Water] Sampled 07/22/2015 10:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 10:55	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

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Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-11 MW-19 [Water] Sampled 07/22/2015 12:15 Eastern					
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:15	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
1507060-12 MW-11 [Water] Sampled 07/22/2015 13:20 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 13:20	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)

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Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-13 MW-9 [Water] Sampled 07/22/2015 14:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-14 MW-20 [Water] Sampled 07/22/2015 14:50 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:50	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)

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Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-15 MW-17 [Water] Sampled 07/22/2015 15:40 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:40	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
1507060-16 MW-15 [Water] Sampled 07/22/2015 15:10 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:10	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-17 MW-16 [Water] Sampled 07/22/2015 12:10 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
1507060-18 IW-2A [Water] Sampled 07/22/2015 10:40 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
1507060-19 IW-42B [Water] Sampled 07/22/2015 14:10 Eastern					
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-20 TRIP BLANK2 [Water] Sampled 07/22/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 00:00	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-21 MW-13 [Water] Sampled 07/23/2015 10:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/16/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/30/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/19/2016 10:10	07/23/2015 16:30	
1507060-22 MW-7 [Water] Sampled 07/23/2015 09:30 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 09:30	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-23 IDW-1 [Water] Sampled 07/23/2015 10:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-24 TB-3 [Water] Sampled 07/23/2015 00:00 Eastern					**TRIP BLANK**
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 00:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)

SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G28006 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Blank (5072809-BLK1) ug/L				
Lab File ID: 5072809-BLK1R91.d	Analyzed: 07/28/15 19:03			
Dibromofluoromethane	5.000	108	65 - 150	
1,2-Dichloroethane-d4	5.000	117	59 - 150	
Toluene-d8	5.000	100	61 - 145	
Bromofluorobenzene	5.000	93	63 - 143	
LCS (5072809-BS1) ug/L				
Lab File ID: 5072809-BS191.d	Analyzed: 07/28/15 19:42			
Dibromofluoromethane	5.000	98	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	98	61 - 145	
Bromofluorobenzene	5.000	93	63 - 143	
LCS Dup (5072809-BSD1) ug/L				
Lab File ID: 5072809-BSD191.d	Analyzed: 07/28/15 20:13			
Dibromofluoromethane	5.000	98	65 - 150	
1,2-Dichloroethane-d4	5.000	106	59 - 150	
Toluene-d8	5.000	100	61 - 145	
Bromofluorobenzene	5.000	95	63 - 143	
TRIP BLANK1 (1507060-07) ug/L				
Lab File ID: 1507060-0791.d	Analyzed: 07/29/15 01:15			
Dibromofluoromethane	5.000	116	65 - 150	
1,2-Dichloroethane-d4	5.000	123	59 - 150	
Toluene-d8	5.000	104	61 - 145	
Bromofluorobenzene	5.000	92	63 - 143	
MW-1 (1507060-01) ug/L				
Lab File ID: 1507060-0191.d	Analyzed: 07/29/15 01:46			
Dibromofluoromethane	5.000	111	65 - 150	
1,2-Dichloroethane-d4	5.000	117	59 - 150	
Toluene-d8	5.000	97	61 - 145	
Bromofluorobenzene	5.000	92	63 - 143	

Liberty Analytical

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SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G28006 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
MW-2 (1507060-02) ug/L				
Lab File ID: 1507060-0291.d	Analyzed: 07/29/15 02:18			
Dibromofluoromethane	5.000	116	65 - 150	
1,2-Dichloroethane-d4	5.000	122	59 - 150	
Toluene-d8	5.000	106	61 - 145	
Bromofluorobenzene	5.000	94	63 - 143	
MW-4 (1507060-10) ug/L				
Lab File ID: 1507060-1091.d	Analyzed: 07/29/15 04:24			
Dibromofluoromethane	5.000	107	65 - 150	
1,2-Dichloroethane-d4	5.000	116	59 - 150	
Toluene-d8	5.000	100	61 - 145	
Bromofluorobenzene	5.000	100	63 - 143	

SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G29004 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Blank (5072902-BLK1) ug/L				
Lab File ID: 5072902-BLK1R91.d	Analyzed: 07/29/15 19:14			
Dibromofluoromethane	5.000	112	65 - 150	
1,2-Dichloroethane-d4	5.000	115	59 - 150	
Toluene-d8	5.000	110	61 - 145	
Bromofluorobenzene	5.000	105	63 - 143	
LCS (5072902-BS1) ug/L				
Lab File ID: 5072902-BS191.d	Analyzed: 07/29/15 19:45			
Dibromofluoromethane	5.000	98	65 - 150	
1,2-Dichloroethane-d4	5.000	103	59 - 150	
Toluene-d8	5.000	101	61 - 145	
Bromofluorobenzene	5.000	96	63 - 143	
LCS Dup (5072902-BSD1) ug/L				
Lab File ID: 5072902-BSD191.d	Analyzed: 07/29/15 20:17			
Dibromofluoromethane	5.000	97	65 - 150	
1,2-Dichloroethane-d4	5.000	101	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
MW-5 (1507060-08) ug/L				
Lab File ID: 1507060-08D91.d	Analyzed: 07/29/15 21:20			
Dibromofluoromethane	5.000	111	65 - 150	
1,2-Dichloroethane-d4	5.000	115	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	104	63 - 143	
MW-14 (1507060-09) ug/L				
Lab File ID: 1507060-09R91.d	Analyzed: 07/29/15 21:51			
Dibromofluoromethane	5.000	116	65 - 150	
1,2-Dichloroethane-d4	5.000	120	59 - 150	
Toluene-d8	5.000	107	61 - 145	
Bromofluorobenzene	5.000	96	63 - 143	

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SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G29004 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
MW-11 (1507060-12) ug/L				
Lab File ID: 1507060-1291.d	Analyzed: 07/29/15 22:23			
Dibromofluoromethane	5.000	115	65 - 150	
1,2-Dichloroethane-d4	5.000	119	59 - 150	
Toluene-d8	5.000	111	61 - 145	
Bromofluorobenzene	5.000	101	63 - 143	
MW-9 (1507060-13) ug/L				
Lab File ID: 1507060-1391.d	Analyzed: 07/29/15 22:54			
Dibromofluoromethane	5.000	121	65 - 150	
1,2-Dichloroethane-d4	5.000	126	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	103	63 - 143	
MW-20 (1507060-14) ug/L				
Lab File ID: 1507060-1491.d	Analyzed: 07/29/15 23:26			
Dibromofluoromethane	5.000	119	65 - 150	
1,2-Dichloroethane-d4	5.000	123	59 - 150	
Toluene-d8	5.000	109	61 - 145	
Bromofluorobenzene	5.000	103	63 - 143	

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SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G30005 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Blank (5073005-BLK1) ug/L				
Lab File ID: 5073005-BLK1R91.d	Analyzed: 07/30/15 12:48			
Dibromofluoromethane	5.000	117	65 - 150	
1,2-Dichloroethane-d4	5.000	123	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	99	63 - 143	
LCS (5073005-BS1) ug/L				
Lab File ID: 5073005-BS191.d	Analyzed: 07/30/15 13:24			
Dibromofluoromethane	5.000	104	65 - 150	
1,2-Dichloroethane-d4	5.000	111	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
LCS Dup (5073005-BSD1) ug/L				
Lab File ID: 5073005-BSD191.d	Analyzed: 07/30/15 13:56			
Dibromofluoromethane	5.000	100	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	101	63 - 143	
MW-15 (1507060-16) ug/L				
Lab File ID: 1507060-1691.d	Analyzed: 07/30/15 14:34			
Dibromofluoromethane	5.000	115	65 - 150	
1,2-Dichloroethane-d4	5.000	119	59 - 150	
Toluene-d8	5.000	110	61 - 145	
Bromofluorobenzene	5.000	106	63 - 143	
IW-42B (1507060-19) ug/L				
Lab File ID: 1507060-1991.d	Analyzed: 07/30/15 15:05			
Dibromofluoromethane	5.000	111	65 - 150	
1,2-Dichloroethane-d4	5.000	118	59 - 150	
Toluene-d8	5.000	108	61 - 145	
Bromofluorobenzene	5.000	104	63 - 143	

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SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G30005 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
TRIP BLANK2 (1507060-20) ug/L				
Lab File ID: 1507060-2091.d	Analyzed: 07/30/15 15:37			
Dibromofluoromethane	5.000	120	65 - 150	
1,2-Dichloroethane-d4	5.000	124	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	110	63 - 143	
MW-13 (1507060-21) ug/L				
Lab File ID: 1507060-2191.d	Analyzed: 07/30/15 16:08			
Dibromofluoromethane	5.000	117	65 - 150	
1,2-Dichloroethane-d4	5.000	122	59 - 150	
Toluene-d8	5.000	102	61 - 145	
Bromofluorobenzene	5.000	101	63 - 143	
MW-7 (1507060-22) ug/L				
Lab File ID: 1507060-2291.d	Analyzed: 07/30/15 16:40			
Dibromofluoromethane	5.000	118	65 - 150	
1,2-Dichloroethane-d4	5.000	120	59 - 150	
Toluene-d8	5.000	101	61 - 145	
Bromofluorobenzene	5.000	100	63 - 143	
IDW-1 (1507060-23) ug/L				
Lab File ID: 1507060-2391.d	Analyzed: 07/30/15 17:11			
Dibromofluoromethane	5.000	117	65 - 150	
1,2-Dichloroethane-d4	5.000	121	59 - 150	
Toluene-d8	5.000	102	61 - 145	
Bromofluorobenzene	5.000	100	63 - 143	
TB-3 (1507060-24) ug/L				
Lab File ID: 1507060-2491.d	Analyzed: 07/30/15 18:14			
Dibromofluoromethane	5.000	120	65 - 150	
1,2-Dichloroethane-d4	5.000	125	59 - 150	
Toluene-d8	5.000	102	61 - 145	
Bromofluorobenzene	5.000	104	63 - 143	

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SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G30005 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
MW-17 (1507060-15) ug/L				
Lab File ID: 1507060-1591.d	Analyzed: 07/30/15 18:45			
Dibromofluoromethane	5.000	120	65 - 150	
1,2-Dichloroethane-d4	5.000	123	59 - 150	
Toluene-d8	5.000	108	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
MW-16 (1507060-17) ug/L				
Lab File ID: 1507060-1791.d	Analyzed: 07/30/15 19:17			
Dibromofluoromethane	5.000	120	65 - 150	
1,2-Dichloroethane-d4	5.000	122	59 - 150	
Toluene-d8	5.000	109	61 - 145	
Bromofluorobenzene	5.000	99	63 - 143	
IW-2A (1507060-18) ug/L				
Lab File ID: 1507060-1891.d	Analyzed: 07/30/15 20:19			
Dibromofluoromethane	5.000	122	65 - 150	
1,2-Dichloroethane-d4	5.000	127	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	103	63 - 143	
MW-3 (1507060-03) ug/L				
Lab File ID: 1507060-03D91.d	Analyzed: 07/30/15 20:51			
Dibromofluoromethane	5.000	120	65 - 150	
1,2-Dichloroethane-d4	5.000	123	59 - 150	
Toluene-d8	5.000	99	61 - 145	
Bromofluorobenzene	5.000	99	63 - 143	
MW-8 (1507060-04) ug/L				
Lab File ID: 1507060-0491.d	Analyzed: 07/30/15 21:24			
Dibromofluoromethane	5.000	120	65 - 150	
1,2-Dichloroethane-d4	5.000	122	59 - 150	
Toluene-d8	5.000	109	61 - 145	
Bromofluorobenzene	5.000	97	63 - 143	

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SURROGATE STANDARD RECOVERY

SW 8260B

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

SDG: 1507060 Instrument: 5975hpms91

Sequence: 5G30005 Calibration: 5072401

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
MW-18 (1507060-05) ug/L				
Lab File ID: 1507060-0591.d	Analyzed: 07/30/15 21:58			
Dibromofluoromethane	5.000	119	65 - 150	
1,2-Dichloroethane-d4	5.000	128	59 - 150	
Toluene-d8	5.000	102	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
DUP-1 (1507060-06) ug/L				
Lab File ID: 1507060-0691.d	Analyzed: 07/30/15 22:30			
Dibromofluoromethane	5.000	122	65 - 150	
1,2-Dichloroethane-d4	5.000	129	59 - 150	
Toluene-d8	5.000	106	61 - 145	
Bromofluorobenzene	5.000	96	63 - 143	
MW-19 (1507060-11) ug/L				
Lab File ID: 1507060-11D91.d	Analyzed: 07/30/15 23:02			
Dibromofluoromethane	5.000	120	65 - 150	
1,2-Dichloroethane-d4	5.000	125	59 - 150	
Toluene-d8	5.000	104	61 - 145	
Bromofluorobenzene	5.000	99	63 - 143	

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072809-BS1 Matrix: Water Client ID: VLCSSR Batch: 5072809

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
1,1,1-Trichloroethane	5.000	4.67	93		71 - 137
1,1,2,2-Tetrachloroethane	5.000	4.82	96		63 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.000	4.40	88		78 - 150
1,1,2-Trichloroethane	5.000	4.84	97		68 - 130
1,1-Dichloroethane	5.000	5.12	102		59 - 138
1,1-Dichloroethene	5.000	3.93	79		74 - 143
1,2,4-Trichlorobenzene	5.000	3.86	77		52 - 147
1,2-Dibromo-3-chloropropane	5.000	4.58	92		71 - 128
1,2-Dibromoethane	5.000	4.55	91		73 - 128
1,2-Dichlorobenzene	5.000	4.61	92		71 - 127
1,2-Dichloroethane	5.000	5.15	103		61 - 150
1,2-Dichloropropane	5.000	5.24	105		67 - 137
1,3-Dichlorobenzene	5.000	4.74	95		64 - 136
1,4-Dichlorobenzene	5.000	4.66	93		69 - 125
2-Butanone	25.00	22.0	88		65 - 134
2-Hexanone	25.00	22.8	91		53 - 140
4-Methyl-2-pentanone	25.00	24.7	99		66 - 127
Acetone	25.00	26.1	105		50 - 150
Benzene	5.000	5.03	101		68 - 138
Bromodichloromethane	5.000	5.34	107		73 - 142
Bromoform	5.000	4.60	92		62 - 138
Bromomethane	5.000	5.82	116		50 - 150
Carbon disulfide	5.000	5.09	102		50 - 150
Carbon tetrachloride	5.000	4.47	89		68 - 145
Chlorobenzene	5.000	4.79	96		68 - 129
Chloroethane	5.000	6.23	125		54 - 150
Chloroform	5.000	5.16	103		67 - 147

Liberty Analytical

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072809-BS1 Matrix: Water Client ID: VLCSSR Batch: 5072809

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Chloromethane	5.000	6.03	121		50 - 150
cis-1,2-Dichloroethene	5.000	4.66	93		69 - 140
cis-1,3-Dichloropropene	5.000	4.75	95		74 - 134
Cyclohexane	5.000	4.93	99		60 - 140
Dibromochloromethane	5.000	4.79	96		68 - 137
Dichlorodifluoromethane	5.000	5.81	116		50 - 150
Ethylbenzene	5.000	4.54	91		67 - 127
Isopropylbenzene	5.000	4.26	85		56 - 143
m,p-Xylene	10.00	9.42	94		60 - 140
Methyl acetate	5.000	3.93	79		50 - 150
Methyl tert-butyl ether	5.000	4.51	90		68 - 134
Methylcyclohexane	5.000	4.72	94		50 - 150
Methylene chloride	5.000	4.96	99		50 - 139
o-Xylene	5.000	4.88	98		60 - 140
Styrene	5.000	4.43	89		66 - 139
Tetrachloroethene	5.000	4.10	82		65 - 137
Toluene	5.000	4.83	97		60 - 142
trans-1,2-Dichloroethene	5.000	4.91	98		50 - 137
trans-1,3-Dichloropropene	5.000	5.22	104		66 - 130
Trichloroethene	5.000	4.23	85		55 - 150
Trichlorofluoromethane	5.000	5.78	116		56 - 150
Vinyl chloride	5.000	5.86	117		61 - 150

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072809-BSD1 Matrix: Water Client ID: VLCSDSR Batch: 5072809

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
1,1,1-Trichloroethane	5.000	4.62	92	1	25		71 - 137
1,1,2,2-Tetrachloroethane	5.000	5.19	104	7	25		63 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.000	4.42	88	0.6	25		78 - 150
1,1,2-Trichloroethane	5.000	5.12	102	6	25		68 - 130
1,1-Dichloroethane	5.000	5.22	104	2	25		59 - 138
1,1-Dichloroethene	5.000	4.18	84	6	14		74 - 143
1,2,4-Trichlorobenzene	5.000	4.07	81	5	25		52 - 147
1,2-Dibromo-3-chloropropane	5.000	5.20	104	13	25		71 - 128
1,2-Dibromoethane	5.000	4.82	96	6	25		73 - 128
1,2-Dichlorobenzene	5.000	4.87	97	5	25		71 - 127
1,2-Dichloroethane	5.000	5.27	105	2	25		61 - 150
1,2-Dichloropropane	5.000	5.23	105	0.2	25		67 - 137
1,3-Dichlorobenzene	5.000	4.93	99	4	25		64 - 136
1,4-Dichlorobenzene	5.000	4.82	96	3	25		69 - 125
2-Butanone	25.00	24.5	98	11	25		65 - 134
2-Hexanone	25.00	25.7	103	12	25		53 - 140
4-Methyl-2-pentanone	25.00	27.5	110	11	25		66 - 127
Acetone	25.00	29.2	117	11	25		50 - 150
Benzene	5.000	5.05	101	0.2	11		68 - 138
Bromodichloromethane	5.000	5.30	106	0.6	25		73 - 142
Bromoform	5.000	4.83	97	5	25		62 - 138
Bromomethane	5.000	5.58	112	4	25		50 - 150
Carbon disulfide	5.000	5.16	103	1	25		50 - 150
Carbon tetrachloride	5.000	4.46	89	0.3	25		68 - 145
Chlorobenzene	5.000	4.92	98	3	13		68 - 129
Chloroethane	5.000	6.26	125	0.4	25		54 - 150
Chloroform	5.000	5.16	103	0.1	25		67 - 147

Liberty Analytical

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072809-BSD1 Matrix: Water Client ID: VLCSDSR Batch: 5072809

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Chloromethane	5.000	6.41	128	6	25		50 - 150
cis-1,2-Dichloroethene	5.000	4.77	95	2	25		69 - 140
cis-1,3-Dichloropropene	5.000	4.87	97	3	25		74 - 134
Cyclohexane	5.000	5.04	101	2	25		60 - 140
Dibromochloromethane	5.000	5.01	100	5	25		68 - 137
Dichlorodifluoromethane	5.000	5.98	120	3	25		50 - 150
Ethylbenzene	5.000	4.69	94	3	25		67 - 127
Isopropylbenzene	5.000	4.34	87	2	25		56 - 143
m,p-Xylene	10.00	9.61	96	2	25		60 - 140
Methyl acetate	5.000	4.32	86	9	25		50 - 150
Methyl tert-butyl ether	5.000	4.86	97	7	25		68 - 134
Methylcyclohexane	5.000	4.76	95	0.7	25		50 - 150
Methylene chloride	5.000	5.10	102	3	25		50 - 139
o-Xylene	5.000	4.94	99	1	25		60 - 140
Styrene	5.000	4.54	91	2	25		66 - 139
Tetrachloroethene	5.000	4.35	87	6	25		65 - 137
Toluene	5.000	4.96	99	3	13		60 - 142
trans-1,2-Dichloroethene	5.000	4.98	100	1	25		50 - 137
trans-1,3-Dichloropropene	5.000	5.43	109	4	25		66 - 130
Trichloroethene	5.000	4.28	86	1	14		55 - 150
Trichlorofluoromethane	5.000	5.70	114	1	25		56 - 150
Vinyl chloride	5.000	6.29	126	7	25		61 - 150

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072902-BS1 Matrix: Water Client ID: VLCSSS Batch: 5072902

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
1,1,1-Trichloroethane	5.000	5.09	102		71 - 137
1,1,2,2-Tetrachloroethane	5.000	5.50	110		63 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.000	5.32	106		78 - 150
1,1,2-Trichloroethane	5.000	5.23	105		68 - 130
1,1-Dichloroethane	5.000	5.18	104		59 - 138
1,1-Dichloroethene	5.000	4.48	90		74 - 143
1,2,4-Trichlorobenzene	5.000	4.07	81		52 - 147
1,2-Dibromo-3-chloropropane	5.000	4.80	96		71 - 128
1,2-Dibromoethane	5.000	4.78	96		73 - 128
1,2-Dichlorobenzene	5.000	5.02	100		71 - 127
1,2-Dichloroethane	5.000	5.24	105		61 - 150
1,2-Dichloropropane	5.000	5.70	114		67 - 137
1,3-Dichlorobenzene	5.000	5.16	103		64 - 136
1,4-Dichlorobenzene	5.000	5.00	100		69 - 125
2-Butanone	25.00	21.6	86		65 - 134
2-Hexanone	25.00	22.9	92		53 - 140
4-Methyl-2-pentanone	25.00	25.8	103		66 - 127
Acetone	25.00	23.9	95		50 - 150
Benzene	5.000	5.33	107		68 - 138
Bromodichloromethane	5.000	5.14	103		73 - 142
Bromoform	5.000	4.71	94		62 - 138
Bromomethane	5.000	4.65	93		50 - 150
Carbon disulfide	5.000	5.40	108		50 - 150
Carbon tetrachloride	5.000	5.09	102		68 - 145
Chlorobenzene	5.000	5.12	102		68 - 129
Chloroethane	5.000	5.74	115		54 - 150
Chloroform	5.000	5.34	107		67 - 147

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072902-BS1 Matrix: Water Client ID: VLCSSS Batch: 5072902

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Chloromethane	5.000	5.05	101		50 - 150
cis-1,2-Dichloroethene	5.000	4.98	100		69 - 140
cis-1,3-Dichloropropene	5.000	4.75	95		74 - 134
Cyclohexane	5.000	5.10	102		60 - 140
Dibromochloromethane	5.000	4.87	97		68 - 137
Dichlorodifluoromethane	5.000	5.04	101		50 - 150
Ethylbenzene	5.000	5.19	104		67 - 127
Isopropylbenzene	5.000	5.09	102		56 - 143
m,p-Xylene	10.00	10.6	106		60 - 140
Methyl acetate	5.000	4.97	99		50 - 150
Methyl tert-butyl ether	5.000	4.18	84		68 - 134
Methylcyclohexane	5.000	4.82	96		50 - 150
Methylene chloride	5.000	5.26	105		50 - 139
o-Xylene	5.000	5.23	105		60 - 140
Styrene	5.000	4.68	94		66 - 139
Tetrachloroethene	5.000	4.83	97		65 - 137
Toluene	5.000	5.34	107		60 - 142
trans-1,2-Dichloroethene	5.000	5.34	107		50 - 137
trans-1,3-Dichloropropene	5.000	5.44	109		66 - 130
Trichloroethene	5.000	4.43	89		55 - 150
Trichlorofluoromethane	5.000	5.53	111		56 - 150
Vinyl chloride	5.000	5.57	111		61 - 150

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072902-BSD1 Matrix: Water Client ID: VLCSDSS Batch: 5072902

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
1,1,1-Trichloroethane	5.000	5.03	101	1	25		71 - 137
1,1,2,2-Tetrachloroethane	5.000	5.51	110	0.2	25		63 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.000	5.19	104	3	25		78 - 150
1,1,2-Trichloroethane	5.000	5.19	104	0.8	25		68 - 130
1,1-Dichloroethane	5.000	5.21	104	0.6	25		59 - 138
1,1-Dichloroethene	5.000	4.58	92	2	14		74 - 143
1,2,4-Trichlorobenzene	5.000	4.34	87	6	25		52 - 147
1,2-Dibromo-3-chloropropane	5.000	5.07	101	5	25		71 - 128
1,2-Dibromoethane	5.000	4.82	96	0.7	25		73 - 128
1,2-Dichlorobenzene	5.000	5.12	102	2	25		71 - 127
1,2-Dichloroethane	5.000	5.07	101	3	25		61 - 150
1,2-Dichloropropane	5.000	5.58	112	2	25		67 - 137
1,3-Dichlorobenzene	5.000	5.23	105	1	25		64 - 136
1,4-Dichlorobenzene	5.000	5.10	102	2	25		69 - 125
2-Butanone	25.00	21.4	86	0.7	25		65 - 134
2-Hexanone	25.00	23.4	94	2	25		53 - 140
4-Methyl-2-pentanone	25.00	26.2	105	1	25		66 - 127
Acetone	25.00	23.4	94	2	25		50 - 150
Benzene	5.000	5.27	105	1	11		68 - 138
Bromodichloromethane	5.000	5.02	100	2	25		73 - 142
Bromoform	5.000	4.70	94	0.1	25		62 - 138
Bromomethane	5.000	4.57	91	2	25		50 - 150
Carbon disulfide	5.000	5.35	107	1	25		50 - 150
Carbon tetrachloride	5.000	5.01	100	2	25		68 - 145
Chlorobenzene	5.000	5.15	103	0.6	13		68 - 129
Chloroethane	5.000	5.60	112	2	25		54 - 150
Chloroform	5.000	5.19	104	3	25		67 - 147

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072902-BSD1 Matrix: Water Client ID: VLCSDSS Batch: 5072902

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Chloromethane	5.000	5.12	102	1	25		50 - 150
cis-1,2-Dichloroethene	5.000	5.00	100	0.5	25		69 - 140
cis-1,3-Dichloropropene	5.000	4.70	94	0.9	25		74 - 134
Cyclohexane	5.000	5.09	102	0.1	25		60 - 140
Dibromochloromethane	5.000	4.89	98	0.4	25		68 - 137
Dichlorodifluoromethane	5.000	5.20	104	3	25		50 - 150
Ethylbenzene	5.000	5.27	105	2	25		67 - 127
Isopropylbenzene	5.000	5.19	104	2	25		56 - 143
m,p-Xylene	10.00	10.8	108	2	25		60 - 140
Methyl acetate	5.000	4.84	97	3	25		50 - 150
Methyl tert-butyl ether	5.000	4.28	86	2	25		68 - 134
Methylcyclohexane	5.000	4.84	97	0.4	25		50 - 150
Methylene chloride	5.000	5.19	104	1	25		50 - 139
o-Xylene	5.000	5.27	105	0.7	25		60 - 140
Styrene	5.000	4.81	96	3	25		66 - 139
Tetrachloroethene	5.000	4.84	97	0.09	25		65 - 137
Toluene	5.000	5.42	108	1	13		60 - 142
trans-1,2-Dichloroethene	5.000	5.22	104	2	25		50 - 137
trans-1,3-Dichloropropene	5.000	5.51	110	1	25		66 - 130
Trichloroethene	5.000	4.41	88	0.4	14		55 - 150
Trichlorofluoromethane	5.000	5.39	108	2	25		56 - 150
Vinyl chloride	5.000	5.86	117	5	25		61 - 150

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073005-BS1 Matrix: Water Client ID: VLCSST Batch: 5073005

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
1,1,1-Trichloroethane	5.000	5.18	104		71 - 137
1,1,2,2-Tetrachloroethane	5.000	5.43	109		63 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.000	5.41	108		78 - 150
1,1,2-Trichloroethane	5.000	5.20	104		68 - 130
1,1-Dichloroethane	5.000	5.23	105		59 - 138
1,1-Dichloroethene	5.000	4.30	86		74 - 143
1,2,4-Trichlorobenzene	5.000	3.75	75		52 - 147
1,2-Dibromo-3-chloropropane	5.000	4.70	94		71 - 128
1,2-Dibromoethane	5.000	4.73	95		73 - 128
1,2-Dichlorobenzene	5.000	4.90	98		71 - 127
1,2-Dichloroethane	5.000	5.35	107		61 - 150
1,2-Dichloropropane	5.000	5.81	116		67 - 137
1,3-Dichlorobenzene	5.000	5.01	100		64 - 136
1,4-Dichlorobenzene	5.000	4.90	98		69 - 125
2-Butanone	25.00	20.6	83		65 - 134
2-Hexanone	25.00	22.1	89		53 - 140
4-Methyl-2-pentanone	25.00	24.8	99		66 - 127
Acetone	25.00	24.1	96		50 - 150
Benzene	5.000	5.39	108		68 - 138
Bromodichloromethane	5.000	5.25	105		73 - 142
Bromoform	5.000	4.58	92		62 - 138
Bromomethane	5.000	4.42	88		50 - 150
Carbon disulfide	5.000	5.39	108		50 - 150
Carbon tetrachloride	5.000	5.17	103		68 - 145
Chlorobenzene	5.000	4.97	99		68 - 129
Chloroethane	5.000	5.58	112		54 - 150
Chloroform	5.000	5.45	109		67 - 147

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073005-BS1 Matrix: Water Client ID: VLCSST Batch: 5073005

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Chloromethane	5.000	4.86	97		50 - 150
cis-1,2-Dichloroethene	5.000	4.97	99		69 - 140
cis-1,3-Dichloropropene	5.000	4.26	85		74 - 134
Cyclohexane	5.000	5.11	102		60 - 140
Dibromochloromethane	5.000	4.77	95		68 - 137
Dichlorodifluoromethane	5.000	5.18	104		50 - 150
Ethylbenzene	5.000	5.07	101		67 - 127
Isopropylbenzene	5.000	4.89	98		56 - 143
m,p-Xylene	10.00	10.3	103		60 - 140
Methyl acetate	5.000	4.97	99		50 - 150
Methyl tert-butyl ether	5.000	4.08	82		68 - 134
Methylcyclohexane	5.000	4.80	96		50 - 150
Methylene chloride	5.000	5.36 B	107		50 - 139
o-Xylene	5.000	5.10	102		60 - 140
Styrene	5.000	4.57	91		66 - 139
Tetrachloroethene	5.000	4.79	96		65 - 137
Toluene	5.000	5.18	104		60 - 142
trans-1,2-Dichloroethene	5.000	5.26	105		50 - 137
trans-1,3-Dichloropropene	5.000	5.11	102		66 - 130
Trichloroethene	5.000	4.30	86		55 - 150
Trichlorofluoromethane	5.000	5.62	112		56 - 150
Vinyl chloride	5.000	5.51	110		61 - 150

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073005-BSD1 Matrix: Water Client ID: VLCSDST Batch: 5073005

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
1,1,1-Trichloroethane	5.000	5.11	102	1	25		71 - 137
1,1,2,2-Tetrachloroethane	5.000	5.60	112	3	25		63 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	5.000	5.26	105	3	25		78 - 150
1,1,2-Trichloroethane	5.000	5.25	105	1	25		68 - 130
1,1-Dichloroethane	5.000	5.32	106	2	25		59 - 138
1,1-Dichloroethene	5.000	4.52	90	5	14		74 - 143
1,2,4-Trichlorobenzene	5.000	4.27	85	13	25		52 - 147
1,2-Dibromo-3-chloropropane	5.000	4.92	98	5	25		71 - 128
1,2-Dibromoethane	5.000	4.77	95	0.8	25		73 - 128
1,2-Dichlorobenzene	5.000	5.14	103	5	25		71 - 127
1,2-Dichloroethane	5.000	5.17	103	3	25		61 - 150
1,2-Dichloropropane	5.000	5.65	113	3	25		67 - 137
1,3-Dichlorobenzene	5.000	5.29	106	5	25		64 - 136
1,4-Dichlorobenzene	5.000	5.11	102	4	25		69 - 125
2-Butanone	25.00	21.0	84	2	25		65 - 134
2-Hexanone	25.00	22.9	92	3	25		53 - 140
4-Methyl-2-pentanone	25.00	25.4	102	2	25		66 - 127
Acetone	25.00	23.8	95	1	25		50 - 150
Benzene	5.000	5.35	107	0.7	11		68 - 138
Bromodichloromethane	5.000	5.08	102	3	25		73 - 142
Bromoform	5.000	4.73	95	3	25		62 - 138
Bromomethane	5.000	4.60	92	4	25		50 - 150
Carbon disulfide	5.000	5.38	108	0.07	25		50 - 150
Carbon tetrachloride	5.000	5.10	102	1	25		68 - 145
Chlorobenzene	5.000	5.18	104	4	13		68 - 129
Chloroethane	5.000	5.66	113	1	25		54 - 150
Chloroform	5.000	5.32	106	2	25		67 - 147

Liberty Analytical

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073005-BSD1 Matrix: Water Client ID: VLCSDST Batch: 5073005

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Chloromethane	5.000	5.30	106	9	25		50 - 150
cis-1,2-Dichloroethene	5.000	4.95	99	0.4	25		69 - 140
cis-1,3-Dichloropropene	5.000	4.32	86	2	25		74 - 134
Cyclohexane	5.000	5.16	103	0.8	25		60 - 140
Dibromochloromethane	5.000	4.89	98	3	25		68 - 137
Dichlorodifluoromethane	5.000	5.35	107	3	25		50 - 150
Ethylbenzene	5.000	5.26	105	4	25		67 - 127
Isopropylbenzene	5.000	5.17	103	5	25		56 - 143
m,p-Xylene	10.00	10.7	107	4	25		60 - 140
Methyl acetate	5.000	4.89	98	2	25		50 - 150
Methyl tert-butyl ether	5.000	4.21	84	3	25		68 - 134
Methylcyclohexane	5.000	4.88	98	2	25		50 - 150
Methylene chloride	5.000	5.26 B	105	2	25		50 - 139
o-Xylene	5.000	5.24	105	3	25		60 - 140
Styrene	5.000	4.09	82	11	25		66 - 139
Tetrachloroethene	5.000	4.89	98	2	25		65 - 137
Toluene	5.000	5.46	109	5	13		60 - 142
trans-1,2-Dichloroethene	5.000	5.25	105	0.1	25		50 - 137
trans-1,3-Dichloropropene	5.000	5.11	102	0.03	25		66 - 130
Trichloroethene	5.000	4.43	89	3	14		55 - 150
Trichlorofluoromethane	5.000	5.51	110	2	25		56 - 150
Vinyl chloride	5.000	5.84	117	6	25		61 - 150

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PREPARATION BATCH SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072809 Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/28/15 19:03	25.0	25.0
MW-2	1507060-02	07/28/15 19:03	25.0	25.0
TRIP BLANK1	1507060-07	07/28/15 19:03	25.0	25.0
MW-4	1507060-10	07/28/15 19:03	25.0	25.0
VBLKSR	5072809-BLK1	07/28/15 19:03	25.0	25.0
VLCSSR	5072809-BS1	07/28/15 19:03	25.0	25.0
VLCSDSR	5072809-BSD1	07/28/15 19:03	25.0	25.0

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PREPARATION BATCH SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072902 Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-5	1507060-08	07/29/15 19:14	25.0	25.0
MW-14	1507060-09	07/29/15 19:14	25.0	25.0
MW-11	1507060-12	07/29/15 19:14	25.0	25.0
MW-9	1507060-13	07/29/15 19:14	25.0	25.0
MW-20	1507060-14	07/29/15 19:14	25.0	25.0
VBLKSS	5072902-BLK1	07/29/15 19:14	25.0	25.0
VLCSSS	5072902-BS1	07/29/15 19:14	25.0	25.0
VLCSDSS	5072902-BSD1	07/29/15 19:14	25.0	25.0

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PREPARATION BATCH SUMMARY

SW 8260B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5073005 Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-2DL	1507060-02RE1	07/30/15 12:48	25.0	25.0
MW-3	1507060-03	07/30/15 12:48	25.0	25.0
MW-8	1507060-04	07/30/15 12:48	25.0	25.0
MW-18	1507060-05	07/30/15 12:48	25.0	25.0
DUP-1	1507060-06	07/30/15 12:48	25.0	25.0
MW-4DL	1507060-10RE1	07/30/15 12:48	25.0	25.0
MW-19	1507060-11	07/30/15 12:48	25.0	25.0
MW-17	1507060-15	07/30/15 12:48	25.0	25.0
MW-15	1507060-16	07/30/15 12:48	25.0	25.0
MW-16	1507060-17	07/30/15 12:48	25.0	25.0
IW-2A	1507060-18	07/30/15 12:48	25.0	25.0
IW-42B	1507060-19	07/30/15 12:48	25.0	25.0
TRIP BLANK2	1507060-20	07/30/15 12:48	25.0	25.0
MW-13	1507060-21	07/30/15 12:48	25.0	25.0
MW-7	1507060-22	07/30/15 12:48	25.0	25.0
IDW-1	1507060-23	07/30/15 12:48	25.0	25.0
TB-3	1507060-24	07/30/15 12:48	25.0	25.0
VBLKST	5073005-BLK1	07/30/15 12:48	25.0	25.0
VLCSST	5073005-BS1	07/30/15 12:48	25.0	25.0
VLCSDST	5073005-BSD1	07/30/15 12:48	25.0	25.0

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ANALYSIS DATA SHEET

SW 8260B

DUP-1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0691.d Sampled: 07/21/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-06 Received: 07/22/15 08:02

Dilution: 100 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 22:30

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		2.0	50	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		5.0	50	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	50	200000	*U*
79-00-5	1,1,2-Trichloroethane		4.0	50		*U*
75-34-3	1,1-Dichloroethane		2.0	50	6	*U*
75-35-4	1,1-Dichloroethene	200	4.0	50	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		6.0	50	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		25	50	0.04	*U*
106-93-4	1,2-Dibromoethane		4.0	50	0.02	*U*
95-50-1	1,2-Dichlorobenzene		3.0	50	20	*U*
107-06-2	1,2-Dichloroethane		3.0	50	0.4	*U*
78-87-5	1,2-Dichloropropane		12	50	0.6	*U*
541-73-1	1,3-Dichlorobenzene		4.0	50	200	*U*
106-46-7	1,4-Dichlorobenzene		3.0	50	6	*U*
78-93-3	2-Butanone	240	28	250	4000	*JD*
591-78-6	2-Hexanone		51	250		*U*
108-10-1	4-Methyl-2-pentanone		42	250		*U*
67-64-1	Acetone		44	250		*U*
71-43-2	Benzene		3.0	50	1	*U*
75-27-4	Bromodichloromethane		3.0	50	0.6	*U*
75-25-2	Bromoform		3.0	50	4	*U*
74-83-9	Bromomethane		11	50		*U*
75-15-0	Carbon disulfide		2.0	50	700	*U*
56-23-5	Carbon tetrachloride		3.0	50	0.3	*U*
108-90-7	Chlorobenzene		2.0	50	50	*U*
75-00-3	Chloroethane		20	50	3000	*U*
67-66-3	Chloroform		3.0	50	70	*U*
74-87-3	Chloromethane		11	50	3	*U*
156-59-2	cis-1,2-Dichloroethene	2900	3.0	50	70	*D*
10061-01-5	cis-1,3-Dichloropropene		4.0	50	0.4	*U*
110-82-7	Cyclohexane		2.0	50		*U*
124-48-1	Dibromochloromethane		4.0	50	0.4	*U*
75-71-8	Dichlorodifluoromethane		3.0	50	1000	*U*
100-41-4	Ethylbenzene		4.0	50	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

DUP-1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0691.d Sampled: 07/21/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-06 Received: 07/22/15 08:02

Dilution: 100 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 22:30

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		5.0	50	70	*U*
179601-23-1	m,p-Xylene		8.0	100		*U*
79-20-9	Methyl acetate		14	50		*U*
1634-04-4	Methyl tert-butyl ether		3.0	50	20	*U*
108-87-2	Methylcyclohexane		3.0	50		*U*
75-09-2	Methylene chloride	6.9	2.0	50		*JBD*
95-47-6	o-Xylene		3.0	50		*U*
100-42-5	Styrene		2.0	50	70	*U*
127-18-4	Tetrachloroethene		6.0	50	0.7	*U*
108-88-3	Toluene	4.5	3.0	50	600	*JD*
156-60-5	trans-1,2-Dichloroethene		5.0	50	100	*U*
10061-02-6	trans-1,3-Dichloropropene		5.0	50		*U*
79-01-6	Trichloroethene	7.2	3.0	50	3	*JD*
75-69-4	Trichlorofluoromethane		6.0	50	2000	*U*
75-01-4	Vinyl chloride	61	7.0	50	0.03	*D*
1330-20-7	Xylenes (total)		3.0	50	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	6.104	122	65 - 150	
1,2-Dichloroethane-d4	5.000	6.429	129	59 - 150	
Toluene-d8	5.000	5.308	106	61 - 145	
Bromofluorobenzene	5.000	4.816	96	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

IDW-1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2391.d Sampled: 07/23/15 10:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-23 Received: 07/23/15 16:30

Dilution: 50 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 17:11

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	470	1.0	25	200	*D*
79-34-5	1,1,2,2-Tetrachloroethane		2.5	25	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	480	2.5	25	200000	*D*
79-00-5	1,1,2-Trichloroethane		2.0	25		*U*
75-34-3	1,1-Dichloroethane		1.0	25	6	*U*
75-35-4	1,1-Dichloroethene	240	2.0	25	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		3.0	25	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		13	25	0.04	*U*
106-93-4	1,2-Dibromoethane		2.0	25	0.02	*U*
95-50-1	1,2-Dichlorobenzene		1.5	25	20	*U*
107-06-2	1,2-Dichloroethane		1.5	25	0.4	*U*
78-87-5	1,2-Dichloropropane		6.0	25	0.6	*U*
541-73-1	1,3-Dichlorobenzene		2.0	25	200	*U*
106-46-7	1,4-Dichlorobenzene		1.5	25	6	*U*
78-93-3	2-Butanone		14	130	4000	*U*
591-78-6	2-Hexanone		26	130		*U*
108-10-1	4-Methyl-2-pentanone		21	130		*U*
67-64-1	Acetone	69	22	130		*JD*
71-43-2	Benzene		1.5	25	1	*U*
75-27-4	Bromodichloromethane		1.5	25	0.6	*U*
75-25-2	Bromoform		1.5	25	4	*U*
74-83-9	Bromomethane		5.5	25		*U*
75-15-0	Carbon disulfide		1.0	25	700	*U*
56-23-5	Carbon tetrachloride		1.5	25	0.3	*U*
108-90-7	Chlorobenzene		1.0	25	50	*U*
75-00-3	Chloroethane		10	25	3000	*U*
67-66-3	Chloroform		1.5	25	70	*U*
74-87-3	Chloromethane		5.5	25	3	*U*
156-59-2	cis-1,2-Dichloroethene	210	1.5	25	70	*D*
10061-01-5	cis-1,3-Dichloropropene		2.0	25	0.4	*U*
110-82-7	Cyclohexane		1.0	25		*U*
124-48-1	Dibromochloromethane		2.0	25	0.4	*U*
75-71-8	Dichlorodifluoromethane		1.5	25	1000	*U*
100-41-4	Ethylbenzene	2.8	2.0	25	600	*JD*

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ANALYSIS DATA SHEET

SW 8260B

IDW-1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2391.d Sampled: 07/23/15 10:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-23 Received: 07/23/15 16:30

Dilution: 50 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 17:11

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		2.5	25	70	*U*
179601-23-1	m,p-Xylene	7.8	4.0	50		*JD*
79-20-9	Methyl acetate		7.0	25		*U*
1634-04-4	Methyl tert-butyl ether		1.5	25	20	*U*
108-87-2	Methylcyclohexane		1.5	25		*U*
75-09-2	Methylene chloride		1.0	25		*U*
95-47-6	o-Xylene	1.7	1.5	25		*JD*
100-42-5	Styrene		1.0	25	70	*U*
127-18-4	Tetrachloroethene	1400	3.0	25	0.7	*D*
108-88-3	Toluene	3.8	1.5	25	600	*JD*
156-60-5	trans-1,2-Dichloroethene		2.5	25	100	*U*
10061-02-6	trans-1,3-Dichloropropene		2.5	25		*U*
79-01-6	Trichloroethene	270	1.5	25	3	*D*
75-69-4	Trichlorofluoromethane	12	3.0	25	2000	*JD*
75-01-4	Vinyl chloride	5.6	3.5	25	0.03	*JD*
1330-20-7	Xylenes (total)	9.5	1.5	25	500	*JD*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.828	117	65 - 150	
1,2-Dichloroethane-d4	5.000	6.038	121	59 - 150	
Toluene-d8	5.000	5.108	102	61 - 145	
Bromofluorobenzene	5.000	5.015	100	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

IW-2A

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1891.d Sampled: 07/22/15 10:40

Initial/Final: 25mL / 25mL Lab ID: 1507060-18 Received: 07/23/15 08:11

Dilution: 20 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 20:19

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.40	10	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		1.0	10	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		1.0	10	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.80	10		*U*
75-34-3	1,1-Dichloroethane		0.40	10	6	*U*
75-35-4	1,1-Dichloroethene	8.9	0.80	10	3501	*JD*
120-82-1	1,2,4-Trichlorobenzene		1.2	10	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		5.0	10	0.04	*U*
106-93-4	1,2-Dibromoethane		0.80	10	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.60	10	20	*U*
107-06-2	1,2-Dichloroethane		0.60	10	0.4	*U*
78-87-5	1,2-Dichloropropane		2.4	10	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.80	10	200	*U*
106-46-7	1,4-Dichlorobenzene		0.60	10	6	*U*
78-93-3	2-Butanone	530	5.6	50	4000	*D*
591-78-6	2-Hexanone		10	50		*U*
108-10-1	4-Methyl-2-pentanone		8.4	50		*U*
67-64-1	Acetone	460	8.8	50		*D*
71-43-2	Benzene		0.60	10	1	*U*
75-27-4	Bromodichloromethane		0.60	10	0.6	*U*
75-25-2	Bromoform		0.60	10	4	*U*
74-83-9	Bromomethane		2.2	10		*U*
75-15-0	Carbon disulfide		0.40	10	700	*U*
56-23-5	Carbon tetrachloride		0.60	10	0.3	*U*
108-90-7	Chlorobenzene		0.40	10	50	*U*
75-00-3	Chloroethane		4.0	10	3000	*U*
67-66-3	Chloroform		0.60	10	70	*U*
74-87-3	Chloromethane		2.2	10	3	*U*
156-59-2	cis-1,2-Dichloroethene	24	0.60	10	70	*D*
10061-01-5	cis-1,3-Dichloropropene		0.80	10	0.4	*U*
110-82-7	Cyclohexane		0.40	10		*U*
124-48-1	Dibromochloromethane		0.80	10	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.60	10	1000	*U*
100-41-4	Ethylbenzene		0.80	10	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

IW-2A

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1891.d Sampled: 07/22/15 10:40

Initial/Final: 25mL / 25mL Lab ID: 1507060-18 Received: 07/23/15 08:11

Dilution: 20 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 20:19

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		1.0	10	70	*U*
179601-23-1	m,p-Xylene		1.6	20		*U*
79-20-9	Methyl acetate		2.8	10		*U*
1634-04-4	Methyl tert-butyl ether		0.60	10	20	*U*
108-87-2	Methylcyclohexane		0.60	10		*U*
75-09-2	Methylene chloride	3.1	0.40	10		*JBD*
95-47-6	o-Xylene		0.60	10		*U*
100-42-5	Styrene		0.40	10	70	*U*
127-18-4	Tetrachloroethene		1.2	10	0.7	*U*
108-88-3	Toluene		0.60	10	600	*U*
156-60-5	trans-1,2-Dichloroethene		1.0	10	100	*U*
10061-02-6	trans-1,3-Dichloropropene		1.0	10		*U*
79-01-6	Trichloroethene		0.60	10	3	*U*
75-69-4	Trichlorofluoromethane		1.2	10	2000	*U*
75-01-4	Vinyl chloride	34	1.4	10	0.03	*D*
1330-20-7	Xylenes (total)		0.60	10	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	6.097	122	65 - 150	
1,2-Dichloroethane-d4	5.000	6.350	127	59 - 150	
Toluene-d8	5.000	5.151	103	61 - 145	
Bromofluorobenzene	5.000	5.150	103	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

IW-42B

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1991.d Sampled: 07/22/15 14:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-19 Received: 07/23/15 08:11

Dilution: 3.13 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 15:05

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	0.22	0.063	1.6	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		0.16	1.6	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.16	1.6	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.13	1.6		*U*
75-34-3	1,1-Dichloroethane	2.1	0.063	1.6	6	*D*
75-35-4	1,1-Dichloroethene	6.6	0.13	1.6	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		0.19	1.6	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		0.78	1.6	0.04	*U*
106-93-4	1,2-Dibromoethane		0.13	1.6	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.094	1.6	20	*U*
107-06-2	1,2-Dichloroethane		0.094	1.6	0.4	*U*
78-87-5	1,2-Dichloropropane		0.38	1.6	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.13	1.6	200	*U*
106-46-7	1,4-Dichlorobenzene		0.094	1.6	6	*U*
78-93-3	2-Butanone	100	0.88	7.8	4000	*D*
591-78-6	2-Hexanone		1.6	7.8		*U*
108-10-1	4-Methyl-2-pentanone	4.7	1.3	7.8		*JD*
67-64-1	Acetone	60	1.4	7.8		*D*
71-43-2	Benzene		0.094	1.6	1	*U*
75-27-4	Bromodichloromethane		0.094	1.6	0.6	*U*
75-25-2	Bromoform		0.094	1.6	4	*U*
74-83-9	Bromomethane		0.34	1.6		*U*
75-15-0	Carbon disulfide	1.1	0.063	1.6	700	*JD*
56-23-5	Carbon tetrachloride		0.094	1.6	0.3	*U*
108-90-7	Chlorobenzene		0.063	1.6	50	*U*
75-00-3	Chloroethane	3.9	0.63	1.6	3000	*D*
67-66-3	Chloroform		0.094	1.6	70	*U*
74-87-3	Chloromethane	0.41	0.34	1.6	3	*JD*
156-59-2	cis-1,2-Dichloroethene	120	0.094	1.6	70	*D*
10061-01-5	cis-1,3-Dichloropropene		0.13	1.6	0.4	*U*
110-82-7	Cyclohexane		0.063	1.6		*U*
124-48-1	Dibromochloromethane		0.13	1.6	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.094	1.6	1000	*U*
100-41-4	Ethylbenzene		0.13	1.6	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

IW-42B

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1991.d Sampled: 07/22/15 14:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-19 Received: 07/23/15 08:11

Dilution: 3.13 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 15:05

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.16	1.6	70	*U*
179601-23-1	m,p-Xylene		0.25	3.1		*U*
79-20-9	Methyl acetate		0.44	1.6		*U*
1634-04-4	Methyl tert-butyl ether		0.094	1.6	20	*U*
108-87-2	Methylcyclohexane		0.094	1.6		*U*
75-09-2	Methylene chloride	1.5	0.063	1.6		*JBD*
95-47-6	o-Xylene		0.094	1.6		*U*
100-42-5	Styrene		0.063	1.6	70	*U*
127-18-4	Tetrachloroethene	0.48	0.19	1.6	0.7	*JD*
108-88-3	Toluene	0.35	0.094	1.6	600	*JD*
156-60-5	trans-1,2-Dichloroethene	0.52	0.16	1.6	100	*JD*
10061-02-6	trans-1,3-Dichloropropene		0.16	1.6		*U*
79-01-6	Trichloroethene	4.2	0.094	1.6	3	*D*
75-69-4	Trichlorofluoromethane		0.19	1.6	2000	*U*
75-01-4	Vinyl chloride	51	0.22	1.6	0.03	*D*
1330-20-7	Xylenes (total)		0.094	1.6	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.555	111	65 - 150	
1,2-Dichloroethane-d4	5.000	5.893	118	59 - 150	
Toluene-d8	5.000	5.376	108	61 - 145	
Bromofluorobenzene	5.000	5.175	104	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0191.d Sampled: 07/21/15 12:35

Initial/Final: 25mL / 25mL Lab ID: 1507060-01 Received: 07/22/15 08:02

Dilution: 50 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 01:46

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	12	1.0	25	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		2.5	25	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	260	2.5	25	200000	*D*
79-00-5	1,1,2-Trichloroethane		2.0	25		*U*
75-34-3	1,1-Dichloroethane	4.5	1.0	25	6	*JD*
75-35-4	1,1-Dichloroethene	90	2.0	25	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		3.0	25	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		13	25	0.04	*U*
106-93-4	1,2-Dibromoethane		2.0	25	0.02	*U*
95-50-1	1,2-Dichlorobenzene		1.5	25	20	*U*
107-06-2	1,2-Dichloroethane		1.5	25	0.4	*U*
78-87-5	1,2-Dichloropropane		6.0	25	0.6	*U*
541-73-1	1,3-Dichlorobenzene		2.0	25	200	*U*
106-46-7	1,4-Dichlorobenzene		1.5	25	6	*U*
78-93-3	2-Butanone		14	130	4000	*U*
591-78-6	2-Hexanone		26	130		*U*
108-10-1	4-Methyl-2-pentanone		21	130		*U*
67-64-1	Acetone		22	130		*U*
71-43-2	Benzene		1.5	25	1	*U*
75-27-4	Bromodichloromethane		1.5	25	0.6	*U*
75-25-2	Bromoform		1.5	25	4	*U*
74-83-9	Bromomethane		5.5	25		*U*
75-15-0	Carbon disulfide		1.0	25	700	*U*
56-23-5	Carbon tetrachloride		1.5	25	0.3	*U*
108-90-7	Chlorobenzene		1.0	25	50	*U*
75-00-3	Chloroethane		10	25	3000	*U*
67-66-3	Chloroform		1.5	25	70	*U*
74-87-3	Chloromethane		5.5	25	3	*U*
156-59-2	cis-1,2-Dichloroethene	24	1.5	25	70	*JD*
10061-01-5	cis-1,3-Dichloropropene		2.0	25	0.4	*U*
110-82-7	Cyclohexane		1.0	25		*U*
124-48-1	Dibromochloromethane		2.0	25	0.4	*U*
75-71-8	Dichlorodifluoromethane		1.5	25	1000	*U*
100-41-4	Ethylbenzene		2.0	25	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

MW-1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0191.d Sampled: 07/21/15 12:35

Initial/Final: 25mL / 25mL Lab ID: 1507060-01 Received: 07/22/15 08:02

Dilution: 50 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 01:46

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		2.5	25	70	*U*
179601-23-1	m,p-Xylene		4.0	50		*U*
79-20-9	Methyl acetate		7.0	25		*U*
1634-04-4	Methyl tert-butyl ether		1.5	25	20	*U*
108-87-2	Methylcyclohexane		1.5	25		*U*
75-09-2	Methylene chloride		1.0	25		*U*
95-47-6	o-Xylene		1.5	25		*U*
100-42-5	Styrene		1.0	25	70	*U*
127-18-4	Tetrachloroethene	1500	3.0	25	0.7	*D*
108-88-3	Toluene		1.5	25	600	*U*
156-60-5	trans-1,2-Dichloroethene		2.5	25	100	*U*
10061-02-6	trans-1,3-Dichloropropene		2.5	25		*U*
79-01-6	Trichloroethene	59	1.5	25	3	*D*
75-69-4	Trichlorofluoromethane	14	3.0	25	2000	*JD*
75-01-4	Vinyl chloride		3.5	25	0.03	*U*
1330-20-7	Xylenes (total)		1.5	25	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.560	111	65 - 150	
1,2-Dichloroethane-d4	5.000	5.844	117	59 - 150	
Toluene-d8	5.000	4.844	97	61 - 145	
Bromofluorobenzene	5.000	4.578	92	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-11

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1291.d Sampled: 07/22/15 13:20

Initial/Final: 25mL / 25mL Lab ID: 1507060-12 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 22:23

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50		*U*
75-34-3	1,1-Dichloroethane		0.020	0.50	6	*U*
75-35-4	1,1-Dichloroethene		0.040	0.50	3501	*U*
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	0.04	*U*
106-93-4	1,2-Dibromoethane		0.040	0.50	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.030	0.50	20	*U*
107-06-2	1,2-Dichloroethane		0.030	0.50	0.4	*U*
78-87-5	1,2-Dichloropropane		0.12	0.50	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.040	0.50	200	*U*
106-46-7	1,4-Dichlorobenzene		0.030	0.50	6	*U*
78-93-3	2-Butanone	11	0.28	2.5	4000	
591-78-6	2-Hexanone		0.51	2.5		*U*
108-10-1	4-Methyl-2-pentanone		0.42	2.5		*U*
67-64-1	Acetone	25	0.44	2.5		
71-43-2	Benzene		0.030	0.50	1	*U*
75-27-4	Bromodichloromethane		0.030	0.50	0.6	*U*
75-25-2	Bromoform		0.030	0.50	4	*U*
74-83-9	Bromomethane		0.11	0.50		*U*
75-15-0	Carbon disulfide	0.080	0.020	0.50	700	*J*
56-23-5	Carbon tetrachloride		0.030	0.50	0.3	*U*
108-90-7	Chlorobenzene		0.020	0.50	50	*U*
75-00-3	Chloroethane		0.20	0.50	3000	*U*
67-66-3	Chloroform		0.030	0.50	70	*U*
74-87-3	Chloromethane	0.12	0.11	0.50	3	*J*
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	70	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	0.4	*U*
110-82-7	Cyclohexane		0.020	0.50		*U*
124-48-1	Dibromochloromethane		0.040	0.50	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.030	0.50	1000	*U*
100-41-4	Ethylbenzene		0.040	0.50	600	*U*

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SW 8260B

MW-11

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1291.d Sampled: 07/22/15 13:20

Initial/Final: 25mL / 25mL Lab ID: 1507060-12 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 22:23

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.050	0.50	70	*U*
179601-23-1	m,p-Xylene		0.080	1.0		*U*
79-20-9	Methyl acetate		0.14	0.50		*U*
1634-04-4	Methyl tert-butyl ether		0.030	0.50	20	*U*
108-87-2	Methylcyclohexane		0.030	0.50		*U*
75-09-2	Methylene chloride		0.020	0.50		*U*
95-47-6	o-Xylene		0.030	0.50		*U*
100-42-5	Styrene		0.020	0.50	70	*U*
127-18-4	Tetrachloroethene	0.19	0.060	0.50	0.7	*J*
108-88-3	Toluene	0.041	0.030	0.50	600	*J*
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50		*U*
79-01-6	Trichloroethene		0.030	0.50	3	*U*
75-69-4	Trichlorofluoromethane		0.060	0.50	2000	*U*
75-01-4	Vinyl chloride		0.070	0.50	0.03	*U*
1330-20-7	Xylenes (total)		0.030	0.50	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.740	115	65 - 150	
1,2-Dichloroethane-d4	5.000	5.960	119	59 - 150	
Toluene-d8	5.000	5.548	111	61 - 145	
Bromofluorobenzene	5.000	5.067	101	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-13

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2191.d Sampled: 07/23/15 10:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-21 Received: 07/23/15 16:30

Dilution: 2 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 16:08

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	1.3	0.040	1.0	200	*D*
79-34-5	1,1,2,2-Tetrachloroethane		0.10	1.0	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	0.10	1.0	200000	*D*
79-00-5	1,1,2-Trichloroethane		0.080	1.0		*U*
75-34-3	1,1-Dichloroethane	0.40	0.040	1.0	6	*JD*
75-35-4	1,1-Dichloroethene	40	0.080	1.0	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		0.12	1.0	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		0.50	1.0	0.04	*U*
106-93-4	1,2-Dibromoethane		0.080	1.0	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.060	1.0	20	*U*
107-06-2	1,2-Dichloroethane		0.060	1.0	0.4	*U*
78-87-5	1,2-Dichloropropane		0.24	1.0	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.080	1.0	200	*U*
106-46-7	1,4-Dichlorobenzene		0.060	1.0	6	*U*
78-93-3	2-Butanone		0.56	5.0	4000	*U*
591-78-6	2-Hexanone		1.0	5.0		*U*
108-10-1	4-Methyl-2-pentanone		0.84	5.0		*U*
67-64-1	Acetone		0.88	5.0		*U*
71-43-2	Benzene		0.060	1.0	1	*U*
75-27-4	Bromodichloromethane		0.060	1.0	0.6	*U*
75-25-2	Bromoform		0.060	1.0	4	*U*
74-83-9	Bromomethane		0.22	1.0		*U*
75-15-0	Carbon disulfide		0.040	1.0	700	*U*
56-23-5	Carbon tetrachloride	0.12	0.060	1.0	0.3	*JD*
108-90-7	Chlorobenzene		0.040	1.0	50	*U*
75-00-3	Chloroethane		0.40	1.0	3000	*U*
67-66-3	Chloroform	0.088	0.060	1.0	70	*JD*
74-87-3	Chloromethane	0.25	0.22	1.0	3	*JD*
156-59-2	cis-1,2-Dichloroethene	0.33	0.060	1.0	70	*JD*
10061-01-5	cis-1,3-Dichloropropene		0.080	1.0	0.4	*U*
110-82-7	Cyclohexane		0.040	1.0		*U*
124-48-1	Dibromochloromethane		0.080	1.0	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.060	1.0	1000	*U*
100-41-4	Ethylbenzene		0.080	1.0	600	*U*

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SW 8260B

MW-13

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2191.d Sampled: 07/23/15 10:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-21 Received: 07/23/15 16:30

Dilution: 2 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 16:08

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.10	1.0	70	*U*
179601-23-1	m,p-Xylene		0.16	2.0		*U*
79-20-9	Methyl acetate		0.28	1.0		*U*
1634-04-4	Methyl tert-butyl ether		0.060	1.0	20	*U*
108-87-2	Methylcyclohexane		0.060	1.0		*U*
75-09-2	Methylene chloride		0.040	1.0		*U*
95-47-6	o-Xylene		0.060	1.0		*U*
100-42-5	Styrene		0.040	1.0	70	*U*
127-18-4	Tetrachloroethene	65	0.12	1.0	0.7	*D*
108-88-3	Toluene		0.060	1.0	600	*U*
156-60-5	trans-1,2-Dichloroethene		0.10	1.0	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.10	1.0		*U*
79-01-6	Trichloroethene	22	0.060	1.0	3	*D*
75-69-4	Trichlorofluoromethane	1.3	0.12	1.0	2000	*D*
75-01-4	Vinyl chloride		0.14	1.0	0.03	*U*
1330-20-7	Xylenes (total)		0.060	1.0	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.856	117	65 - 150	
1,2-Dichloroethane-d4	5.000	6.094	122	59 - 150	
Toluene-d8	5.000	5.077	102	61 - 145	
Bromofluorobenzene	5.000	5.069	101	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-14

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-09R91.d Sampled: 07/22/15 09:25

Initial/Final: 25mL / 25mL Lab ID: 1507060-09 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 21:51

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50		*U*
75-34-3	1,1-Dichloroethane		0.020	0.50	6	*U*
75-35-4	1,1-Dichloroethene		0.040	0.50	3501	*U*
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	0.04	*U*
106-93-4	1,2-Dibromoethane		0.040	0.50	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.030	0.50	20	*U*
107-06-2	1,2-Dichloroethane		0.030	0.50	0.4	*U*
78-87-5	1,2-Dichloropropane		0.12	0.50	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.040	0.50	200	*U*
106-46-7	1,4-Dichlorobenzene		0.030	0.50	6	*U*
78-93-3	2-Butanone		0.28	2.5	4000	*U*
591-78-6	2-Hexanone		0.51	2.5		*U*
108-10-1	4-Methyl-2-pentanone		0.42	2.5		*U*
67-64-1	Acetone	7.0	0.44	2.5		
71-43-2	Benzene		0.030	0.50	1	*U*
75-27-4	Bromodichloromethane		0.030	0.50	0.6	*U*
75-25-2	Bromoform		0.030	0.50	4	*U*
74-83-9	Bromomethane		0.11	0.50		*U*
75-15-0	Carbon disulfide	2.2	0.020	0.50	700	
56-23-5	Carbon tetrachloride		0.030	0.50	0.3	*U*
108-90-7	Chlorobenzene		0.020	0.50	50	*U*
75-00-3	Chloroethane		0.20	0.50	3000	*U*
67-66-3	Chloroform		0.030	0.50	70	*U*
74-87-3	Chloromethane	0.35	0.11	0.50	3	*J*
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	70	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	0.4	*U*
110-82-7	Cyclohexane		0.020	0.50		*U*
124-48-1	Dibromochloromethane		0.040	0.50	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.030	0.50	1000	*U*
100-41-4	Ethylbenzene		0.040	0.50	600	*U*

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SW 8260B

MW-14

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-09R91.d Sampled: 07/22/15 09:25

Initial/Final: 25mL / 25mL Lab ID: 1507060-09 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 21:51

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.050	0.50	70	*U*
179601-23-1	m,p-Xylene		0.080	1.0		*U*
79-20-9	Methyl acetate		0.14	0.50		*U*
1634-04-4	Methyl tert-butyl ether	0.075	0.030	0.50	20	*J*
108-87-2	Methylcyclohexane		0.030	0.50		*U*
75-09-2	Methylene chloride	0.036	0.020	0.50		*J*
95-47-6	o-Xylene		0.030	0.50		*U*
100-42-5	Styrene		0.020	0.50	70	*U*
127-18-4	Tetrachloroethene	0.061	0.060	0.50	0.7	*J*
108-88-3	Toluene	0.082	0.030	0.50	600	*J*
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50		*U*
79-01-6	Trichloroethene		0.030	0.50	3	*U*
75-69-4	Trichlorofluoromethane		0.060	0.50	2000	*U*
75-01-4	Vinyl chloride		0.070	0.50	0.03	*U*
1330-20-7	Xylenes (total)		0.030	0.50	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.806	116	65 - 150	
1,2-Dichloroethane-d4	5.000	5.995	120	59 - 150	
Toluene-d8	5.000	5.371	107	61 - 145	
Bromofluorobenzene	5.000	4.795	96	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-15

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1691.d Sampled: 07/22/15 15:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-16 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 14:34

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50		*U*
75-34-3	1,1-Dichloroethane		0.020	0.50	6	*U*
75-35-4	1,1-Dichloroethene		0.040	0.50	3501	*U*
120-82-1	1,2,4-Trichlorobenzene	0.13	0.060	0.50	70	*J*
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	0.04	*U*
106-93-4	1,2-Dibromoethane		0.040	0.50	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.030	0.50	20	*U*
107-06-2	1,2-Dichloroethane		0.030	0.50	0.4	*U*
78-87-5	1,2-Dichloropropane		0.12	0.50	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.040	0.50	200	*U*
106-46-7	1,4-Dichlorobenzene		0.030	0.50	6	*U*
78-93-3	2-Butanone		0.28	2.5	4000	*U*
591-78-6	2-Hexanone		0.51	2.5		*U*
108-10-1	4-Methyl-2-pentanone		0.42	2.5		*U*
67-64-1	Acetone		0.44	2.5		*U*
71-43-2	Benzene		0.030	0.50	1	*U*
75-27-4	Bromodichloromethane		0.030	0.50	0.6	*U*
75-25-2	Bromoform		0.030	0.50	4	*U*
74-83-9	Bromomethane		0.11	0.50		*U*
75-15-0	Carbon disulfide	0.048	0.020	0.50	700	*J*
56-23-5	Carbon tetrachloride		0.030	0.50	0.3	*U*
108-90-7	Chlorobenzene		0.020	0.50	50	*U*
75-00-3	Chloroethane		0.20	0.50	3000	*U*
67-66-3	Chloroform		0.030	0.50	70	*U*
74-87-3	Chloromethane		0.11	0.50	3	*U*
156-59-2	cis-1,2-Dichloroethene	0.039	0.030	0.50	70	*J*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	0.4	*U*
110-82-7	Cyclohexane		0.020	0.50		*U*
124-48-1	Dibromochloromethane		0.040	0.50	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.030	0.50	1000	*U*
100-41-4	Ethylbenzene		0.040	0.50	600	*U*

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SW 8260B

MW-15

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1691.d Sampled: 07/22/15 15:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-16 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 14:34

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.050	0.50	70	*U*
179601-23-1	m,p-Xylene		0.080	1.0		*U*
79-20-9	Methyl acetate		0.14	0.50		*U*
1634-04-4	Methyl tert-butyl ether		0.030	0.50	20	*U*
108-87-2	Methylcyclohexane		0.030	0.50		*U*
75-09-2	Methylene chloride	0.053	0.020	0.50		*JB*
95-47-6	o-Xylene		0.030	0.50		*U*
100-42-5	Styrene		0.020	0.50	70	*U*
127-18-4	Tetrachloroethene	0.11	0.060	0.50	0.7	*J*
108-88-3	Toluene	0.041	0.030	0.50	600	*J*
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50		*U*
79-01-6	Trichloroethene		0.030	0.50	3	*U*
75-69-4	Trichlorofluoromethane		0.060	0.50	2000	*U*
75-01-4	Vinyl chloride		0.070	0.50	0.03	*U*
1330-20-7	Xylenes (total)		0.030	0.50	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.728	115	65 - 150	
1,2-Dichloroethane-d4	5.000	5.944	119	59 - 150	
Toluene-d8	5.000	5.501	110	61 - 145	
Bromofluorobenzene	5.000	5.320	106	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-16

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1791.d Sampled: 07/22/15 12:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-17 Received: 07/23/15 08:11

Dilution: 125 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 19:17

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		2.5	63	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		6.3	63	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	110	6.3	63	200000	*D*
79-00-5	1,1,2-Trichloroethane		5.0	63		*U*
75-34-3	1,1-Dichloroethane	29	2.5	63	6	*JD*
75-35-4	1,1-Dichloroethene	520	5.0	63	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		7.5	63	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		31	63	0.04	*U*
106-93-4	1,2-Dibromoethane		5.0	63	0.02	*U*
95-50-1	1,2-Dichlorobenzene		3.8	63	20	*U*
107-06-2	1,2-Dichloroethane		3.8	63	0.4	*U*
78-87-5	1,2-Dichloropropane		15	63	0.6	*U*
541-73-1	1,3-Dichlorobenzene		5.0	63	200	*U*
106-46-7	1,4-Dichlorobenzene		3.8	63	6	*U*
78-93-3	2-Butanone	290	35	310	4000	*JD*
591-78-6	2-Hexanone		64	310		*U*
108-10-1	4-Methyl-2-pentanone		53	310		*U*
67-64-1	Acetone		55	310		*U*
71-43-2	Benzene		3.8	63	1	*U*
75-27-4	Bromodichloromethane		3.8	63	0.6	*U*
75-25-2	Bromoform		3.8	63	4	*U*
74-83-9	Bromomethane		14	63		*U*
75-15-0	Carbon disulfide		2.5	63	700	*U*
56-23-5	Carbon tetrachloride		3.8	63	0.3	*U*
108-90-7	Chlorobenzene		2.5	63	50	*U*
75-00-3	Chloroethane		25	63	3000	*U*
67-66-3	Chloroform		3.8	63	70	*U*
74-87-3	Chloromethane		14	63	3	*U*
156-59-2	cis-1,2-Dichloroethene	3200	3.8	63	70	*D*
10061-01-5	cis-1,3-Dichloropropene		5.0	63	0.4	*U*
110-82-7	Cyclohexane		2.5	63		*U*
124-48-1	Dibromochloromethane		5.0	63	0.4	*U*
75-71-8	Dichlorodifluoromethane		3.8	63	1000	*U*
100-41-4	Ethylbenzene		5.0	63	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

MW-16

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1791.d Sampled: 07/22/15 12:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-17 Received: 07/23/15 08:11

Dilution: 125 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 19:17

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		6.3	63	70	*U*
179601-23-1	m,p-Xylene		10	130		*U*
79-20-9	Methyl acetate		18	63		*U*
1634-04-4	Methyl tert-butyl ether		3.8	63	20	*U*
108-87-2	Methylcyclohexane		3.8	63		*U*
75-09-2	Methylene chloride	7.4	2.5	63		*JBD*
95-47-6	o-Xylene		3.8	63		*U*
100-42-5	Styrene		2.5	63	70	*U*
127-18-4	Tetrachloroethene		7.5	63	0.7	*U*
108-88-3	Toluene		3.8	63	600	*U*
156-60-5	trans-1,2-Dichloroethene	8.4	6.3	63	100	*JD*
10061-02-6	trans-1,3-Dichloropropene		6.3	63		*U*
79-01-6	Trichloroethene		3.8	63	3	*U*
75-69-4	Trichlorofluoromethane		7.5	63	2000	*U*
75-01-4	Vinyl chloride	21	8.8	63	0.03	*JD*
1330-20-7	Xylenes (total)		3.8	63	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.983	120	65 - 150	
1,2-Dichloroethane-d4	5.000	6.121	122	59 - 150	
Toluene-d8	5.000	5.448	109	61 - 145	
Bromofluorobenzene	5.000	4.971	99	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-17

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1591.d Sampled: 07/22/15 15:40

Initial/Final: 25mL / 25mL Lab ID: 1507060-15 Received: 07/23/15 08:11

Dilution: 125 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 18:45

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	13	2.5	63	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		6.3	63	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	160	6.3	63	200000	*D*
79-00-5	1,1,2-Trichloroethane		5.0	63		*U*
75-34-3	1,1-Dichloroethane	38	2.5	63	6	*JD*
75-35-4	1,1-Dichloroethene	320	5.0	63	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		7.5	63	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		31	63	0.04	*U*
106-93-4	1,2-Dibromoethane		5.0	63	0.02	*U*
95-50-1	1,2-Dichlorobenzene		3.8	63	20	*U*
107-06-2	1,2-Dichloroethane		3.8	63	0.4	*U*
78-87-5	1,2-Dichloropropane		15	63	0.6	*U*
541-73-1	1,3-Dichlorobenzene		5.0	63	200	*U*
106-46-7	1,4-Dichlorobenzene		3.8	63	6	*U*
78-93-3	2-Butanone		35	310	4000	*U*
591-78-6	2-Hexanone		64	310		*U*
108-10-1	4-Methyl-2-pentanone		53	310		*U*
67-64-1	Acetone		55	310		*U*
71-43-2	Benzene		3.8	63	1	*U*
75-27-4	Bromodichloromethane		3.8	63	0.6	*U*
75-25-2	Bromoform		3.8	63	4	*U*
74-83-9	Bromomethane		14	63		*U*
75-15-0	Carbon disulfide		2.5	63	700	*U*
56-23-5	Carbon tetrachloride		3.8	63	0.3	*U*
108-90-7	Chlorobenzene		2.5	63	50	*U*
75-00-3	Chloroethane		25	63	3000	*U*
67-66-3	Chloroform		3.8	63	70	*U*
74-87-3	Chloromethane		14	63	3	*U*
156-59-2	cis-1,2-Dichloroethene	3100	3.8	63	70	*D*
10061-01-5	cis-1,3-Dichloropropene		5.0	63	0.4	*U*
110-82-7	Cyclohexane		2.5	63		*U*
124-48-1	Dibromochloromethane		5.0	63	0.4	*U*
75-71-8	Dichlorodifluoromethane		3.8	63	1000	*U*
100-41-4	Ethylbenzene		5.0	63	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

MW-17

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1591.d Sampled: 07/22/15 15:40

Initial/Final: 25mL / 25mL Lab ID: 1507060-15 Received: 07/23/15 08:11

Dilution: 125 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 18:45

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		6.3	63	70	*U*
179601-23-1	m,p-Xylene		10	130		*U*
79-20-9	Methyl acetate		18	63		*U*
1634-04-4	Methyl tert-butyl ether		3.8	63	20	*U*
108-87-2	Methylcyclohexane		3.8	63		*U*
75-09-2	Methylene chloride	5.9	2.5	63		*JBD*
95-47-6	o-Xylene		3.8	63		*U*
100-42-5	Styrene		2.5	63	70	*U*
127-18-4	Tetrachloroethene		7.5	63	0.7	*U*
108-88-3	Toluene	4.0	3.8	63	600	*JD*
156-60-5	trans-1,2-Dichloroethene		6.3	63	100	*U*
10061-02-6	trans-1,3-Dichloropropene		6.3	63		*U*
79-01-6	Trichloroethene		3.8	63	3	*U*
75-69-4	Trichlorofluoromethane	14	7.5	63	2000	*JD*
75-01-4	Vinyl chloride	38	8.8	63	0.03	*JD*
1330-20-7	Xylenes (total)		3.8	63	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	6.020	120	65 - 150	
1,2-Dichloroethane-d4	5.000	6.163	123	59 - 150	
Toluene-d8	5.000	5.414	108	61 - 145	
Bromofluorobenzene	5.000	4.900	98	63 - 143	

DL2 - 15A NCAC 02L .0202

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SW 8260B

MW-18

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0591.d Sampled: 07/21/15 15:50

Initial/Final: 25mL / 25mL Lab ID: 1507060-05 Received: 07/22/15 08:02

Dilution: 3571.4 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 21:58

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	31000	71	1800	200	*D*
79-34-5	1,1,2,2-Tetrachloroethane		180	1800	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	46000	180	1800	200000	*D*
79-00-5	1,1,2-Trichloroethane		140	1800		*U*
75-34-3	1,1-Dichloroethane		71	1800	6	*U*
75-35-4	1,1-Dichloroethene	16000	140	1800	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		210	1800	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		890	1800	0.04	*U*
106-93-4	1,2-Dibromoethane		140	1800	0.02	*U*
95-50-1	1,2-Dichlorobenzene		110	1800	20	*U*
107-06-2	1,2-Dichloroethane		110	1800	0.4	*U*
78-87-5	1,2-Dichloropropane		430	1800	0.6	*U*
541-73-1	1,3-Dichlorobenzene		140	1800	200	*U*
106-46-7	1,4-Dichlorobenzene		110	1800	6	*U*
78-93-3	2-Butanone		1000	8900	4000	*U*
591-78-6	2-Hexanone		1800	8900		*U*
108-10-1	4-Methyl-2-pentanone		1500	8900		*U*
67-64-1	Acetone		1600	8900		*U*
71-43-2	Benzene		110	1800	1	*U*
75-27-4	Bromodichloromethane		110	1800	0.6	*U*
75-25-2	Bromoform		110	1800	4	*U*
74-83-9	Bromomethane		390	1800		*U*
75-15-0	Carbon disulfide		71	1800	700	*U*
56-23-5	Carbon tetrachloride		110	1800	0.3	*U*
108-90-7	Chlorobenzene		71	1800	50	*U*
75-00-3	Chloroethane		710	1800	3000	*U*
67-66-3	Chloroform		110	1800	70	*U*
74-87-3	Chloromethane		390	1800	3	*U*
156-59-2	cis-1,2-Dichloroethene		110	1800	70	*U*
10061-01-5	cis-1,3-Dichloropropene		140	1800	0.4	*U*
110-82-7	Cyclohexane		71	1800		*U*
124-48-1	Dibromochloromethane		140	1800	0.4	*U*
75-71-8	Dichlorodifluoromethane		110	1800	1000	*U*
100-41-4	Ethylbenzene	210	140	1800	600	*JD*

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ANALYSIS DATA SHEET

SW 8260B

MW-18

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0591.d Sampled: 07/21/15 15:50

Initial/Final: 25mL / 25mL Lab ID: 1507060-05 Received: 07/22/15 08:02

Dilution: 3571.4 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 21:58

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		180	1800	70	*U*
179601-23-1	m,p-Xylene	550	290	3600		*JD*
79-20-9	Methyl acetate		500	1800		*U*
1634-04-4	Methyl tert-butyl ether		110	1800	20	*U*
108-87-2	Methylcyclohexane		110	1800		*U*
75-09-2	Methylene chloride		71	1800		*U*
95-47-6	o-Xylene	120	110	1800		*JD*
100-42-5	Styrene		71	1800	70	*U*
127-18-4	Tetrachloroethene	120000	210	1800	0.7	*D*
108-88-3	Toluene	210	110	1800	600	*JD*
156-60-5	trans-1,2-Dichloroethene		180	1800	100	*U*
10061-02-6	trans-1,3-Dichloropropene		180	1800		*U*
79-01-6	Trichloroethene	18000	110	1800	3	*D*
75-69-4	Trichlorofluoromethane	1100	210	1800	2000	*JD*
75-01-4	Vinyl chloride		250	1800	0.03	*U*
1330-20-7	Xylenes (total)	670	110	1800	500	*JD*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.956	119	65 - 150	
1,2-Dichloroethane-d4	5.000	6.386	128	59 - 150	
Toluene-d8	5.000	5.093	102	61 - 145	
Bromofluorobenzene	5.000	4.896	98	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-19

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-11D91.d Sampled: 07/22/15 12:15

Initial/Final: 25mL / 25mL Lab ID: 1507060-11 Received: 07/23/15 08:11

Dilution: 5 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 23:02

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.10	2.5	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.25	2.5	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	0.25	2.5	200000	*D*
79-00-5	1,1,2-Trichloroethane		0.20	2.5		*U*
75-34-3	1,1-Dichloroethane	0.56	0.10	2.5	6	*JD*
75-35-4	1,1-Dichloroethene	3.7	0.20	2.5	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		0.30	2.5	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		1.3	2.5	0.04	*U*
106-93-4	1,2-Dibromoethane		0.20	2.5	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.15	2.5	20	*U*
107-06-2	1,2-Dichloroethane		0.15	2.5	0.4	*U*
78-87-5	1,2-Dichloropropane		0.60	2.5	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.20	2.5	200	*U*
106-46-7	1,4-Dichlorobenzene		0.15	2.5	6	*U*
78-93-3	2-Butanone		1.4	13	4000	*U*
591-78-6	2-Hexanone		2.6	13		*U*
108-10-1	4-Methyl-2-pentanone		2.1	13		*U*
67-64-1	Acetone	86	2.2	13		*D*
71-43-2	Benzene	1.6	0.15	2.5	1	*JD*
75-27-4	Bromodichloromethane		0.15	2.5	0.6	*U*
75-25-2	Bromoform		0.15	2.5	4	*U*
74-83-9	Bromomethane		0.55	2.5		*U*
75-15-0	Carbon disulfide	4.2	0.10	2.5	700	*D*
56-23-5	Carbon tetrachloride		0.15	2.5	0.3	*U*
108-90-7	Chlorobenzene		0.10	2.5	50	*U*
75-00-3	Chloroethane		1.0	2.5	3000	*U*
67-66-3	Chloroform		0.15	2.5	70	*U*
74-87-3	Chloromethane		0.55	2.5	3	*U*
156-59-2	cis-1,2-Dichloroethene	0.25	0.15	2.5	70	*JD*
10061-01-5	cis-1,3-Dichloropropene		0.20	2.5	0.4	*U*
110-82-7	Cyclohexane		0.10	2.5		*U*
124-48-1	Dibromochloromethane		0.20	2.5	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.15	2.5	1000	*U*
100-41-4	Ethylbenzene		0.20	2.5	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

MW-19

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-11D91.d Sampled: 07/22/15 12:15

Initial/Final: 25mL / 25mL Lab ID: 1507060-11 Received: 07/23/15 08:11

Dilution: 5 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 23:02

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.25	2.5	70	*U*
179601-23-1	m,p-Xylene		0.40	5.0		*U*
79-20-9	Methyl acetate		0.70	2.5		*U*
1634-04-4	Methyl tert-butyl ether		0.15	2.5	20	*U*
108-87-2	Methylcyclohexane		0.15	2.5		*U*
75-09-2	Methylene chloride	1.2	0.10	2.5		*JBD*
95-47-6	o-Xylene		0.15	2.5		*U*
100-42-5	Styrene		0.10	2.5	70	*U*
127-18-4	Tetrachloroethene	49	0.30	2.5	0.7	*D*
108-88-3	Toluene	0.53	0.15	2.5	600	*JD*
156-60-5	trans-1,2-Dichloroethene		0.25	2.5	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.25	2.5		*U*
79-01-6	Trichloroethene		0.15	2.5	3	*U*
75-69-4	Trichlorofluoromethane		0.30	2.5	2000	*U*
75-01-4	Vinyl chloride		0.35	2.5	0.03	*U*
1330-20-7	Xylenes (total)		0.15	2.5	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.994	120	65 - 150	
1,2-Dichloroethane-d4	5.000	6.256	125	59 - 150	
Toluene-d8	5.000	5.184	104	61 - 145	
Bromofluorobenzene	5.000	4.971	99	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-2

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0291.d Sampled: 07/21/15 15:15

Initial/Final: 25mL / 25mL Lab ID: 1507060-02 Received: 07/22/15 08:02

Dilution: 50 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 02:18

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		1.0	25	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		2.5	25	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.5	25	200000	*U*
79-00-5	1,1,2-Trichloroethane		2.0	25		*U*
75-34-3	1,1-Dichloroethane		1.0	25	6	*U*
75-35-4	1,1-Dichloroethene	230	2.0	25	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		3.0	25	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		13	25	0.04	*U*
106-93-4	1,2-Dibromoethane		2.0	25	0.02	*U*
95-50-1	1,2-Dichlorobenzene		1.5	25	20	*U*
107-06-2	1,2-Dichloroethane		1.5	25	0.4	*U*
78-87-5	1,2-Dichloropropane		6.0	25	0.6	*U*
541-73-1	1,3-Dichlorobenzene		2.0	25	200	*U*
106-46-7	1,4-Dichlorobenzene		1.5	25	6	*U*
78-93-3	2-Butanone	290	14	130	4000	*D*
591-78-6	2-Hexanone		26	130		*U*
108-10-1	4-Methyl-2-pentanone		21	130		*U*
67-64-1	Acetone		22	130		*U*
71-43-2	Benzene		1.5	25	1	*U*
75-27-4	Bromodichloromethane		1.5	25	0.6	*U*
75-25-2	Bromoform		1.5	25	4	*U*
74-83-9	Bromomethane		5.5	25		*U*
75-15-0	Carbon disulfide		1.0	25	700	*U*
56-23-5	Carbon tetrachloride		1.5	25	0.3	*U*
108-90-7	Chlorobenzene		1.0	25	50	*U*
75-00-3	Chloroethane		10	25	3000	*U*
67-66-3	Chloroform		1.5	25	70	*U*
74-87-3	Chloromethane		5.5	25	3	*U*
10061-01-5	cis-1,3-Dichloropropene		2.0	25	0.4	*U*
110-82-7	Cyclohexane		1.0	25		*U*
124-48-1	Dibromochloromethane		2.0	25	0.4	*U*
75-71-8	Dichlorodifluoromethane		1.5	25	1000	*U*
100-41-4	Ethylbenzene		2.0	25	600	*U*
98-82-8	Isopropylbenzene		2.5	25	70	*U*

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ANALYSIS DATA SHEET

SW 8260B

MW-2

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0291.d Sampled: 07/21/15 15:15

Initial/Final: 25mL / 25mL Lab ID: 1507060-02 Received: 07/22/15 08:02

Dilution: 50 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 02:18

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
179601-23-1	m,p-Xylene		4.0	50		*U*
79-20-9	Methyl acetate		7.0	25		*U*
1634-04-4	Methyl tert-butyl ether		1.5	25	20	*U*
108-87-2	Methylcyclohexane		1.5	25		*U*
75-09-2	Methylene chloride	2.2	1.0	25		*JD*
95-47-6	o-Xylene		1.5	25		*U*
100-42-5	Styrene		1.0	25	70	*U*
127-18-4	Tetrachloroethene	5.7	3.0	25	0.7	*JD*
108-88-3	Toluene		1.5	25	600	*U*
156-60-5	trans-1,2-Dichloroethene		2.5	25	100	*U*
10061-02-6	trans-1,3-Dichloropropene		2.5	25		*U*
79-01-6	Trichloroethene	12	1.5	25	3	*JD*
75-69-4	Trichlorofluoromethane		3.0	25	2000	*U*
75-01-4	Vinyl chloride	66	3.5	25	0.03	*D*
1330-20-7	Xylenes (total)		1.5	25	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.785	116	65 - 150	
1,2-Dichloroethane-d4	5.000	6.119	122	59 - 150	
Toluene-d8	5.000	5.297	106	61 - 145	
Bromofluorobenzene	5.000	4.705	94	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-20

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1491.d Sampled: 07/22/15 14:50

Initial/Final: 25mL / 25mL Lab ID: 1507060-14 Received: 07/23/15 08:11

Dilution: 25 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 23:26

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	11	0.50	13	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		1.3	13	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	110	1.3	13	200000	*D*
79-00-5	1,1,2-Trichloroethane		1.0	13		*U*
75-34-3	1,1-Dichloroethane	17	0.50	13	6	*D*
75-35-4	1,1-Dichloroethene	140	1.0	13	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		1.5	13	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		6.3	13	0.04	*U*
106-93-4	1,2-Dibromoethane		1.0	13	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.75	13	20	*U*
107-06-2	1,2-Dichloroethane		0.75	13	0.4	*U*
78-87-5	1,2-Dichloropropane		3.0	13	0.6	*U*
541-73-1	1,3-Dichlorobenzene		1.0	13	200	*U*
106-46-7	1,4-Dichlorobenzene		0.75	13	6	*U*
78-93-3	2-Butanone		7.0	63	4000	*U*
591-78-6	2-Hexanone		13	63		*U*
108-10-1	4-Methyl-2-pentanone		11	63		*U*
67-64-1	Acetone		11	63		*U*
71-43-2	Benzene		0.75	13	1	*U*
75-27-4	Bromodichloromethane		0.75	13	0.6	*U*
75-25-2	Bromoform		0.75	13	4	*U*
74-83-9	Bromomethane		2.8	13		*U*
75-15-0	Carbon disulfide		0.50	13	700	*U*
56-23-5	Carbon tetrachloride		0.75	13	0.3	*U*
108-90-7	Chlorobenzene		0.50	13	50	*U*
75-00-3	Chloroethane		5.0	13	3000	*U*
67-66-3	Chloroform		0.75	13	70	*U*
74-87-3	Chloromethane		2.8	13	3	*U*
156-59-2	cis-1,2-Dichloroethene	800	0.75	13	70	*D*
10061-01-5	cis-1,3-Dichloropropene		1.0	13	0.4	*U*
110-82-7	Cyclohexane		0.50	13		*U*
124-48-1	Dibromochloromethane		1.0	13	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.75	13	1000	*U*
100-41-4	Ethylbenzene		1.0	13	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

MW-20

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1491.d Sampled: 07/22/15 14:50

Initial/Final: 25mL / 25mL Lab ID: 1507060-14 Received: 07/23/15 08:11

Dilution: 25 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 23:26

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		1.3	13	70	*U*
179601-23-1	m,p-Xylene		2.0	25		*U*
79-20-9	Methyl acetate		3.5	13		*U*
1634-04-4	Methyl tert-butyl ether		0.75	13	20	*U*
108-87-2	Methylcyclohexane		0.75	13		*U*
75-09-2	Methylene chloride		0.50	13		*U*
95-47-6	o-Xylene		0.75	13		*U*
100-42-5	Styrene		0.50	13	70	*U*
127-18-4	Tetrachloroethene	96	1.5	13	0.7	*D*
108-88-3	Toluene	0.76	0.75	13	600	*JD*
156-60-5	trans-1,2-Dichloroethene		1.3	13	100	*U*
10061-02-6	trans-1,3-Dichloropropene		1.3	13		*U*
79-01-6	Trichloroethene	150	0.75	13	3	*D*
75-69-4	Trichlorofluoromethane		1.5	13	2000	*U*
75-01-4	Vinyl chloride	6.2	1.8	13	0.03	*JD*
1330-20-7	Xylenes (total)		0.75	13	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.962	119	65 - 150	
1,2-Dichloroethane-d4	5.000	6.160	123	59 - 150	
Toluene-d8	5.000	5.444	109	61 - 145	
Bromofluorobenzene	5.000	5.129	103	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-2DL

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-02D91.d Sampled: 07/21/15 15:15

Initial/Final: 25mL / 25mL Lab ID: 1507060-02RE1 Received: 07/22/15 08:02

Dilution: 125 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 19:48

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
156-59-2	cis-1,2-Dichloroethene	2900	3.8	63	70	*D*

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-3

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-03D91.d Sampled: 07/21/15 14:40

Initial/Final: 25mL / 25mL Lab ID: 1507060-03 Received: 07/22/15 08:02

Dilution: 8.33 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 20:51

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	0.39	0.17	4.2	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		0.42	4.2	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	39	0.42	4.2	200000	*D*
79-00-5	1,1,2-Trichloroethane		0.33	4.2		*U*
75-34-3	1,1-Dichloroethane	0.95	0.17	4.2	6	*JD*
75-35-4	1,1-Dichloroethene	6.0	0.33	4.2	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		0.50	4.2	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		2.1	4.2	0.04	*U*
106-93-4	1,2-Dibromoethane		0.33	4.2	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.25	4.2	20	*U*
107-06-2	1,2-Dichloroethane		0.25	4.2	0.4	*U*
78-87-5	1,2-Dichloropropane		1.0	4.2	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.33	4.2	200	*U*
106-46-7	1,4-Dichlorobenzene		0.25	4.2	6	*U*
78-93-3	2-Butanone	36	2.3	21	4000	*D*
591-78-6	2-Hexanone		4.2	21		*U*
108-10-1	4-Methyl-2-pentanone		3.5	21		*U*
67-64-1	Acetone	200	3.7	21		*D*
71-43-2	Benzene	0.78	0.25	4.2	1	*JD*
75-27-4	Bromodichloromethane		0.25	4.2	0.6	*U*
75-25-2	Bromoform		0.25	4.2	4	*U*
74-83-9	Bromomethane		0.92	4.2		*U*
75-15-0	Carbon disulfide	5.7	0.17	4.2	700	*D*
56-23-5	Carbon tetrachloride		0.25	4.2	0.3	*U*
108-90-7	Chlorobenzene		0.17	4.2	50	*U*
75-00-3	Chloroethane		1.7	4.2	3000	*U*
67-66-3	Chloroform		0.25	4.2	70	*U*
74-87-3	Chloromethane		0.92	4.2	3	*U*
156-59-2	cis-1,2-Dichloroethene	0.49	0.25	4.2	70	*JD*
10061-01-5	cis-1,3-Dichloropropene		0.33	4.2	0.4	*U*
110-82-7	Cyclohexane		0.17	4.2		*U*
124-48-1	Dibromochloromethane		0.33	4.2	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.25	4.2	1000	*U*
100-41-4	Ethylbenzene		0.33	4.2	600	*U*

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SW 8260B

MW-3

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-03D91.d Sampled: 07/21/15 14:40

Initial/Final: 25mL / 25mL Lab ID: 1507060-03 Received: 07/22/15 08:02

Dilution: 8.33 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 20:51

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.42	4.2	70	*U*
179601-23-1	m,p-Xylene		0.67	8.3		*U*
79-20-9	Methyl acetate		1.2	4.2		*U*
1634-04-4	Methyl tert-butyl ether		0.25	4.2	20	*U*
108-87-2	Methylcyclohexane		0.25	4.2		*U*
75-09-2	Methylene chloride	1.7	0.17	4.2		*JBD*
95-47-6	o-Xylene		0.25	4.2		*U*
100-42-5	Styrene		0.17	4.2	70	*U*
127-18-4	Tetrachloroethene	280	0.50	4.2	0.7	*D*
108-88-3	Toluene		0.25	4.2	600	*U*
156-60-5	trans-1,2-Dichloroethene		0.42	4.2	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.42	4.2		*U*
79-01-6	Trichloroethene	3.7	0.25	4.2	3	*JD*
75-69-4	Trichlorofluoromethane		0.50	4.2	2000	*U*
75-01-4	Vinyl chloride		0.58	4.2	0.03	*U*
1330-20-7	Xylenes (total)		0.25	4.2	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	6.022	120	65 - 150	
1,2-Dichloroethane-d4	5.000	6.133	123	59 - 150	
Toluene-d8	5.000	4.965	99	61 - 145	
Bromofluorobenzene	5.000	4.970	99	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-4

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1091.d Sampled: 07/22/15 10:55

Initial/Final: 25mL / 25mL Lab ID: 1507060-10 Received: 07/23/15 08:11

Dilution: 50 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 04:24

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
79-34-5	1,1,2,2-Tetrachloroethane		2.5	25	0.2	*U*
79-00-5	1,1,2-Trichloroethane		2.0	25		*U*
75-34-3	1,1-Dichloroethane	12	1.0	25	6	*JD*
120-82-1	1,2,4-Trichlorobenzene		3.0	25	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		13	25	0.04	*U*
106-93-4	1,2-Dibromoethane		2.0	25	0.02	*U*
95-50-1	1,2-Dichlorobenzene	13	1.5	25	20	*JD*
107-06-2	1,2-Dichloroethane		1.5	25	0.4	*U*
78-87-5	1,2-Dichloropropane		6.0	25	0.6	*U*
541-73-1	1,3-Dichlorobenzene		2.0	25	200	*U*
106-46-7	1,4-Dichlorobenzene		1.5	25	6	*U*
78-93-3	2-Butanone		14	130	4000	*U*
591-78-6	2-Hexanone		26	130		*U*
108-10-1	4-Methyl-2-pentanone		21	130		*U*
67-64-1	Acetone		22	130		*U*
71-43-2	Benzene		1.5	25	1	*U*
75-27-4	Bromodichloromethane		1.5	25	0.6	*U*
75-25-2	Bromoform		1.5	25	4	*U*
74-83-9	Bromomethane		5.5	25		*U*
75-15-0	Carbon disulfide		1.0	25	700	*U*
56-23-5	Carbon tetrachloride		1.5	25	0.3	*U*
108-90-7	Chlorobenzene	3.2	1.0	25	50	*JD*
75-00-3	Chloroethane		10	25	3000	*U*
67-66-3	Chloroform	2.2	1.5	25	70	*JD*
74-87-3	Chloromethane		5.5	25	3	*U*
156-59-2	cis-1,2-Dichloroethene	2.8	1.5	25	70	*JD*
10061-01-5	cis-1,3-Dichloropropene		2.0	25	0.4	*U*
110-82-7	Cyclohexane		1.0	25		*U*
124-48-1	Dibromochloromethane		2.0	25	0.4	*U*
75-71-8	Dichlorodifluoromethane		1.5	25	1000	*U*
100-41-4	Ethylbenzene	70	2.0	25	600	*D*
98-82-8	Isopropylbenzene		2.5	25	70	*U*
179601-23-1	m,p-Xylene	290	4.0	50		*D*
79-20-9	Methyl acetate		7.0	25		*U*

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SW 8260B

MW-4

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1091.d Sampled: 07/22/15 10:55

Initial/Final: 25mL / 25mL Lab ID: 1507060-10 Received: 07/23/15 08:11

Dilution: 50 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 04:24

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
1634-04-4	Methyl tert-butyl ether		1.5	25	20	*U*
108-87-2	Methylcyclohexane		1.5	25		*U*
75-09-2	Methylene chloride	3.0	1.0	25		*JD*
95-47-6	o-Xylene	51	1.5	25		*D*
100-42-5	Styrene		1.0	25	70	*U*
108-88-3	Toluene	38	1.5	25	600	*D*
156-60-5	trans-1,2-Dichloroethene		2.5	25	100	*U*
10061-02-6	trans-1,3-Dichloropropene		2.5	25		*U*
75-69-4	Trichlorofluoromethane	200	3.0	25	2000	*D*
75-01-4	Vinyl chloride		3.5	25	0.03	*U*
1330-20-7	Xylenes (total)	340	1.5	25	500	*D*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.325	107	65 - 150	
1,2-Dichloroethane-d4	5.000	5.818	116	59 - 150	
Toluene-d8	5.000	4.995	100	61 - 145	
Bromofluorobenzene	5.000	4.982	100	63 - 143	

DL2 - 15A NCAC 02L .0202

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SW 8260B

MW-4DL

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-10D91.d Sampled: 07/22/15 10:55

Initial/Final: 25mL / 25mL Lab ID: 1507060-10RE1 Received: 07/23/15 08:11

Dilution: 1000 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 17:43

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	9300	20	500	200	*D*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11000	50	500	200000	*D*
75-35-4	1,1-Dichloroethene	4000	40	500	3501	*D*
127-18-4	Tetrachloroethene	31000	60	500	0.7	*D*
79-01-6	Trichloroethene	4100	30	500	3	*D*

DL2 - 15A NCAC 02L .0202

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SW 8260B

MW-5

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-08D91.d Sampled: 07/22/15 08:15

Initial/Final: 25mL / 25mL Lab ID: 1507060-08 Received: 07/23/15 08:11

Dilution: 5 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 21:20

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	0.33	0.10	2.5	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		0.25	2.5	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	32	0.25	2.5	200000	*D*
79-00-5	1,1,2-Trichloroethane		0.20	2.5		*U*
75-34-3	1,1-Dichloroethane	0.32	0.10	2.5	6	*JD*
75-35-4	1,1-Dichloroethene	2.8	0.20	2.5	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		0.30	2.5	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		1.3	2.5	0.04	*U*
106-93-4	1,2-Dibromoethane		0.20	2.5	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.15	2.5	20	*U*
107-06-2	1,2-Dichloroethane		0.15	2.5	0.4	*U*
78-87-5	1,2-Dichloropropane		0.60	2.5	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.20	2.5	200	*U*
106-46-7	1,4-Dichlorobenzene		0.15	2.5	6	*U*
78-93-3	2-Butanone		1.4	13	4000	*U*
591-78-6	2-Hexanone		2.6	13		*U*
108-10-1	4-Methyl-2-pentanone		2.1	13		*U*
67-64-1	Acetone	6.0	2.2	13		*JD*
71-43-2	Benzene	0.87	0.15	2.5	1	*JD*
75-27-4	Bromodichloromethane		0.15	2.5	0.6	*U*
75-25-2	Bromoform		0.15	2.5	4	*U*
74-83-9	Bromomethane		0.55	2.5		*U*
75-15-0	Carbon disulfide		0.10	2.5	700	*U*
56-23-5	Carbon tetrachloride		0.15	2.5	0.3	*U*
108-90-7	Chlorobenzene		0.10	2.5	50	*U*
75-00-3	Chloroethane		1.0	2.5	3000	*U*
67-66-3	Chloroform		0.15	2.5	70	*U*
74-87-3	Chloromethane		0.55	2.5	3	*U*
156-59-2	cis-1,2-Dichloroethene	0.31	0.15	2.5	70	*JD*
10061-01-5	cis-1,3-Dichloropropene		0.20	2.5	0.4	*U*
110-82-7	Cyclohexane		0.10	2.5		*U*
124-48-1	Dibromochloromethane		0.20	2.5	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.15	2.5	1000	*U*
100-41-4	Ethylbenzene		0.20	2.5	600	*U*

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SW 8260B

MW-5

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-08D91.d Sampled: 07/22/15 08:15

Initial/Final: 25mL / 25mL Lab ID: 1507060-08 Received: 07/23/15 08:11

Dilution: 5 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 21:20

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.25	2.5	70	*U*
179601-23-1	m,p-Xylene		0.40	5.0		*U*
79-20-9	Methyl acetate		0.70	2.5		*U*
1634-04-4	Methyl tert-butyl ether		0.15	2.5	20	*U*
108-87-2	Methylcyclohexane		0.15	2.5		*U*
75-09-2	Methylene chloride		0.10	2.5		*U*
95-47-6	o-Xylene		0.15	2.5		*U*
100-42-5	Styrene		0.10	2.5	70	*U*
127-18-4	Tetrachloroethene	150	0.30	2.5	0.7	*D*
108-88-3	Toluene	0.30	0.15	2.5	600	*JD*
156-60-5	trans-1,2-Dichloroethene		0.25	2.5	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.25	2.5		*U*
79-01-6	Trichloroethene	0.37	0.15	2.5	3	*JD*
75-69-4	Trichlorofluoromethane		0.30	2.5	2000	*U*
75-01-4	Vinyl chloride		0.35	2.5	0.03	*U*
1330-20-7	Xylenes (total)		0.15	2.5	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.560	111	65 - 150	
1,2-Dichloroethane-d4	5.000	5.740	115	59 - 150	
Toluene-d8	5.000	5.171	103	61 - 145	
Bromofluorobenzene	5.000	5.190	104	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-7

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2291.d Sampled: 07/23/15 09:30

Initial/Final: 25mL / 25mL Lab ID: 1507060-22 Received: 07/23/15 16:30

Dilution: 41.67 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 16:40

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	57	0.83	21	200	*D*
79-34-5	1,1,2,2-Tetrachloroethane		2.1	21	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	360	2.1	21	200000	*D*
79-00-5	1,1,2-Trichloroethane		1.7	21		*U*
75-34-3	1,1-Dichloroethane	3.8	0.83	21	6	*JD*
75-35-4	1,1-Dichloroethene	230	1.7	21	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		2.5	21	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		10	21	0.04	*U*
106-93-4	1,2-Dibromoethane		1.7	21	0.02	*U*
95-50-1	1,2-Dichlorobenzene		1.3	21	20	*U*
107-06-2	1,2-Dichloroethane		1.3	21	0.4	*U*
78-87-5	1,2-Dichloropropane		5.0	21	0.6	*U*
541-73-1	1,3-Dichlorobenzene		1.7	21	200	*U*
106-46-7	1,4-Dichlorobenzene		1.3	21	6	*U*
78-93-3	2-Butanone		12	100	4000	*U*
591-78-6	2-Hexanone		21	100		*U*
108-10-1	4-Methyl-2-pentanone		18	100		*U*
67-64-1	Acetone		18	100		*U*
71-43-2	Benzene		1.3	21	1	*U*
75-27-4	Bromodichloromethane		1.3	21	0.6	*U*
75-25-2	Bromoform		1.3	21	4	*U*
74-83-9	Bromomethane		4.6	21		*U*
75-15-0	Carbon disulfide		0.83	21	700	*U*
56-23-5	Carbon tetrachloride		1.3	21	0.3	*U*
108-90-7	Chlorobenzene		0.83	21	50	*U*
75-00-3	Chloroethane		8.3	21	3000	*U*
67-66-3	Chloroform		1.3	21	70	*U*
74-87-3	Chloromethane		4.6	21	3	*U*
156-59-2	cis-1,2-Dichloroethene	3.7	1.3	21	70	*JD*
10061-01-5	cis-1,3-Dichloropropene		1.7	21	0.4	*U*
110-82-7	Cyclohexane		0.83	21		*U*
124-48-1	Dibromochloromethane		1.7	21	0.4	*U*
75-71-8	Dichlorodifluoromethane		1.3	21	1000	*U*
100-41-4	Ethylbenzene		1.7	21	600	*U*

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SW 8260B

MW-7

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2291.d Sampled: 07/23/15 09:30

Initial/Final: 25mL / 25mL Lab ID: 1507060-22 Received: 07/23/15 16:30

Dilution: 41.67 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 16:40

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		2.1	21	70	*U*
179601-23-1	m,p-Xylene		3.3	42		*U*
79-20-9	Methyl acetate		5.8	21		*U*
1634-04-4	Methyl tert-butyl ether		1.3	21	20	*U*
108-87-2	Methylcyclohexane		1.3	21		*U*
75-09-2	Methylene chloride		0.83	21		*U*
95-47-6	o-Xylene		1.3	21		*U*
100-42-5	Styrene		0.83	21	70	*U*
127-18-4	Tetrachloroethene	1100	2.5	21	0.7	*D*
108-88-3	Toluene		1.3	21	600	*U*
156-60-5	trans-1,2-Dichloroethene		2.1	21	100	*U*
10061-02-6	trans-1,3-Dichloropropene		2.1	21		*U*
79-01-6	Trichloroethene	80	1.3	21	3	*D*
75-69-4	Trichlorofluoromethane	6.1	2.5	21	2000	*JD*
75-01-4	Vinyl chloride		2.9	21	0.03	*U*
1330-20-7	Xylenes (total)		1.3	21	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.916	118	65 - 150	
1,2-Dichloroethane-d4	5.000	5.977	120	59 - 150	
Toluene-d8	5.000	5.062	101	61 - 145	
Bromofluorobenzene	5.000	4.993	100	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-8

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0491.d Sampled: 07/21/15 12:55

Initial/Final: 25mL / 25mL Lab ID: 1507060-04 Received: 07/22/15 08:02

Dilution: 20 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 21:24

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	1.3	0.40	10	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		1.0	10	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19	1.0	10	200000	*D*
79-00-5	1,1,2-Trichloroethane		0.80	10		*U*
75-34-3	1,1-Dichloroethane	14	0.40	10	6	*D*
75-35-4	1,1-Dichloroethene	92	0.80	10	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		1.2	10	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		5.0	10	0.04	*U*
106-93-4	1,2-Dibromoethane		0.80	10	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.60	10	20	*U*
107-06-2	1,2-Dichloroethane		0.60	10	0.4	*U*
78-87-5	1,2-Dichloropropane		2.4	10	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.80	10	200	*U*
106-46-7	1,4-Dichlorobenzene		0.60	10	6	*U*
78-93-3	2-Butanone	45	5.6	50	4000	*JD*
591-78-6	2-Hexanone		10	50		*U*
108-10-1	4-Methyl-2-pentanone		8.4	50		*U*
67-64-1	Acetone	22	8.8	50		*JD*
71-43-2	Benzene		0.60	10	1	*U*
75-27-4	Bromodichloromethane		0.60	10	0.6	*U*
75-25-2	Bromoform		0.60	10	4	*U*
74-83-9	Bromomethane		2.2	10		*U*
75-15-0	Carbon disulfide	2.8	0.40	10	700	*JD*
56-23-5	Carbon tetrachloride		0.60	10	0.3	*U*
108-90-7	Chlorobenzene		0.40	10	50	*U*
75-00-3	Chloroethane		4.0	10	3000	*U*
67-66-3	Chloroform		0.60	10	70	*U*
74-87-3	Chloromethane		2.2	10	3	*U*
156-59-2	cis-1,2-Dichloroethene	620	0.60	10	70	*D*
10061-01-5	cis-1,3-Dichloropropene		0.80	10	0.4	*U*
110-82-7	Cyclohexane		0.40	10		*U*
124-48-1	Dibromochloromethane		0.80	10	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.60	10	1000	*U*
100-41-4	Ethylbenzene		0.80	10	600	*U*

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SW 8260B

MW-8

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0491.d Sampled: 07/21/15 12:55

Initial/Final: 25mL / 25mL Lab ID: 1507060-04 Received: 07/22/15 08:02

Dilution: 20 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 21:24

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		1.0	10	70	*U*
179601-23-1	m,p-Xylene		1.6	20		*U*
79-20-9	Methyl acetate		2.8	10		*U*
1634-04-4	Methyl tert-butyl ether		0.60	10	20	*U*
108-87-2	Methylcyclohexane		0.60	10		*U*
75-09-2	Methylene chloride		0.40	10		*U*
95-47-6	o-Xylene		0.60	10		*U*
100-42-5	Styrene		0.40	10	70	*U*
127-18-4	Tetrachloroethene	3.0	1.2	10	0.7	*JD*
108-88-3	Toluene		0.60	10	600	*U*
156-60-5	trans-1,2-Dichloroethene		1.0	10	100	*U*
10061-02-6	trans-1,3-Dichloropropene		1.0	10		*U*
79-01-6	Trichloroethene	40	0.60	10	3	*D*
75-69-4	Trichlorofluoromethane		1.2	10	2000	*U*
75-01-4	Vinyl chloride	13	1.4	10	0.03	*D*
1330-20-7	Xylenes (total)		0.60	10	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	6.004	120	65 - 150	
1,2-Dichloroethane-d4	5.000	6.105	122	59 - 150	
Toluene-d8	5.000	5.436	109	61 - 145	
Bromofluorobenzene	5.000	4.866	97	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

MW-9

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1391.d Sampled: 07/22/15 14:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-13 Received: 07/23/15 08:11

Dilution: 5 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 22:54

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane	0.47	0.10	2.5	200	*JD*
79-34-5	1,1,2,2-Tetrachloroethane		0.25	2.5	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	0.25	2.5	200000	*D*
79-00-5	1,1,2-Trichloroethane		0.20	2.5		*U*
75-34-3	1,1-Dichloroethane	0.62	0.10	2.5	6	*JD*
75-35-4	1,1-Dichloroethene	5.0	0.20	2.5	3501	*D*
120-82-1	1,2,4-Trichlorobenzene		0.30	2.5	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		1.3	2.5	0.04	*U*
106-93-4	1,2-Dibromoethane		0.20	2.5	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.15	2.5	20	*U*
107-06-2	1,2-Dichloroethane		0.15	2.5	0.4	*U*
78-87-5	1,2-Dichloropropane		0.60	2.5	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.20	2.5	200	*U*
106-46-7	1,4-Dichlorobenzene		0.15	2.5	6	*U*
78-93-3	2-Butanone		1.4	13	4000	*U*
591-78-6	2-Hexanone		2.6	13		*U*
108-10-1	4-Methyl-2-pentanone		2.1	13		*U*
67-64-1	Acetone		2.2	13		*U*
71-43-2	Benzene		0.15	2.5	1	*U*
75-27-4	Bromodichloromethane		0.15	2.5	0.6	*U*
75-25-2	Bromoform		0.15	2.5	4	*U*
74-83-9	Bromomethane		0.55	2.5		*U*
75-15-0	Carbon disulfide		0.10	2.5	700	*U*
56-23-5	Carbon tetrachloride		0.15	2.5	0.3	*U*
108-90-7	Chlorobenzene		0.10	2.5	50	*U*
75-00-3	Chloroethane		1.0	2.5	3000	*U*
67-66-3	Chloroform		0.15	2.5	70	*U*
74-87-3	Chloromethane		0.55	2.5	3	*U*
156-59-2	cis-1,2-Dichloroethene		0.15	2.5	70	*U*
10061-01-5	cis-1,3-Dichloropropene		0.20	2.5	0.4	*U*
110-82-7	Cyclohexane		0.10	2.5		*U*
124-48-1	Dibromochloromethane		0.20	2.5	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.15	2.5	1000	*U*
100-41-4	Ethylbenzene		0.20	2.5	600	*U*

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SW 8260B

MW-9

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-1391.d Sampled: 07/22/15 14:10

Initial/Final: 25mL / 25mL Lab ID: 1507060-13 Received: 07/23/15 08:11

Dilution: 5 pH: 1 Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 22:54

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.25	2.5	70	*U*
179601-23-1	m,p-Xylene		0.40	5.0		*U*
79-20-9	Methyl acetate		0.70	2.5		*U*
1634-04-4	Methyl tert-butyl ether		0.15	2.5	20	*U*
108-87-2	Methylcyclohexane		0.15	2.5		*U*
75-09-2	Methylene chloride		0.10	2.5		*U*
95-47-6	o-Xylene		0.15	2.5		*U*
100-42-5	Styrene		0.10	2.5	70	*U*
127-18-4	Tetrachloroethene	150	0.30	2.5	0.7	*D*
108-88-3	Toluene		0.15	2.5	600	*U*
156-60-5	trans-1,2-Dichloroethene		0.25	2.5	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.25	2.5		*U*
79-01-6	Trichloroethene	2.8	0.15	2.5	3	*D*
75-69-4	Trichlorofluoromethane		0.30	2.5	2000	*U*
75-01-4	Vinyl chloride		0.35	2.5	0.03	*U*
1330-20-7	Xylenes (total)		0.15	2.5	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	6.034	121	65 - 150	
1,2-Dichloroethane-d4	5.000	6.283	126	59 - 150	
Toluene-d8	5.000	5.130	103	61 - 145	
Bromofluorobenzene	5.000	5.161	103	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

TB-3

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2491.d Sampled: 07/23/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-24 Received: 07/23/15 16:30

Dilution: 1 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 18:14

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50		*U*
75-34-3	1,1-Dichloroethane		0.020	0.50	6	*U*
75-35-4	1,1-Dichloroethene		0.040	0.50	3501	*U*
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	0.04	*U*
106-93-4	1,2-Dibromoethane		0.040	0.50	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.030	0.50	20	*U*
107-06-2	1,2-Dichloroethane		0.030	0.50	0.4	*U*
78-87-5	1,2-Dichloropropane		0.12	0.50	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.040	0.50	200	*U*
106-46-7	1,4-Dichlorobenzene		0.030	0.50	6	*U*
78-93-3	2-Butanone		0.28	2.5	4000	*U*
591-78-6	2-Hexanone		0.51	2.5		*U*
108-10-1	4-Methyl-2-pentanone		0.42	2.5		*U*
67-64-1	Acetone		0.44	2.5		*U*
71-43-2	Benzene		0.030	0.50	1	*U*
75-27-4	Bromodichloromethane		0.030	0.50	0.6	*U*
75-25-2	Bromoform		0.030	0.50	4	*U*
74-83-9	Bromomethane		0.11	0.50		*U*
75-15-0	Carbon disulfide		0.020	0.50	700	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	0.3	*U*
108-90-7	Chlorobenzene		0.020	0.50	50	*U*
75-00-3	Chloroethane		0.20	0.50	3000	*U*
67-66-3	Chloroform		0.030	0.50	70	*U*
74-87-3	Chloromethane	0.18	0.11	0.50	3	*J*
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	70	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	0.4	*U*
110-82-7	Cyclohexane		0.020	0.50		*U*
124-48-1	Dibromochloromethane		0.040	0.50	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.030	0.50	1000	*U*
100-41-4	Ethylbenzene		0.040	0.50	600	*U*

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SW 8260B

TB-3

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2491.d Sampled: 07/23/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-24 Received: 07/23/15 16:30

Dilution: 1 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 18:14

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.050	0.50	70	*U*
179601-23-1	m,p-Xylene		0.080	1.0		*U*
79-20-9	Methyl acetate		0.14	0.50		*U*
1634-04-4	Methyl tert-butyl ether		0.030	0.50	20	*U*
108-87-2	Methylcyclohexane		0.030	0.50		*U*
75-09-2	Methylene chloride		0.020	0.50		*U*
95-47-6	o-Xylene		0.030	0.50		*U*
100-42-5	Styrene		0.020	0.50	70	*U*
127-18-4	Tetrachloroethene		0.060	0.50	0.7	*U*
108-88-3	Toluene	0.17	0.030	0.50	600	*J*
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50		*U*
79-01-6	Trichloroethene		0.030	0.50	3	*U*
75-69-4	Trichlorofluoromethane		0.060	0.50	2000	*U*
75-01-4	Vinyl chloride		0.070	0.50	0.03	*U*
1330-20-7	Xylenes (total)		0.030	0.50	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.985	120	65 - 150	
1,2-Dichloroethane-d4	5.000	6.245	125	59 - 150	
Toluene-d8	5.000	5.085	102	61 - 145	
Bromofluorobenzene	5.000	5.187	104	63 - 143	

DL2 - 15A NCAC 02L .0202

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SW 8260B

TRIP BLANK1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0791.d Sampled: 07/21/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-07 Received: 07/22/15 08:02

Dilution: 1 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 01:15

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50		*U*
75-34-3	1,1-Dichloroethane		0.020	0.50	6	*U*
75-35-4	1,1-Dichloroethene		0.040	0.50	3501	*U*
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	0.04	*U*
106-93-4	1,2-Dibromoethane		0.040	0.50	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.030	0.50	20	*U*
107-06-2	1,2-Dichloroethane		0.030	0.50	0.4	*U*
78-87-5	1,2-Dichloropropane		0.12	0.50	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.040	0.50	200	*U*
106-46-7	1,4-Dichlorobenzene		0.030	0.50	6	*U*
78-93-3	2-Butanone		0.28	2.5	4000	*U*
591-78-6	2-Hexanone		0.51	2.5		*U*
108-10-1	4-Methyl-2-pentanone		0.42	2.5		*U*
67-64-1	Acetone		0.44	2.5		*U*
71-43-2	Benzene		0.030	0.50	1	*U*
75-27-4	Bromodichloromethane		0.030	0.50	0.6	*U*
75-25-2	Bromoform		0.030	0.50	4	*U*
74-83-9	Bromomethane		0.11	0.50		*U*
75-15-0	Carbon disulfide		0.020	0.50	700	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	0.3	*U*
108-90-7	Chlorobenzene		0.020	0.50	50	*U*
75-00-3	Chloroethane		0.20	0.50	3000	*U*
67-66-3	Chloroform		0.030	0.50	70	*U*
74-87-3	Chloromethane	0.17	0.11	0.50	3	*J*
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	70	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	0.4	*U*
110-82-7	Cyclohexane		0.020	0.50		*U*
124-48-1	Dibromochloromethane		0.040	0.50	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.030	0.50	1000	*U*
100-41-4	Ethylbenzene		0.040	0.50	600	*U*

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SW 8260B

TRIP BLANK1

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-0791.d Sampled: 07/21/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-07 Received: 07/22/15 08:02

Dilution: 1 pH: 1 Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/29/15 01:15

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.050	0.50	70	*U*
179601-23-1	m,p-Xylene		0.080	1.0		*U*
79-20-9	Methyl acetate		0.14	0.50		*U*
1634-04-4	Methyl tert-butyl ether		0.030	0.50	20	*U*
108-87-2	Methylcyclohexane		0.030	0.50		*U*
75-09-2	Methylene chloride		0.020	0.50		*U*
95-47-6	o-Xylene		0.030	0.50		*U*
100-42-5	Styrene		0.020	0.50	70	*U*
127-18-4	Tetrachloroethene		0.060	0.50	0.7	*U*
108-88-3	Toluene		0.030	0.50	600	*U*
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50		*U*
79-01-6	Trichloroethene		0.030	0.50	3	*U*
75-69-4	Trichlorofluoromethane		0.060	0.50	2000	*U*
75-01-4	Vinyl chloride		0.070	0.50	0.03	*U*
1330-20-7	Xylenes (total)		0.030	0.50	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.809	116	65 - 150	
1,2-Dichloroethane-d4	5.000	6.158	123	59 - 150	
Toluene-d8	5.000	5.178	104	61 - 145	
Bromofluorobenzene	5.000	4.617	92	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

TRIP BLANK2

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2091.d Sampled: 07/22/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-20 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 15:37

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	200	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	0.2	*U*
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	200000	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50		*U*
75-34-3	1,1-Dichloroethane		0.020	0.50	6	*U*
75-35-4	1,1-Dichloroethene		0.040	0.50	3501	*U*
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	70	*U*
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	0.04	*U*
106-93-4	1,2-Dibromoethane		0.040	0.50	0.02	*U*
95-50-1	1,2-Dichlorobenzene		0.030	0.50	20	*U*
107-06-2	1,2-Dichloroethane		0.030	0.50	0.4	*U*
78-87-5	1,2-Dichloropropane		0.12	0.50	0.6	*U*
541-73-1	1,3-Dichlorobenzene		0.040	0.50	200	*U*
106-46-7	1,4-Dichlorobenzene		0.030	0.50	6	*U*
78-93-3	2-Butanone		0.28	2.5	4000	*U*
591-78-6	2-Hexanone		0.51	2.5		*U*
108-10-1	4-Methyl-2-pentanone		0.42	2.5		*U*
67-64-1	Acetone		0.44	2.5		*U*
71-43-2	Benzene		0.030	0.50	1	*U*
75-27-4	Bromodichloromethane		0.030	0.50	0.6	*U*
75-25-2	Bromoform		0.030	0.50	4	*U*
74-83-9	Bromomethane		0.11	0.50		*U*
75-15-0	Carbon disulfide		0.020	0.50	700	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	0.3	*U*
108-90-7	Chlorobenzene		0.020	0.50	50	*U*
75-00-3	Chloroethane		0.20	0.50	3000	*U*
67-66-3	Chloroform		0.030	0.50	70	*U*
74-87-3	Chloromethane	0.14	0.11	0.50	3	*J*
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	70	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	0.4	*U*
110-82-7	Cyclohexane		0.020	0.50		*U*
124-48-1	Dibromochloromethane		0.040	0.50	0.4	*U*
75-71-8	Dichlorodifluoromethane		0.030	0.50	1000	*U*
100-41-4	Ethylbenzene		0.040	0.50	600	*U*

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ANALYSIS DATA SHEET

SW 8260B

TRIP BLANK2

Client: SOLUTIONS-IES, INC. SDG 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Preparation: EPA 5030B File ID: 1507060-2091.d Sampled: 07/22/15 00:00

Initial/Final: 25mL / 25mL Lab ID: 1507060-20 Received: 07/23/15 08:11

Dilution: 1 pH: 1 Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 15:37

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	DL2	Q
98-82-8	Isopropylbenzene		0.050	0.50	70	*U*
179601-23-1	m,p-Xylene		0.080	1.0		*U*
79-20-9	Methyl acetate		0.14	0.50		*U*
1634-04-4	Methyl tert-butyl ether		0.030	0.50	20	*U*
108-87-2	Methylcyclohexane		0.030	0.50		*U*
75-09-2	Methylene chloride		0.020	0.50		*U*
95-47-6	o-Xylene		0.030	0.50		*U*
100-42-5	Styrene		0.020	0.50	70	*U*
127-18-4	Tetrachloroethene		0.060	0.50	0.7	*U*
108-88-3	Toluene	0.15	0.030	0.50	600	*J*
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	100	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50		*U*
79-01-6	Trichloroethene		0.030	0.50	3	*U*
75-69-4	Trichlorofluoromethane		0.060	0.50	2000	*U*
75-01-4	Vinyl chloride		0.070	0.50	0.03	*U*
1330-20-7	Xylenes (total)		0.030	0.50	500	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.986	120	65 - 150	
1,2-Dichloroethane-d4	5.000	6.219	124	59 - 150	
Toluene-d8	5.000	5.257	105	61 - 145	
Bromofluorobenzene	5.000	5.513	110	63 - 143	

DL2 - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

SW 8260B

VBLKSR

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072809-BLK1R91.d QC Type: Blank

Initial/Final: 25mL / 25mL Lab ID: 5072809-BLK1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/28/15 19:03

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
75-34-3	1,1-Dichloroethane		0.020	0.50	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	U
106-93-4	1,2-Dibromoethane		0.040	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
78-93-3	2-Butanone		0.28	2.5	U
591-78-6	2-Hexanone		0.51	2.5	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U
67-64-1	Acetone		0.44	2.5	U
71-43-2	Benzene		0.030	0.50	U
75-27-4	Bromodichloromethane		0.030	0.50	U
75-25-2	Bromoform		0.030	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
67-66-3	Chloroform		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
110-82-7	Cyclohexane		0.020	0.50	U
124-48-1	Dibromochloromethane		0.040	0.50	U
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U

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ANALYSIS DATA SHEET

SW 8260B

VBLKSR

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072809-BLK1R91.d QC Type: Blank

Initial/Final: 25mL / 25mL Lab ID: 5072809-BLK1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/28/15 19:03

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene		0.050	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
79-20-9	Methyl acetate		0.14	0.50	U
1634-04-4	Methyl tert-butyl ether		0.030	0.50	U
108-87-2	Methylcyclohexane		0.030	0.50	U
75-09-2	Methylene chloride		0.020	0.50	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
108-88-3	Toluene		0.030	0.50	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.391	108	65 - 150	
1,2-Dichloroethane-d4	5.000	5.827	117	59 - 150	
Toluene-d8	5.000	5.011	100	61 - 145	
Bromofluorobenzene	5.000	4.638	93	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

VBLKSS

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072902-BLK1R91.d QC Type: Blank

Initial/Final: 25mL / 25mL Lab ID: 5072902-BLK1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 19:14

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
75-34-3	1,1-Dichloroethane		0.020	0.50	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	U
106-93-4	1,2-Dibromoethane		0.040	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
78-93-3	2-Butanone		0.28	2.5	U
591-78-6	2-Hexanone		0.51	2.5	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U
67-64-1	Acetone		0.44	2.5	U
71-43-2	Benzene		0.030	0.50	U
75-27-4	Bromodichloromethane		0.030	0.50	U
75-25-2	Bromoform		0.030	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
67-66-3	Chloroform		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
110-82-7	Cyclohexane		0.020	0.50	U
124-48-1	Dibromochloromethane		0.040	0.50	U
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U

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ANALYSIS DATA SHEET

SW 8260B

VBLKSS

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072902-BLK1R91.d QC Type: Blank

Initial/Final: 25mL / 25mL Lab ID: 5072902-BLK1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 19:14

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene		0.050	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
79-20-9	Methyl acetate		0.14	0.50	U
1634-04-4	Methyl tert-butyl ether		0.030	0.50	U
108-87-2	Methylcyclohexane		0.030	0.50	U
75-09-2	Methylene chloride		0.020	0.50	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
108-88-3	Toluene		0.030	0.50	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.584	112	65 - 150	
1,2-Dichloroethane-d4	5.000	5.766	115	59 - 150	
Toluene-d8	5.000	5.509	110	61 - 145	
Bromofluorobenzene	5.000	5.242	105	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

VBLKST

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5073005-BLK1R91.d QC Type: Blank

Initial/Final: 25mL / 25mL Lab ID: 5073005-BLK1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 12:48

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
75-34-3	1,1-Dichloroethane		0.020	0.50	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane		0.25	0.50	U
106-93-4	1,2-Dibromoethane		0.040	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
78-93-3	2-Butanone		0.28	2.5	U
591-78-6	2-Hexanone		0.51	2.5	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U
67-64-1	Acetone		0.44	2.5	U
71-43-2	Benzene		0.030	0.50	U
75-27-4	Bromodichloromethane		0.030	0.50	U
75-25-2	Bromoform		0.030	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
67-66-3	Chloroform		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
110-82-7	Cyclohexane		0.020	0.50	U
124-48-1	Dibromochloromethane		0.040	0.50	U
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U

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ANALYSIS DATA SHEET

SW 8260B

VBLKST

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5073005-BLK1R91.d QC Type: Blank

Initial/Final: 25mL / 25mL Lab ID: 5073005-BLK1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 12:48

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene		0.050	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
79-20-9	Methyl acetate		0.14	0.50	U
1634-04-4	Methyl tert-butyl ether		0.030	0.50	U
108-87-2	Methylcyclohexane		0.030	0.50	U
75-09-2	Methylene chloride	0.035	0.020	0.50	J
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
108-88-3	Toluene		0.030	0.50	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.849	117	65 - 150	
1,2-Dichloroethane-d4	5.000	6.160	123	59 - 150	
Toluene-d8	5.000	5.172	103	61 - 145	
Bromofluorobenzene	5.000	4.958	99	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

VLCSSR

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072809-BS191.d QC Type: LCS

Initial/Final: 25mL / 25mL Lab ID: 5072809-BS1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/28/15 19:42

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	4.67	0.020	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	4.82	0.050	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.40	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	4.84	0.040	0.50	
75-34-3	1,1-Dichloroethane	5.12	0.020	0.50	
75-35-4	1,1-Dichloroethene	3.93	0.040	0.50	
120-82-1	1,2,4-Trichlorobenzene	3.86	0.060	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	4.58	0.25	0.50	
106-93-4	1,2-Dibromoethane	4.55	0.040	0.50	
95-50-1	1,2-Dichlorobenzene	4.61	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.15	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.24	0.12	0.50	
541-73-1	1,3-Dichlorobenzene	4.74	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.66	0.030	0.50	
78-93-3	2-Butanone	22.0	0.28	2.5	
591-78-6	2-Hexanone	22.8	0.51	2.5	
108-10-1	4-Methyl-2-pentanone	24.7	0.42	2.5	
67-64-1	Acetone	26.1	0.44	2.5	
71-43-2	Benzene	5.03	0.030	0.50	
75-27-4	Bromodichloromethane	5.34	0.030	0.50	
75-25-2	Bromoform	4.60	0.030	0.50	
74-83-9	Bromomethane	5.82	0.11	0.50	
75-15-0	Carbon disulfide	5.09	0.020	0.50	
56-23-5	Carbon tetrachloride	4.47	0.030	0.50	
108-90-7	Chlorobenzene	4.79	0.020	0.50	
75-00-3	Chloroethane	6.23	0.20	0.50	
67-66-3	Chloroform	5.16	0.030	0.50	
74-87-3	Chloromethane	6.03	0.11	0.50	
156-59-2	cis-1,2-Dichloroethene	4.66	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.75	0.040	0.50	
110-82-7	Cyclohexane	4.93	0.020	0.50	
124-48-1	Dibromochloromethane	4.79	0.040	0.50	
75-71-8	Dichlorodifluoromethane	5.81	0.030	0.50	
100-41-4	Ethylbenzene	4.54	0.040	0.50	

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ANALYSIS DATA SHEET

SW 8260B

VLCSSR

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072809-BS191.d QC Type: LCS

Initial/Final: 25mL / 25mL Lab ID: 5072809-BS1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/28/15 19:42

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene	4.26	0.050	0.50	
179601-23-1	m,p-Xylene	9.42	0.080	1.0	
79-20-9	Methyl acetate	3.93	0.14	0.50	
1634-04-4	Methyl tert-butyl ether	4.51	0.030	0.50	
108-87-2	Methylcyclohexane	4.72	0.030	0.50	
75-09-2	Methylene chloride	4.96	0.020	0.50	
95-47-6	o-Xylene	4.88	0.030	0.50	
100-42-5	Styrene	4.43	0.020	0.50	
127-18-4	Tetrachloroethene	4.10	0.060	0.50	
108-88-3	Toluene	4.83	0.030	0.50	
156-60-5	trans-1,2-Dichloroethene	4.91	0.050	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.22	0.050	0.50	
79-01-6	Trichloroethene	4.23	0.030	0.50	
75-69-4	Trichlorofluoromethane	5.78	0.060	0.50	
75-01-4	Vinyl chloride	5.86	0.070	0.50	
1330-20-7	Xylenes (total)	14.3	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	4.912	98	65 - 150	
1,2-Dichloroethane-d4	5.000	5.195	104	59 - 150	
Toluene-d8	5.000	4.913	98	61 - 145	
Bromofluorobenzene	5.000	4.630	93	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

VLCSDSR

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072809-BSD191.d QC Type: LCS Dup

Initial/Final: 25mL / 25mL Lab ID: 5072809-BSD1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/28/15 20:13

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	4.62	0.020	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.19	0.050	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.42	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	5.12	0.040	0.50	
75-34-3	1,1-Dichloroethane	5.22	0.020	0.50	
75-35-4	1,1-Dichloroethene	4.18	0.040	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.07	0.060	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	5.20	0.25	0.50	
106-93-4	1,2-Dibromoethane	4.82	0.040	0.50	
95-50-1	1,2-Dichlorobenzene	4.87	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.27	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.23	0.12	0.50	
541-73-1	1,3-Dichlorobenzene	4.93	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.82	0.030	0.50	
78-93-3	2-Butanone	24.5	0.28	2.5	
591-78-6	2-Hexanone	25.7	0.51	2.5	
108-10-1	4-Methyl-2-pentanone	27.5	0.42	2.5	
67-64-1	Acetone	29.2	0.44	2.5	
71-43-2	Benzene	5.05	0.030	0.50	
75-27-4	Bromodichloromethane	5.30	0.030	0.50	
75-25-2	Bromoform	4.83	0.030	0.50	
74-83-9	Bromomethane	5.58	0.11	0.50	
75-15-0	Carbon disulfide	5.16	0.020	0.50	
56-23-5	Carbon tetrachloride	4.46	0.030	0.50	
108-90-7	Chlorobenzene	4.92	0.020	0.50	
75-00-3	Chloroethane	6.26	0.20	0.50	
67-66-3	Chloroform	5.16	0.030	0.50	
74-87-3	Chloromethane	6.41	0.11	0.50	
156-59-2	cis-1,2-Dichloroethene	4.77	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.87	0.040	0.50	
110-82-7	Cyclohexane	5.04	0.020	0.50	
124-48-1	Dibromochloromethane	5.01	0.040	0.50	
75-71-8	Dichlorodifluoromethane	5.98	0.030	0.50	
100-41-4	Ethylbenzene	4.69	0.040	0.50	

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SW 8260B

VLCSDSR

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072809-BSD191.d QC Type: LCS Dup

Initial/Final: 25mL / 25mL Lab ID: 5072809-BSD1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/28/15 19:03

% Moisture: NA Analyzed: 07/28/15 20:13

Batch: 5072809 Sequence: 5G28006 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene	4.34	0.050	0.50	
179601-23-1	m,p-Xylene	9.61	0.080	1.0	
79-20-9	Methyl acetate	4.32	0.14	0.50	
1634-04-4	Methyl tert-butyl ether	4.86	0.030	0.50	
108-87-2	Methylcyclohexane	4.76	0.030	0.50	
75-09-2	Methylene chloride	5.10	0.020	0.50	
95-47-6	o-Xylene	4.94	0.030	0.50	
100-42-5	Styrene	4.54	0.020	0.50	
127-18-4	Tetrachloroethene	4.35	0.060	0.50	
108-88-3	Toluene	4.96	0.030	0.50	
156-60-5	trans-1,2-Dichloroethene	4.98	0.050	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.43	0.050	0.50	
79-01-6	Trichloroethene	4.28	0.030	0.50	
75-69-4	Trichlorofluoromethane	5.70	0.060	0.50	
75-01-4	Vinyl chloride	6.29	0.070	0.50	
1330-20-7	Xylenes (total)	14.6	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	4.909	98	65 - 150	
1,2-Dichloroethane-d4	5.000	5.316	106	59 - 150	
Toluene-d8	5.000	4.980	100	61 - 145	
Bromofluorobenzene	5.000	4.772	95	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

VLCSSS

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072902-BS191.d QC Type: LCS

Initial/Final: 25mL / 25mL Lab ID: 5072902-BS1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 19:45

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	5.09	0.020	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.50	0.050	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.32	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	5.23	0.040	0.50	
75-34-3	1,1-Dichloroethane	5.18	0.020	0.50	
75-35-4	1,1-Dichloroethene	4.48	0.040	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.07	0.060	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	4.80	0.25	0.50	
106-93-4	1,2-Dibromoethane	4.78	0.040	0.50	
95-50-1	1,2-Dichlorobenzene	5.02	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.24	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.70	0.12	0.50	
541-73-1	1,3-Dichlorobenzene	5.16	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	5.00	0.030	0.50	
78-93-3	2-Butanone	21.6	0.28	2.5	
591-78-6	2-Hexanone	22.9	0.51	2.5	
108-10-1	4-Methyl-2-pentanone	25.8	0.42	2.5	
67-64-1	Acetone	23.9	0.44	2.5	
71-43-2	Benzene	5.33	0.030	0.50	
75-27-4	Bromodichloromethane	5.14	0.030	0.50	
75-25-2	Bromoform	4.71	0.030	0.50	
74-83-9	Bromomethane	4.65	0.11	0.50	
75-15-0	Carbon disulfide	5.40	0.020	0.50	
56-23-5	Carbon tetrachloride	5.09	0.030	0.50	
108-90-7	Chlorobenzene	5.12	0.020	0.50	
75-00-3	Chloroethane	5.74	0.20	0.50	
67-66-3	Chloroform	5.34	0.030	0.50	
74-87-3	Chloromethane	5.05	0.11	0.50	
156-59-2	cis-1,2-Dichloroethene	4.98	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.75	0.040	0.50	
110-82-7	Cyclohexane	5.10	0.020	0.50	
124-48-1	Dibromochloromethane	4.87	0.040	0.50	
75-71-8	Dichlorodifluoromethane	5.04	0.030	0.50	
100-41-4	Ethylbenzene	5.19	0.040	0.50	

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ANALYSIS DATA SHEET

SW 8260B

VLCSSS

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072902-BS191.d QC Type: LCS

Initial/Final: 25mL / 25mL Lab ID: 5072902-BS1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 19:45

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene	5.09	0.050	0.50	
179601-23-1	m,p-Xylene	10.6	0.080	1.0	
79-20-9	Methyl acetate	4.97	0.14	0.50	
1634-04-4	Methyl tert-butyl ether	4.18	0.030	0.50	
108-87-2	Methylcyclohexane	4.82	0.030	0.50	
75-09-2	Methylene chloride	5.26	0.020	0.50	
95-47-6	o-Xylene	5.23	0.030	0.50	
100-42-5	Styrene	4.68	0.020	0.50	
127-18-4	Tetrachloroethene	4.83	0.060	0.50	
108-88-3	Toluene	5.34	0.030	0.50	
156-60-5	trans-1,2-Dichloroethene	5.34	0.050	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.44	0.050	0.50	
79-01-6	Trichloroethene	4.43	0.030	0.50	
75-69-4	Trichlorofluoromethane	5.53	0.060	0.50	
75-01-4	Vinyl chloride	5.57	0.070	0.50	
1330-20-7	Xylenes (total)	15.9	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	4.876	98	65 - 150	
1,2-Dichloroethane-d4	5.000	5.130	103	59 - 150	
Toluene-d8	5.000	5.027	101	61 - 145	
Bromofluorobenzene	5.000	4.788	96	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

VLCSDSS

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072902-BSD191.d QC Type: LCS Dup

Initial/Final: 25mL / 25mL Lab ID: 5072902-BSD1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 20:17

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	5.03	0.020	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.51	0.050	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.19	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	5.19	0.040	0.50	
75-34-3	1,1-Dichloroethane	5.21	0.020	0.50	
75-35-4	1,1-Dichloroethene	4.58	0.040	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.34	0.060	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	5.07	0.25	0.50	
106-93-4	1,2-Dibromoethane	4.82	0.040	0.50	
95-50-1	1,2-Dichlorobenzene	5.12	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.07	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.58	0.12	0.50	
541-73-1	1,3-Dichlorobenzene	5.23	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	5.10	0.030	0.50	
78-93-3	2-Butanone	21.4	0.28	2.5	
591-78-6	2-Hexanone	23.4	0.51	2.5	
108-10-1	4-Methyl-2-pentanone	26.2	0.42	2.5	
67-64-1	Acetone	23.4	0.44	2.5	
71-43-2	Benzene	5.27	0.030	0.50	
75-27-4	Bromodichloromethane	5.02	0.030	0.50	
75-25-2	Bromoform	4.70	0.030	0.50	
74-83-9	Bromomethane	4.57	0.11	0.50	
75-15-0	Carbon disulfide	5.35	0.020	0.50	
56-23-5	Carbon tetrachloride	5.01	0.030	0.50	
108-90-7	Chlorobenzene	5.15	0.020	0.50	
75-00-3	Chloroethane	5.60	0.20	0.50	
67-66-3	Chloroform	5.19	0.030	0.50	
74-87-3	Chloromethane	5.12	0.11	0.50	
156-59-2	cis-1,2-Dichloroethene	5.00	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.70	0.040	0.50	
110-82-7	Cyclohexane	5.09	0.020	0.50	
124-48-1	Dibromochloromethane	4.89	0.040	0.50	
75-71-8	Dichlorodifluoromethane	5.20	0.030	0.50	
100-41-4	Ethylbenzene	5.27	0.040	0.50	

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ANALYSIS DATA SHEET

SW 8260B

VLCSDSS

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5072902-BSD191.d QC Type: LCS Dup

Initial/Final: 25mL / 25mL Lab ID: 5072902-BSD1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/29/15 19:14

% Moisture: NA Analyzed: 07/29/15 20:17

Batch: 5072902 Sequence: 5G29004 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene	5.19	0.050	0.50	
179601-23-1	m,p-Xylene	10.8	0.080	1.0	
79-20-9	Methyl acetate	4.84	0.14	0.50	
1634-04-4	Methyl tert-butyl ether	4.28	0.030	0.50	
108-87-2	Methylcyclohexane	4.84	0.030	0.50	
75-09-2	Methylene chloride	5.19	0.020	0.50	
95-47-6	o-Xylene	5.27	0.030	0.50	
100-42-5	Styrene	4.81	0.020	0.50	
127-18-4	Tetrachloroethene	4.84	0.060	0.50	
108-88-3	Toluene	5.42	0.030	0.50	
156-60-5	trans-1,2-Dichloroethene	5.22	0.050	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.51	0.050	0.50	
79-01-6	Trichloroethene	4.41	0.030	0.50	
75-69-4	Trichlorofluoromethane	5.39	0.060	0.50	
75-01-4	Vinyl chloride	5.86	0.070	0.50	
1330-20-7	Xylenes (total)	16.1	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	4.844	97	65 - 150	
1,2-Dichloroethane-d4	5.000	5.073	101	59 - 150	
Toluene-d8	5.000	5.143	103	61 - 145	
Bromofluorobenzene	5.000	4.916	98	63 - 143	

Liberty Analytical

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ANALYSIS DATA SHEET

SW 8260B

VLCSST

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5073005-BS191.d QC Type: LCS

Initial/Final: 25mL / 25mL Lab ID: 5073005-BS1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 13:24

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	5.18	0.020	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.43	0.050	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.41	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	5.20	0.040	0.50	
75-34-3	1,1-Dichloroethane	5.23	0.020	0.50	
75-35-4	1,1-Dichloroethene	4.30	0.040	0.50	
120-82-1	1,2,4-Trichlorobenzene	3.75	0.060	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	4.70	0.25	0.50	
106-93-4	1,2-Dibromoethane	4.73	0.040	0.50	
95-50-1	1,2-Dichlorobenzene	4.90	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.35	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.81	0.12	0.50	
541-73-1	1,3-Dichlorobenzene	5.01	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.90	0.030	0.50	
78-93-3	2-Butanone	20.6	0.28	2.5	
591-78-6	2-Hexanone	22.1	0.51	2.5	
108-10-1	4-Methyl-2-pentanone	24.8	0.42	2.5	
67-64-1	Acetone	24.1	0.44	2.5	
71-43-2	Benzene	5.39	0.030	0.50	
75-27-4	Bromodichloromethane	5.25	0.030	0.50	
75-25-2	Bromoform	4.58	0.030	0.50	
74-83-9	Bromomethane	4.42	0.11	0.50	
75-15-0	Carbon disulfide	5.39	0.020	0.50	
56-23-5	Carbon tetrachloride	5.17	0.030	0.50	
108-90-7	Chlorobenzene	4.97	0.020	0.50	
75-00-3	Chloroethane	5.58	0.20	0.50	
67-66-3	Chloroform	5.45	0.030	0.50	
74-87-3	Chloromethane	4.86	0.11	0.50	
156-59-2	cis-1,2-Dichloroethene	4.97	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.26	0.040	0.50	
110-82-7	Cyclohexane	5.11	0.020	0.50	
124-48-1	Dibromochloromethane	4.77	0.040	0.50	
75-71-8	Dichlorodifluoromethane	5.18	0.030	0.50	
100-41-4	Ethylbenzene	5.07	0.040	0.50	

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ANALYSIS DATA SHEET

SW 8260B

VLCSST

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5073005-BS191.d QC Type: LCS

Initial/Final: 25mL / 25mL Lab ID: 5073005-BS1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 13:24

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene	4.89	0.050	0.50	
179601-23-1	m,p-Xylene	10.3	0.080	1.0	
79-20-9	Methyl acetate	4.97	0.14	0.50	
1634-04-4	Methyl tert-butyl ether	4.08	0.030	0.50	
108-87-2	Methylcyclohexane	4.80	0.030	0.50	
75-09-2	Methylene chloride	5.36	0.020	0.50	B
95-47-6	o-Xylene	5.10	0.030	0.50	
100-42-5	Styrene	4.57	0.020	0.50	
127-18-4	Tetrachloroethene	4.79	0.060	0.50	
108-88-3	Toluene	5.18	0.030	0.50	
156-60-5	trans-1,2-Dichloroethene	5.26	0.050	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.11	0.050	0.50	
79-01-6	Trichloroethene	4.30	0.030	0.50	
75-69-4	Trichlorofluoromethane	5.62	0.060	0.50	
75-01-4	Vinyl chloride	5.51	0.070	0.50	
1330-20-7	Xylenes (total)	15.4	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.181	104	65 - 150	
1,2-Dichloroethane-d4	5.000	5.529	111	59 - 150	
Toluene-d8	5.000	5.168	103	61 - 145	
Bromofluorobenzene	5.000	4.894	98	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

VLCSDST

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5073005-BSD191.d QC Type: LCS Dup

Initial/Final: 25mL / 25mL Lab ID: 5073005-BSD1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 13:56

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	5.11	0.020	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.60	0.050	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.26	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	5.25	0.040	0.50	
75-34-3	1,1-Dichloroethane	5.32	0.020	0.50	
75-35-4	1,1-Dichloroethene	4.52	0.040	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.27	0.060	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	4.92	0.25	0.50	
106-93-4	1,2-Dibromoethane	4.77	0.040	0.50	
95-50-1	1,2-Dichlorobenzene	5.14	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.17	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.65	0.12	0.50	
541-73-1	1,3-Dichlorobenzene	5.29	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	5.11	0.030	0.50	
78-93-3	2-Butanone	21.0	0.28	2.5	
591-78-6	2-Hexanone	22.9	0.51	2.5	
108-10-1	4-Methyl-2-pentanone	25.4	0.42	2.5	
67-64-1	Acetone	23.8	0.44	2.5	
71-43-2	Benzene	5.35	0.030	0.50	
75-27-4	Bromodichloromethane	5.08	0.030	0.50	
75-25-2	Bromoform	4.73	0.030	0.50	
74-83-9	Bromomethane	4.60	0.11	0.50	
75-15-0	Carbon disulfide	5.38	0.020	0.50	
56-23-5	Carbon tetrachloride	5.10	0.030	0.50	
108-90-7	Chlorobenzene	5.18	0.020	0.50	
75-00-3	Chloroethane	5.66	0.20	0.50	
67-66-3	Chloroform	5.32	0.030	0.50	
74-87-3	Chloromethane	5.30	0.11	0.50	
156-59-2	cis-1,2-Dichloroethene	4.95	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.32	0.040	0.50	
110-82-7	Cyclohexane	5.16	0.020	0.50	
124-48-1	Dibromochloromethane	4.89	0.040	0.50	
75-71-8	Dichlorodifluoromethane	5.35	0.030	0.50	
100-41-4	Ethylbenzene	5.26	0.040	0.50	

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ANALYSIS DATA SHEET

SW 8260B

VLCSDST

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Matrix: Water Extraction: EPA 5030B File ID: 5073005-BSD191.d QC Type: LCS Dup

Initial/Final: 25mL / 25mL Lab ID: 5073005-BSD1 Column ID: SPB-624

Dilution: 1 pH: Prepared: 07/30/15 12:48

% Moisture: NA Analyzed: 07/30/15 13:56

Batch: 5073005 Sequence: 5G30005 Calibration: 5072401 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
98-82-8	Isopropylbenzene	5.17	0.050	0.50	
179601-23-1	m,p-Xylene	10.7	0.080	1.0	
79-20-9	Methyl acetate	4.89	0.14	0.50	
1634-04-4	Methyl tert-butyl ether	4.21	0.030	0.50	
108-87-2	Methylcyclohexane	4.88	0.030	0.50	
75-09-2	Methylene chloride	5.26	0.020	0.50	B
95-47-6	o-Xylene	5.24	0.030	0.50	
100-42-5	Styrene	4.09	0.020	0.50	
127-18-4	Tetrachloroethene	4.89	0.060	0.50	
108-88-3	Toluene	5.46	0.030	0.50	
156-60-5	trans-1,2-Dichloroethene	5.25	0.050	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.11	0.050	0.50	
79-01-6	Trichloroethene	4.43	0.030	0.50	
75-69-4	Trichlorofluoromethane	5.51	0.060	0.50	
75-01-4	Vinyl chloride	5.84	0.070	0.50	
1330-20-7	Xylenes (total)	16.0	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.003	100	65 - 150	
1,2-Dichloroethane-d4	5.000	5.199	104	59 - 150	
Toluene-d8	5.000	5.234	105	61 - 145	
Bromofluorobenzene	5.000	5.027	101	63 - 143	

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8/6/2015

JODY OVERMYER

SOLUTIONS-IES, INC.

1101 NOWELL ROAD

RALEIGH, NC 27607

Subject:

Report of Data - Project: EATON SELMA-2013.0014.EATN/4

WorkOrder: 1507060

Attn.: JODY OVERMYER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: SOLUTIONS-IES, INC. **Work:** 1507060

Project: EATON SELMA-2013.0014.EATN/4 **Sdg:** 1507060

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1507060-01	MW-1	Water	07/21/2015 12:35	07/22/2015 08:02
1507060-02	MW-2	Water	07/21/2015 15:15	07/22/2015 08:02
1507060-03	MW-3	Water	07/21/2015 14:40	07/22/2015 08:02
1507060-04	MW-8	Water	07/21/2015 12:55	07/22/2015 08:02
1507060-05	MW-18	Water	07/21/2015 15:50	07/22/2015 08:02
1507060-06	DUP-1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-07	TRIP BLANK1	Water	07/21/2015 00:00	07/22/2015 08:02
1507060-08	MW-5	Water	07/22/2015 08:15	07/23/2015 08:11
1507060-09	MW-14	Water	07/22/2015 09:25	07/23/2015 08:11
1507060-10	MW-4	Water	07/22/2015 10:55	07/23/2015 08:11
1507060-11	MW-19	Water	07/22/2015 12:15	07/23/2015 08:11
1507060-12	MW-11	Water	07/22/2015 13:20	07/23/2015 08:11
1507060-13	MW-9	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-14	MW-20	Water	07/22/2015 14:50	07/23/2015 08:11
1507060-15	MW-17	Water	07/22/2015 15:40	07/23/2015 08:11
1507060-16	MW-15	Water	07/22/2015 15:10	07/23/2015 08:11
1507060-17	MW-16	Water	07/22/2015 12:10	07/23/2015 08:11
1507060-18	IW-2A	Water	07/22/2015 10:40	07/23/2015 08:11
1507060-19	IW-42B	Water	07/22/2015 14:10	07/23/2015 08:11
1507060-20	TRIP BLANK2	Water	07/22/2015 00:00	07/23/2015 08:11
1507060-21	MW-13	Water	07/23/2015 10:10	07/23/2015 16:30
1507060-22	MW-7	Water	07/23/2015 09:30	07/23/2015 16:30
1507060-23	IDW-1	Water	07/23/2015 10:00	07/23/2015 16:30
1507060-24	TB-3	Water	07/23/2015 00:00	07/23/2015 16:30

ANALYSES DATA PACKAGE COVER PAGE

Client: SOLUTIONS-IES, INC.

Project: EATON SELMA-2013.0014.EATN/4

Laboratory: Liberty Analytical

SDG: 1507060

Client Sample Id:	Analysis:	Lab Sample Id:
MW-1	EPA 310.2	1507060-01
MW-1	SM3500-FE-B	1507060-01
MW-1	EPA 300.0	1507060-01
MW-1	SM4500S-2-F	1507060-01
MW-1	EPA 351.2	1507060-01
MW-1	SM5310B	1507060-01
MW-2	EPA 300.0	1507060-02
MW-2	SM4500S-2-F	1507060-02
MW-2	EPA 351.2	1507060-02
MW-2	EPA 310.2	1507060-02RE1
MW-2	SM5310B	1507060-02RE1
MW-2	SM3500-FE-B	1507060-02RE2
MW-3	EPA 310.2	1507060-03
MW-3	EPA 300.0	1507060-03
MW-3	SM4500S-2-F	1507060-03
MW-3	SM5310B	1507060-03
MW-3	EPA 300.0	1507060-03RE1
MW-3	SM3500-FE-B	1507060-03RE1
MW-3	EPA 365.4	1507060-03RE1
MW-3	EPA 351.2	1507060-03RE2
MW-8	SM4500S-2-F	1507060-04
MW-8	EPA 351.2	1507060-04
MW-8	EPA 300.0	1507060-04
MW-8	EPA 310.2	1507060-04RE1
MW-8	SM5310B	1507060-04RE1
MW-8	SM3500-FE-B	1507060-04RE2
MW-18	SM4500S-2-F	1507060-05
MW-18	EPA 310.2	1507060-05
MW-18	SM3500-FE-B	1507060-05
MW-18	SM5310B	1507060-05
MW-18	EPA 351.2	1507060-05RE1
MW-18	EPA 300.0	1507060-05RE1
MW-18	EPA 300.0	1507060-05RE2
MW-5	EPA 310.2	1507060-08
MW-5	SM3500-FE-B	1507060-08
MW-5	SM5310B	1507060-08

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MW-5	EPA 300.0	1507060-08
MW-5	SM4500S-2-F	1507060-08
MW-5	EPA 300.0	1507060-08RE1
MW-5	EPA 351.2	1507060-08RE1
MW-5	EPA 300.0	1507060-08RE2
MW-14	SM4500S-2-F	1507060-09
MW-14	EPA 351.2	1507060-09
MW-14	SM3500-FE-B	1507060-09
MW-14	EPA 300.0	1507060-09
MW-14	SM5310B	1507060-09
MW-14	EPA 310.2	1507060-09RE1
MW-4	EPA 310.2	1507060-10
MW-4	SM3500-FE-B	1507060-10
MW-4	EPA 300.0	1507060-10
MW-4	SM4500S-2-F	1507060-10
MW-4	SM5310B	1507060-10
MW-4	EPA 351.2	1507060-10RE1
MW-4	EPA 300.0	1507060-10RE1
MW-4	EPA 300.0	1507060-10RE2
MW-19	EPA 310.2	1507060-11
MW-19	SM4500S-2-F	1507060-11
MW-19	EPA 300.0	1507060-11
MW-19	SM5310B	1507060-11
MW-19	SM3500-FE-B	1507060-11RE1
MW-19	EPA 300.0	1507060-11RE1
MW-19	EPA 351.2	1507060-11RE1
MW-11	EPA 300.0	1507060-12
MW-11	SM4500S-2-F	1507060-12
MW-11	EPA 310.2	1507060-12
MW-11	SM3500-FE-B	1507060-12
MW-11	EPA 351.2	1507060-12
MW-11	SM5310B	1507060-12
MW-9	EPA 310.2	1507060-13
MW-9	SM3500-FE-B	1507060-13
MW-9	EPA 351.2	1507060-13
MW-9	SM5310B	1507060-13
MW-9	EPA 300.0	1507060-13
MW-9	SM4500S-2-F	1507060-13
MW-20	EPA 300.0	1507060-14
MW-20	SM4500S-2-F	1507060-14
MW-20	SM5310B	1507060-14
MW-20	SM3500-FE-B	1507060-14RE1
MW-20	EPA 351.2	1507060-14RE1
MW-20	EPA 310.2	1507060-14RE1
MW-17	EPA 300.0	1507060-15

MW-17	SM4500S-2-F	1507060-15
MW-17	EPA 351.2	1507060-15
MW-17	SM3500-FE-B	1507060-15RE1
MW-17	SM5310B	1507060-15RE1
MW-17	EPA 310.2	1507060-15RE1
MW-15	EPA 351.2	1507060-16
MW-15	SM5310B	1507060-16
MW-15	SM4500S-2-F	1507060-16
MW-15	EPA 300.0	1507060-16
MW-15	SM3500-FE-B	1507060-16
MW-15	EPA 310.2	1507060-16RE1
MW-16	EPA 300.0	1507060-17
MW-16	SM4500S-2-F	1507060-17
MW-16	EPA 351.2	1507060-17
MW-16	EPA 310.2	1507060-17RE1
MW-16	SM3500-FE-B	1507060-17RE1
MW-16	SM5310B	1507060-17RE1
IW-2A	EPA 300.0	1507060-18
IW-2A	SM4500S-2-F	1507060-18
IW-2A	EPA 351.2	1507060-18
IW-2A	SM5310B	1507060-18RE1
IW-2A	EPA 365.4	1507060-18RE1
IW-42B	SM4500S-2-F	1507060-19
IW-42B	EPA 351.2	1507060-19
IW-42B	EPA 300.0	1507060-19
IW-42B	SM5310B	1507060-19
IW-42B	EPA 365.4	1507060-19RE1
MW-13	EPA 310.2	1507060-21
MW-13	SM3500-FE-B	1507060-21
MW-13	EPA 300.0	1507060-21
MW-13	SM4500S-2-F	1507060-21
MW-13	EPA 351.2	1507060-21
MW-13	SM5310B	1507060-21

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions addressed in the narrative. Release of the data contained in this hardcopy data package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Susan W Bass

Name: Susan Bass

Date: 08/06/2015

Title: Chemist III

Liberty Analytical

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501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

A. SDG Narrative

CompuChem

A Division Of

Liberty Analytical Corp.

SDG NARRATIVE
SDG # 1507060
Client: SOLUTIONS-IES, INC.
Project: EATON SELMA-2013.0014.EATN/4

The 18 liquid samples were received intact, at 0.1, 0.2, 0.4, and 1.2°C, with proper documentations, in sealed shipping containers, on July 22 and 23, 2015. The samples were scheduled for the requested analysis of alkalinity, ferrous iron, sulfide, TKN, TKP, nitrate, sulfate, and TOC. The samples were analyzed, in accordance with current EPA methods, for the analytes requested as per the COC, with the exceptions and/or additions requested by the client.

SAMPLE IDs:
The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:
All calibration verification solutions (ICV & CCV) and blanks (ICB &CCB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:
The sample preparation procedure verifications (LCS, LCSD, & Blank) were found to be within acceptable ranges. The samples were analyzed within holding time. Samples MW-4 and MW-5 had nitrate above the calibration range in the first analysis. The samples were reanalyzed at a dilution. This analysis was slightly out of holding time. Both analyses have been reported.

MATRIX RELATED QUALITY CONTROL:
No matrix spikes were requested for these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Susan W Bass

Susan W. Bass
Senior Chemist
August 6, 2015

Liberty Analytical

Liberty Analytical's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is Liberty Analytical's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Revision 7 (01/12/2011)

Liberty Analytical

WET CHEMISTRY DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. The qualifiers used are:

U : This flag indicates the compound was analyzed for, not detected and is reported as less than the Method Detection Limit (MDL) (or as defined by the client). The Reporting Limit (RL), or Limit of Quantitation (LOQ), and the MDL will be adjusted to reflect any dilution or concentration of the sample and, for soils, the percent moisture.

J : This flag indicates the reported result is an estimated value. The flag is used when an analyte is detected and the result is less than the adjusted RL/LOQ but equal to or greater than the MDL.

Q : This flag denotes that one or more quality control criteria have failed (e.g., LCS recovery, Continuing Calibration Verification, or CCV) and reanalyses can't be performed. The Q flag is applied to all specific analyte(s) in all samples associated with the failed quality control criteria.

B : This flag is used when the analyte is found in the associated method or calibration blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

D: This flag is applied to an analyte when the reported result is based on a dilution.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

The extensions: D, S, and SD are added to the end of the Client ID and represent the following:

D – Matrix Duplicate
S – Matrix Spike
SD – Matrix Spike Duplicate

Revision 0 (03-15-2011)

Chain of Custody Records

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the Work Order/SDG.

CHAIN OF CUSTODY

CompuChem
A Division Of
Liberty Analytical Corp.
Environmental Testing Laboratories

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON . SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type): VOCS 8260 B; NITRATE, SULFATE IC 300; Fe+2 SM 3500-Fe B; mg TOTAL 6010; METHANE, ETHANE, ETHENE ACETYLENE RSK 175; TOC SM 5310 B; ALKALINITY 310.2; SULFIDE SM 4500-S F; TKN 351.2; TKP 365.4

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	NO2	NO3	Fe+2	Fe	PCP
1507060-01	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-02	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-03	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	<2	<2	>9	<2	<2
-04	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-05	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		<2	<2	>9	<2	—
-07	TRIP BLANK 1											X														

MW-18: received 1 Plastic liter labeled for MBT (Microbial Insights) contacted Sean - he said we can dispose of sample [illegible] 7/22/15

Lab Use Only

Sample Unpacked By: [illegible]
Sample Order Entry By: [illegible]
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

received 2-40ml VOA 8260B vials for 1507060-06 "DUP-1" collected 7/21/15 not listed on COC [illegible] 7/22/15

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15 0802	Received by: [illegible]	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

pick-up @ client
direct delivery back to lab

TR GUN: SN0010

CompuChem
A Division Of
Liberty Analytical Corp.

Revised

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N 7/21/15
MW-18
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH / Sample Info (Lab Use)
	MW-1	7/21/15	1235	GW	10	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-2	7/21	1515	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-3	7/21	1440	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
	MW-8	7/21	1255	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	MW-18	7/21	1550	GW	11	X	X	X	X			X	X	X	X	X	X	X	X	X		
	TRIP BLANK 1											X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

Sample Custody

Relinquished by: Daniel Beall	Date/Time: 7/21/15	Received by:	Date/Time: 7/22/15 8:02
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem
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CHAIN OF CUSTODY

2013.0014/4

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 1 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Total # of Bottles	Total # of Bottles	Total # of Bottles	Total # of Bottles
1507060-08	MW-5	7/22	815	GW	12							X	X	X	X	X	X	X	X	X		42	42	79	42
-09	MW-14		925		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-10	MW-4		1055		12							X	X	X	X	X	X	X	X	X		42	42	5	42
-11	MW-19		1215		12							X	X	X	X	X	X	X	X	X		42	42	5	42
-12	MW-11		1320		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-13	MW-9		1410		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-14	MW-20		1450		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-20	TRIP BLANK-2		—		2							X													
-15	MW-17		1540		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-16	MW-15		1510		12							X	X	X	X	X	X	X	X	X		42	42	79	42
-17	MW-16		1210		12							X	X	X	X	X	X	X	X	X		42	42	79	42

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4
VOA cooler → 0.1°C

Sample Custody

Relinquished by:	Date/Time: 7/22/15	Received by:	Date/Time: 7-23-15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 1.2, 0.2, 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pick-up from client

IR GUN: SN0010

CompuChem
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Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

2013.0014/4

Page 2 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe+2 SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	pH	Sample Info (Lab Use)			
1507060-18	IW-2A	7/22	1040	GW	10							X	X			X	X		X	X	X					
-19	IW-42B	7/22	1410	GW	10							X	X			X	X		X	X	X					

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:
Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

Sample Custody

Relinquished by:	Date/Time: 7/23/15	Received by:	Date/Time: 8-33 15 8:11
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pick-up from client

sample ID	pH
1507060-17 MW-16	8
-10 MW-4	5
-11 MW-19	5

CompuChem
a division of Liberty Analytical Corporation

QUALITY ASSURANCE NOTICE

CompuChem ID # _____
Client ID # MW-16, MW-4, MW-19
Case # _____
Type of Analysis sulfide
Receipt Date 7/23/15

The pH reading for the sample above was * see chart above; the required pH level is >9.

A CompuChem Project Manager contacted the client who instructed the laboratory to:

Preserve in-house ✓

Note: For samples preserved in house, certain clients require that the maximum amount of preservative added to a sample in an SDG also be added to the associated field or equipment blank. If neither blank is present, the appropriate laboratory must be notified so the proper amount of preservation can be added to the method blank.

Analyze - qualify with notice ✓

Dispose - client will resample _____

Subcontract lab to preserve _____

Project Manager [signature] Date 7/23/15

Preservation Type Zinc Acetate 6 N NaOH Preservative Lot Number 3L16031/4L10015

Preserved By [signature] Date 7/23/15

QAN-R-2
020529

QAN-R-2:052902:llc

CompuChem
A Division Of
Liberty Analytical Corp.

2013.0014/4

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4050

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: SOLUTIONS - IES
Address: 1101 NOWELL Rd
City: RALEIGH State: NC Zip: 27607
Project Contact: JODY OVERMYER
Phone #: 919-873-1060
Sampler's Name: DANIEL BEALL, SEAN JARVAH

Project Information

Project Name: EATON SELMA
Sampling Location: SELMA NC
Turnaround time: STD
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCS 8260 B	NITRATE, SULFATE IC 300	Fe^{+2} SM 3500-Fe B	Mg TOTAL 6010	METHANE, ETHANE, ETHENE ACETYLENE RSK 175	TOC SM 5310 B	ALKALINITY 310.2	SULFIDE SM 4500-S F	TKN 351.2	TKP 365.4	Sample Info
1507060-21	MW-13	7/23/15	1010	GW	12	X	X	X	X			X	X	X	X	X	X	X	X	X		
-22	MW-7		0930	GW	3	X						X										
-24	TB-3		—	DI	3	X						X										
-23	IDW-1		1000	GW	3	X						X										

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

PROJECT NO. 2013.0014. EATN/4

OK per Jody for 21 VOC + 3 TB in WO# 1507060 7/23/15

Sample Custody

Relinquished by:	Date/Time: 7/23/15 1630	Received by: CompuChem	Date/Time: 7/23/15 1630
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 4.9 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

direct pickup from client IR GUN: SN0015

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Report To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone: (919) 873-1060
Fax: -

Invoice To:
SOLUTIONS-IES, INC.
JODY OVERMYER
1101 NOWELL ROAD
RALEIGH, NC 27607
Phone :(919) 873-1060
Fax: -

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-01 MW-1 [Water] Sampled 07/21/2015 12:35 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:35	07/22/2015 08:02	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:35	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:35	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:35	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-02 MW-2 [Water] Sampled 07/21/2015 15:15 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:15	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:15	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:15	07/22/2015 08:02	

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-03 MW-3 [Water] Sampled 07/21/2015 14:40 Eastern					
6010C METALS	08/05/2015 16:00	13	01/17/2016 14:40	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 14:40	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 14:40	07/22/2015 08:02	
1507060-04 MW-8 [Water] Sampled 07/21/2015 12:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 12:55	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/17/2016 12:55	07/22/2015 08:02	
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 12:55	07/22/2015 08:02	

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-05 MW-18 [Water] Sampled 07/21/2015 15:50 Eastern					**HIGH CONC. EXPECTED**
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
6010C METALS	08/05/2015 16:00	13	01/17/2016 15:50	07/22/2015 08:02	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/28/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/18/2015 15:50	07/22/2015 08:02	
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/14/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/04/2015 15:50	07/22/2015 08:02	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-06 DUP-1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-07 TRIP BLANK1 [Water] Sampled 07/21/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/04/2015 00:00	07/22/2015 08:02	SubList=VOA- TCL4 (05-27-15)
1507060-08 MW-5 [Water] Sampled 07/22/2015 08:15 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 08:15	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 08:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 08:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1

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Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-09 MW-14 [Water] Sampled 07/22/2015 09:25 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	
6010C METALS	08/05/2015 16:00	13	01/18/2016 09:25	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 09:25	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 09:25	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-10 MW-4 [Water] Sampled 07/22/2015 10:55 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 10:55	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 10:55	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

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Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-11 MW-19 [Water] Sampled 07/22/2015 12:15 Eastern					
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:15	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:15	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:15	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
1507060-12 MW-11 [Water] Sampled 07/22/2015 13:20 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 13:20	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 13:20	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 13:20	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)

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Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-13 MW-9 [Water] Sampled 07/22/2015 14:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
1507060-14 MW-20 [Water] Sampled 07/22/2015 14:50 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 14:50	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:50	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:50	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)

WORK ORDER

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1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-15 MW-17 [Water] Sampled 07/22/2015 15:40 Eastern					
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:40	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:40	07/23/2015 08:11	
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
1507060-16 MW-15 [Water] Sampled 07/22/2015 15:10 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 15:10	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 15:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 15:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Reviewed**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-17 MW-16 [Water] Sampled 07/22/2015 12:10 Eastern					
ALKALINITY 310.2	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -ALK (08-14-14)
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 12:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
6010C METALS	08/05/2015 16:00	13	01/18/2016 12:10	07/23/2015 08:11	
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/15/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -FERROUS IRON (08
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 12:10	07/23/2015 08:11	
1507060-18 IW-2A [Water] Sampled 07/22/2015 10:40 Eastern					
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 10:40	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 10:40	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 10:40	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
1507060-19 IW-42B [Water] Sampled 07/22/2015 14:10 Eastern					
IC 300 Anions	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/29/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
TTL PHOSPHORUS (TKP) 365.4 W	08/05/2015 16:00	13	08/19/2015 14:10	07/23/2015 08:11	
GC-RSK-175	08/05/2015 16:00	13	08/05/2015 14:10	07/23/2015 08:11	SubList=GC - RSKMEE+ACET (07-22-15)

WORK ORDER

Printed: 7/27/2015 1:42:44PM

1507060

Liberty Analytical

Client:	**SOLUTIONS-IES, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**EATON SELMA-2013.0014.EATN/4**	**Project Number:**	**EATON SELMA-2013.0014.EATN/4**
SDG:	**1507060** **CASE:**	**Status:**	**Batched**

Date Due:	08/05/2015 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	07/23/2015 16:30
Logged In By:	Cathy Dover	Date Logged In:	07/22/2015 09:20

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 2 E-mail Only**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**	REG Limits: **NCAC 2L**	

NC CRITERIA*LCS/LCSD*VOA 8260B=TCL4*RSK175=MEE+ acetylene*IC 300=NO3/SO4*ALK*TOC SM5310B*TKP/TKN*SULFIDE*6010C= Mg ONLY*FERROUS IRON (TAKE pH AND RECORD ON BENCH SHEET).Use dilution option & Alpha sort in custom report for final pdf.

Analysis	Due	TAT	Expires	Received	Comments
1507060-20 TRIP BLANK2 [Water] Sampled 07/22/2015 00:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/05/2015 00:00	07/23/2015 08:11	SubList=VOA- TCL4 (05-27-15)
1507060-21 MW-13 [Water] Sampled 07/23/2015 10:10 Eastern					
TTL ORGNC CRBN (TOC) SM5310B	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -TOC SM5310B (08-1
FERROUS IRON 3500-FE B WATER	08/05/2015 16:00	13	08/16/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -FERROUS IRON (08
GC-RSK-175	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=GC - RSKMEE+ACET (07-22-15)
IC 300 Anions	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
SULFIDE SM4500S-2-F WATER	08/05/2015 16:00	13	07/30/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -SULFIDE (08-14-14)
ALKALINITY 310.2	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList(NCAC 2L)=WC -ALK (08-14-14)
TTL KJELDAHL NITRN (TKN) 351.2	08/05/2015 16:00	13	08/20/2015 10:10	07/23/2015 16:30	
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:10	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
6010C METALS	08/05/2015 16:00	13	01/19/2016 10:10	07/23/2015 16:30	
1507060-22 MW-7 [Water] Sampled 07/23/2015 09:30 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 09:30	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-23 IDW-1 [Water] Sampled 07/23/2015 10:00 Eastern					
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 10:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)
1507060-24 TB-3 [Water] Sampled 07/23/2015 00:00 Eastern					**TRIP BLANK**
VOA-8260B 25ML	08/05/2015 16:00	13	08/06/2015 00:00	07/23/2015 16:30	SubList=VOA- TCL4 (05-27-15)

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Liberty Analytical **SDG:** 1507060

Client: SOLUTIONS-IES, INC. **Project:** EATON SELMA-2013.0014.EATN/4

Matrix: WATER **Instrument:** Buret

Analyte	MDL	RL	Units	Method
Sulfide, total	0.383	1.00	mg/L	SM4500S-2-F

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Liberty Analytical **SDG:** 1507060

Client: SOLUTIONS-IES, INC. **Project:** EATON SELMA-2013.0014.EATN/4

Matrix: WATER **Instrument:** LACHATC2

Analyte	MDL	RL	Units	Method
Total Kjeldahl Nitrogen	0.154	0.250	mg/L	EPA 351.2
Alkalinity	1.09	10.0	mg/L	EPA 310.2
Phosphorus-Total	0.111	0.250	mg/L	EPA 365.4

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Liberty Analytical **SDG:** 1507060

Client: SOLUTIONS-IES, INC. **Project:** EATON SELMA-2013.0014.EATN/4

Matrix: WATER **Instrument:** Omnion Prime

Analyte	MDL	RL	Units	Method
Nitrate as N	0.00518	0.0500	mg/L	EPA 300.0
Sulfate as SO4	0.109	1.00	mg/L	EPA 300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Liberty Analytical **SDG:** 1507060

Client: SOLUTIONS-IES, INC. **Project:** EATON SELMA-2013.0014.EATN/4

Matrix: WATER **Instrument:** Shimadzu TOC

Analyte	MDL	RL	Units	Method
Total Organic Carbon	0.251	1.00	mg/L	SM5310B

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Liberty Analytical **SDG:** 1507060

Client: SOLUTIONS-IES, INC. **Project:** EATON SELMA-2013.0014.EATN/4

Matrix: WATER **Instrument:** Spec 21D

Analyte	MDL	RL	Units	Method
Ferrous Iron	0.0339	0.400	mg/L	SM3500-FE-B

LCS / LCS DUPLICATE SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072104-BS1 Matrix: Water Client ID: WLCSFA Batch: 5072104

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Nitrate as N	2.500	2.55	102		90 - 110
Sulfate as SO4	60.00	59.2	99		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072104-BSD1 Matrix: Water Client ID: WLCSDFA Batch: 5072104

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Nitrate as N	2.500	2.49	100	2	20		90 - 110
Sulfate as SO4	60.00	59.9	100	1	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072203-BS1 Matrix: Water Client ID: WLCSES Batch: 5072203

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Ferrous Iron	1.200	1.23	103		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072203-BSD1 Matrix: Water Client ID: WLCSDES Batch: 5072203

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Ferrous Iron	1.200	1.24	103	0.810	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072307-BS1 Matrix: Water Client ID: WLCSEG Batch: 5072307

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Alkalinity	35.00	34.5	98.5		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072307-BSD1 Matrix: Water Client ID: WLCSDEG Batch: 5072307

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Alkalinity	35.00	35.1	100	1.91	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072308-BS1 Matrix: Water Client ID: WLCSGJ Batch: 5072308

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Ferrous Iron	1.200	1.22	102		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072308-BSD1 Matrix: Water Client ID: WLCSDGJ Batch: 5072308

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Ferrous Iron	1.200	1.21	101	0.823	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072311-BS1 Matrix: Water Client ID: WLCSGK Batch: 5072311

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Nitrate as N	2.500	2.55	102		90 - 110
Sulfate as SO4	60.00	59.6	99		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072311-BSD1 Matrix: Water Client ID: WLCSDGK Batch: 5072311

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Nitrate as N	2.500	2.55	102	0	20		90 - 110
Sulfate as SO4	60.00	60.0	100	0.7	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM4500S-2-F

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072316-BS1 Matrix: Water Client ID: WLCSKM Batch: 5072316

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Sulfide, total	10.00	10.8	108		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

SM4500S-2-F

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072316-BSD1 Matrix: Water Client ID: WLCSDKM Batch: 5072316

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Sulfide, total	10.00	10.8	108	0.00	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072405-BS1 Matrix: Water Client ID: WLCSBW Batch: 5072405

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Alkalinity	35.00	36.2	104		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072405-BSD1 Matrix: Water Client ID: WLCSDBW Batch: 5072405

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Alkalinity	35.00	35.1	100	3.20	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072406-BS1 Matrix: Water Client ID: WLCSYH Batch: 5072406

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Ferrous Iron	1.200	1.25	104		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072406-BSD1 Matrix: Water Client ID: WLCSDYH Batch: 5072406

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Ferrous Iron	1.200	1.25	104	0.00	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

EPA 351.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072409-BS1 Matrix: Water Client ID: WLCSBX Batch: 5072409

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Total Kjeldahl Nitrogen	3.000	3.15	105		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

EPA 351.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072409-BSD1 Matrix: Water Client ID: WLCSDBX Batch: 5072409

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Total Kjeldahl Nitrogen	3.000	3.18	106	0.948	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072411-BS1 Matrix: Water Client ID: WLCSBZ Batch: 5072411

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Nitrate as N	2.500	2.51	100		90 - 110
Sulfate as SO4	60.00	58.4	97		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072411-BSD1 Matrix: Water Client ID: WLCSDBZ Batch: 5072411

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Nitrate as N	2.500	2.53	101	1	20		90 - 110
Sulfate as SO4	60.00	57.9	97	0.9	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072413-BS1 Matrix: Water Client ID: WLCSKG Batch: 5072413

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Total Organic Carbon	75.00	71.9	95.9		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072413-BSD1 Matrix: Water Client ID: WLCSDKG Batch: 5072413

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Total Organic Carbon	75.00	73.0	97.4	1.56	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072702-BS1 Matrix: Water Client ID: WLCSAA Batch: 5072702

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Total Organic Carbon	75.00	75.0	99.9		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072702-BSD1 Matrix: Water Client ID: WLCSDAA Batch: 5072702

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Total Organic Carbon	75.00	75.4	101	0.599	20		90 - 110

LCS / LCS DUPLICATE SUMMARY

EPA 365.4

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073002-BS1 Matrix: Water Client ID: WLCSVG Batch: 5073002

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	Q	QC LIMITS REC.
Phosphorus-Total	3.000	2.84	94.6		90 - 110

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

LCS / LCS DUPLICATE SUMMARY

EPA 365.4

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073002-BSD1 Matrix: Water Client ID: WLCSDVG Batch: 5073002

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Phosphorus-Total	3.000	2.82	94.0	0.685	20		90 - 110

PREPARATION BATCH SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072104 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/22/15 09:27	10.0	10.0
MW-2	1507060-02	07/22/15 09:27	10.0	10.0
MW-3	1507060-03	07/22/15 09:27	10.0	10.0
MW-8	1507060-04	07/22/15 09:27	10.0	10.0
MW-18	1507060-05RE1	07/22/15 09:27	10.0	10.0
PBFA	5072104-BLK1	07/22/15 09:27	10.0	10.0
WLCSFA	5072104-BS1	07/22/15 09:27	10.0	10.0
WLCSDFA	5072104-BSD1	07/22/15 09:27	10.0	10.0

Liberty Analytical

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PREPARATION BATCH SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072203 Matrix: Water Preparation: SM 3500-FE-B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/22/15 10:40	25.0	25.0
MW-2	1507060-02RE2	07/22/15 10:40	25.0	25.0
MW-3	1507060-03RE1	07/22/15 10:40	25.0	25.0
MW-8	1507060-04RE2	07/22/15 10:40	25.0	25.0
MW-18	1507060-05	07/22/15 10:40	25.0	25.0
PBES	5072203-BLK1	07/22/15 10:40	25.0	25.0
WLCSES	5072203-BS1	07/22/15 10:40	25.0	25.0
WLCSDES	5072203-BSD1	07/22/15 10:40	25.0	25.0

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PREPARATION BATCH SUMMARY

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072307 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/23/15 11:49	10.0	10.0
MW-2	1507060-02RE1	07/23/15 11:49	10.0	10.0
MW-3	1507060-03	07/23/15 11:49	10.0	10.0
MW-8	1507060-04RE1	07/23/15 11:49	10.0	10.0
MW-18	1507060-05	07/23/15 11:49	10.0	10.0
MW-5	1507060-08	07/23/15 11:49	10.0	10.0
MW-14	1507060-09RE1	07/23/15 11:49	10.0	10.0
MW-4	1507060-10	07/23/15 11:49	10.0	10.0
MW-19	1507060-11	07/23/15 11:49	10.0	10.0
MW-11	1507060-12	07/23/15 11:49	10.0	10.0
MW-9	1507060-13	07/23/15 11:49	10.0	10.0
MW-20	1507060-14RE1	07/23/15 11:49	10.0	10.0
MW-17	1507060-15RE1	07/23/15 11:49	10.0	10.0
MW-15	1507060-16RE1	07/23/15 11:49	10.0	10.0
MW-16	1507060-17RE1	07/23/15 11:49	10.0	10.0
PBEG	5072307-BLK1	07/23/15 11:49	10.0	10.0
WLCSEG	5072307-BS1	07/23/15 11:49	10.0	10.0
WLCSDEG	5072307-BSD1	07/23/15 11:49	10.0	10.0

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PREPARATION BATCH SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072308 Matrix: Water Preparation: SM 3500-FE-B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-5	1507060-08	07/23/15 10:15	25.0	25.0
MW-14	1507060-09	07/23/15 10:15	25.0	25.0
MW-4	1507060-10	07/23/15 10:15	25.0	25.0
MW-19	1507060-11RE1	07/23/15 10:15	25.0	25.0
MW-11	1507060-12	07/23/15 10:15	25.0	25.0
MW-9	1507060-13	07/23/15 10:15	25.0	25.0
MW-20	1507060-14RE1	07/23/15 10:15	25.0	25.0
MW-17	1507060-15RE1	07/23/15 10:15	25.0	25.0
MW-15	1507060-16	07/23/15 10:15	25.0	25.0
MW-16	1507060-17RE1	07/23/15 10:15	25.0	25.0
PBGJ	5072308-BLK1	07/23/15 10:15	25.0	25.0
WLCSGJ	5072308-BS1	07/23/15 10:15	25.0	25.0
WLCSDGJ	5072308-BSD1	07/23/15 10:15	25.0	25.0

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PREPARATION BATCH SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072311 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-5	1507060-08	07/23/15 13:05	10.0	10.0
MW-14	1507060-09	07/23/15 13:05	10.0	10.0
MW-4	1507060-10	07/23/15 13:05	10.0	10.0
MW-19	1507060-11	07/23/15 13:05	10.0	10.0
MW-11	1507060-12	07/23/15 13:05	10.0	10.0
MW-9	1507060-13	07/23/15 13:05	10.0	10.0
MW-20	1507060-14	07/23/15 13:05	10.0	10.0
MW-17	1507060-15	07/23/15 13:05	10.0	10.0
MW-15	1507060-16	07/23/15 13:05	10.0	10.0
MW-16	1507060-17	07/23/15 13:05	10.0	10.0
IW-2A	1507060-18	07/23/15 13:05	10.0	10.0
IW-42B	1507060-19	07/23/15 13:05	10.0	10.0
MW-13	1507060-21	07/23/15 13:05	10.0	10.0
PBGK	5072311-BLK1	07/23/15 13:05	10.0	10.0
WLCSGK	5072311-BS1	07/23/15 13:05	10.0	10.0
WLCSDGK	5072311-BSD1	07/23/15 13:05	10.0	10.0

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PREPARATION BATCH SUMMARY

SM4500S-2-F

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072316 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/23/15 14:28	200	200
MW-2	1507060-02	07/23/15 14:28	200	200
MW-3	1507060-03	07/23/15 14:28	200	200
MW-8	1507060-04	07/23/15 14:28	200	200
MW-18	1507060-05	07/23/15 14:28	200	200
MW-5	1507060-08	07/23/15 14:28	200	200
MW-14	1507060-09	07/23/15 14:28	200	200
MW-4	1507060-10	07/23/15 14:28	200	200
MW-19	1507060-11	07/23/15 14:28	200	200
MW-11	1507060-12	07/23/15 14:28	200	200
MW-9	1507060-13	07/23/15 14:28	200	200
MW-20	1507060-14	07/23/15 14:28	200	200
MW-17	1507060-15	07/23/15 14:28	200	200
MW-15	1507060-16	07/23/15 14:28	200	200
MW-16	1507060-17	07/23/15 14:28	200	200
IW-2A	1507060-18	07/23/15 14:28	200	200
IW-42B	1507060-19	07/23/15 14:28	200	200
MW-13	1507060-21	07/23/15 14:28	200	200
PBKM	5072316-BLK1	07/23/15 14:28	200	200
WLCSKM	5072316-BS1	07/23/15 14:28	200	200
WLCSDKM	5072316-BSD1	07/23/15 14:28	200	200

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PREPARATION BATCH SUMMARY

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072405 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-13	1507060-21	07/24/15 09:47	10.0	10.0
PBBW	5072405-BLK1	07/24/15 09:47	10.0	10.0
WLCSBW	5072405-BS1	07/24/15 09:47	10.0	10.0
WLCSDBW	5072405-BSD1	07/24/15 09:47	10.0	10.0

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PREPARATION BATCH SUMMARY

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072406 Matrix: Water Preparation: SM 3500-FE-B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-13	1507060-21	07/24/15 10:21	25.0	25.0
PBYH	5072406-BLK1	07/24/15 10:21	25.0	25.0
WLCSYH	5072406-BS1	07/24/15 10:21	25.0	25.0
WLCSDYH	5072406-BSD1	07/24/15 10:21	25.0	25.0

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PREPARATION BATCH SUMMARY

EPA 351.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072409 Matrix: Water Preparation: EPA 351.2

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/27/15 10:25	20.0	20.0
MW-2	1507060-02	07/27/15 10:25	20.0	20.0
MW-3	1507060-03RE2	07/27/15 10:25	20.0	20.0
MW-8	1507060-04	07/27/15 10:25	20.0	20.0
MW-18	1507060-05RE1	07/27/15 10:25	20.0	20.0
MW-5	1507060-08RE1	07/27/15 10:25	20.0	20.0
MW-14	1507060-09	07/27/15 10:25	20.0	20.0
MW-4	1507060-10RE1	07/27/15 10:25	20.0	20.0
MW-19	1507060-11RE1	07/27/15 10:25	20.0	20.0
MW-11	1507060-12	07/27/15 10:25	20.0	20.0
MW-9	1507060-13	07/27/15 10:25	20.0	20.0
MW-20	1507060-14RE1	07/27/15 10:25	20.0	20.0
MW-17	1507060-15	07/27/15 10:25	20.0	20.0
MW-15	1507060-16	07/27/15 10:25	20.0	20.0
MW-16	1507060-17	07/27/15 10:25	20.0	20.0
IW-2A	1507060-18	07/27/15 10:25	20.0	20.0
IW-42B	1507060-19	07/27/15 10:25	20.0	20.0
MW-13	1507060-21	07/27/15 10:25	20.0	20.0
PBBX	5072409-BLK1	07/27/15 10:24	20.0	20.0
WLCSBX	5072409-BS1	07/27/15 10:24	20.0	20.0
WLCSDBX	5072409-BSD1	07/27/15 10:24	20.0	20.0

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PREPARATION BATCH SUMMARY

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072411 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-3	1507060-03RE1	07/24/15 13:30	10.0	10.0
MW-18	1507060-05RE2	07/24/15 13:30	10.0	10.0
MW-5	1507060-08RE1	07/24/15 13:30	10.0	10.0
MW-5	1507060-08RE2	07/24/15 13:30	10.0	10.0
MW-4	1507060-10RE1	07/24/15 13:30	10.0	10.0
MW-4	1507060-10RE2	07/24/15 13:30	10.0	10.0
MW-19	1507060-11RE1	07/24/15 13:30	10.0	10.0
PBBZ	5072411-BLK1	07/24/15 13:30	10.0	10.0
WLCSBZ	5072411-BS1	07/24/15 13:30	10.0	10.0
WLCSDBZ	5072411-BSD1	07/24/15 13:30	10.0	10.0

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PREPARATION BATCH SUMMARY

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072413 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-1	1507060-01	07/24/15 17:13	40.0	40.0
MW-3	1507060-03	07/24/15 17:13	40.0	40.0
MW-18	1507060-05	07/24/15 17:13	40.0	40.0
MW-5	1507060-08	07/24/15 17:13	40.0	40.0
MW-14	1507060-09	07/24/15 17:13	40.0	40.0
MW-4	1507060-10	07/24/15 17:13	40.0	40.0
MW-19	1507060-11	07/24/15 17:13	40.0	40.0
MW-11	1507060-12	07/24/15 17:13	40.0	40.0
MW-9	1507060-13	07/24/15 17:13	40.0	40.0
MW-20	1507060-14	07/24/15 17:13	40.0	40.0
MW-15	1507060-16	07/24/15 17:13	40.0	40.0
IW-42B	1507060-19	07/24/15 17:13	40.0	40.0
MW-13	1507060-21	07/24/15 17:13	40.0	40.0
PBKG	5072413-BLK1	07/24/15 17:13	40.0	40.0
WLCSKG	5072413-BS1	07/24/15 17:13	40.0	40.0
WLCSDKG	5072413-BSD1	07/24/15 17:13	40.0	40.0

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PREPARATION BATCH SUMMARY

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5072702 Matrix: Water Preparation: Default Prep WC

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-2	1507060-02RE1	07/27/15 11:01	40.0	40.0
MW-8	1507060-04RE1	07/27/15 11:01	40.0	40.0
MW-17	1507060-15RE1	07/27/15 11:01	40.0	40.0
MW-16	1507060-17RE1	07/27/15 11:01	40.0	40.0
IW-2A	1507060-18RE1	07/27/15 11:01	40.0	40.0
PBAA	5072702-BLK1	07/27/15 11:01	40.0	40.0
WLCSAA	5072702-BS1	07/27/15 11:01	40.0	40.0
WLCSDAA	5072702-BSD1	07/27/15 11:01	40.0	40.0

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PREPARATION BATCH SUMMARY

EPA 365.4

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Batch: 5073002 Matrix: Water Preparation: EPA 365.4

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
MW-3	1507060-03RE1	07/30/15 08:20	20.0	20.0
IW-2A	1507060-18RE1	07/30/15 08:20	20.0	20.0
IW-42B	1507060-19RE1	07/30/15 08:20	20.0	20.0
PBVG	5073002-BLK1	07/30/15 08:20	20.0	20.0
WLCSVG	5073002-BS1	07/30/15 08:20	20.0	20.0
WLCSDVG	5073002-BSD1	07/30/15 08:20	20.0	20.0

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ANALYSIS DATA SHEET

MW-1

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-01 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	8.55	1.09	10.0		1	J	EPA 310.2	5G23006	7/23/15 12:18
FEFERROUS	Ferrous Iron		0.0339	0.400		1	U	SM3500-FE-B	5G22006	7/22/15 11:42
14797-55-8	Nitrate as N	0.254	0.00518	0.0500	10	1		EPA 300.0	5G23001	7/22/15 18:36
14808-79-8	Sulfate as SO4	0.266	0.109	1.00	250	1	J	EPA 300.0	5G23001	7/22/15 18:36
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 16:35
TKN	Total Kjeldahl Nitrogen		0.154	0.250		1	U	EPA 351.2	5G27012	7/29/15 8:28
TOC	Total Organic Carbon	0.457	0.251	1.00		1	J	SM5310B	5G24006	7/24/15 19:16

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-02 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	701	21.8	200		20	D	EPA 310.2	5G23006	7/23/15 12:36
FEFERROUS	Ferrous Iron	196	6.78	80.0		200	D	SM3500-FE-B	5G22006	7/22/15 12:47
14797-55-8	Nitrate as N	0.237	0.00518	0.0500	10	1		EPA 300.0	5G23001	7/22/15 18:52
14808-79-8	Sulfate as SO4	0.383	0.109	1.00	250	1	J	EPA 300.0	5G23001	7/22/15 18:52
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 16:37
TKN	Total Kjeldahl Nitrogen	0.805	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:29
TOC	Total Organic Carbon	175	0.502	2.00		2	D	SM5310B	5G27002	7/27/15 13:06

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-3

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-03 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	7.04	1.09	10.0		1	J	EPA 310.2	5G23006	7/23/15 12:20
FEFERROUS	Ferrous Iron	48.7	0.847	10.0		25	D	SM3500-FE-B	5G22006	7/22/15 12:24
14797-55-8	Nitrate as N	0.134	0.00518	0.0500	10	1		EPA 300.0	5G23001	7/22/15 19:42
14808-79-8	Sulfate as SO4	1050	2.73	25.0	250	25	D	EPA 300.0	5G27005	7/24/15 18:14
18496-25-8	Sulfide, total	26.8	0.383	1.00		1		SM4500S-2-F	5G23013	7/23/15 16:40
TKN	Total Kjeldahl Nitrogen	6.48	0.308	0.500		2	D	EPA 351.2	5G27012	7/29/15 8:53
TOC	Total Organic Carbon	30.6	0.251	1.00		1		SM5310B	5G24006	7/24/15 19:34
7723-14-0	Phosphorus-Total	0.131	0.111	0.250		1	J	EPA 365.4	5H06007	8/6/15 13:42

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-8

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-04 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	496	16.4	150		15	D	EPA 310.2	5G23006	7/23/15 12:37
FEFERROUS	Ferrous Iron	144	3.39	40.0		100	D	SM3500-FE-B	5G22006	7/22/15 12:48
14797-55-8	Nitrate as N	0.00780	0.00518	0.0500	10	1	J	EPA 300.0	5G23001	7/22/15 19:59
14808-79-8	Sulfate as SO4	0.410	0.109	1.00	250	1	J	EPA 300.0	5G23001	7/22/15 19:59
18496-25-8	Sulfide, total	0.400	0.383	1.00		1	J	SM4500S-2-F	5G23013	7/23/15 16:56
TKN	Total Kjeldahl Nitrogen	0.366	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:31
TOC	Total Organic Carbon	334	1.26	5.00		5	D	SM5310B	5G27002	7/27/15 13:15

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-18

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-05 % Solid: Matrix: Water Sampled: 07/21/15 Received: 07/22/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity		1.09	10.0		1	U	EPA 310.2	5G23006	7/23/15 12:22
FEFERROUS	Ferrous Iron	0.240	0.0339	0.400		1	J	SM3500-FE-B	5G22006	7/22/15 12:01
14797-55-8	Nitrate as N	6.14	0.0104	0.100	10	2	D	EPA 300.0	5G24001	7/23/15 13:22
14808-79-8	Sulfate as SO4	2240	5.45	50.0	250	50	D	EPA 300.0	5G27005	7/24/15 18:31
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 16:58
TKN	Total Kjeldahl Nitrogen	11.3	0.462	0.750		3	D	EPA 351.2	5G27012	7/29/15 8:48
TOC	Total Organic Carbon	7.07	0.251	1.00		1		SM5310B	5G24006	7/24/15 19:52

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-5

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-08 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	6.18	1.09	10.0		1	J	EPA 310.2	5G23006	7/23/15 12:23
FEFERROUS	Ferrous Iron		0.0339	0.400		1	U	SM3500-FE-B	5G23005	7/23/15 10:57
14797-55-8	Nitrate as N	14.4	0.00518	0.0500	10	1	E	EPA 300.0	5G24001	7/23/15 15:35
14797-55-8	Nitrate as N	11.1	0.0259	0.250	10	5	D	EPA 300.0	5G27005	7/24/15 13:32
14808-79-8	Sulfate as SO4	1360	5.45	50.0	250	50	D	EPA 300.0	5G27005	7/24/15 18:48
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 17:00
TKN	Total Kjeldahl Nitrogen	4.30	0.308	0.500		2	D	EPA 351.2	5G29015	7/29/15 17:49
TOC	Total Organic Carbon	6.28	0.251	1.00		1		SM5310B	5G24006	7/24/15 20:26

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-14

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-09 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	341	10.9	100		10	D	EPA 310.2	5G23006	7/23/15 12:40
FEFERROUS	Ferrous Iron	0.290	0.0339	0.400		1	J	SM3500-FE-B	5G23005	7/23/15 10:58
14797-55-8	Nitrate as N	0.0136	0.00518	0.0500	10	1	J	EPA 300.0	5G24001	7/23/15 15:51
14808-79-8	Sulfate as SO4	11.3	0.109	1.00	250	1		EPA 300.0	5G24001	7/23/15 15:51
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 17:03
TKN	Total Kjeldahl Nitrogen	0.905	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:33
TOC	Total Organic Carbon	3.29	0.251	1.00		1		SM5310B	5G24006	7/24/15 20:34

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-4

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-10 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity		1.09	10.0		1	U	EPA 310.2	5G23006	7/23/15 12:27
FEFERROUS	Ferrous Iron	0.120	0.0339	0.400		1	J	SM3500-FE-B	5G23005	7/23/15 10:59
14797-55-8	Nitrate as N	13.1	0.00518	0.0500	10	1	E	EPA 300.0	5G24001	7/23/15 16:41
14797-55-8	Nitrate as N	10.4	0.0259	0.250	10	5	D	EPA 300.0	5G27005	7/24/15 13:48
14808-79-8	Sulfate as SO4	4590	109	1000	250	1000	D	EPA 300.0	5G27005	7/24/15 19:04
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 17:15
TKN	Total Kjeldahl Nitrogen	11.0	0.462	0.750		3	D	EPA 351.2	5G27012	7/29/15 8:49
TOC	Total Organic Carbon	8.12	0.251	1.00		1		SM5310B	5G24006	7/24/15 20:43

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-19

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-11 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity		1.09	10.0		1	U	EPA 310.2	5G23006	7/23/15 12:29
FEFERROUS	Ferrous Iron	80.5	1.69	20.0		50	D	SM3500-FE-B	5G23005	7/23/15 11:52
14797-55-8	Nitrate as N	0.108	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/23/15 16:58
14808-79-8	Sulfate as SO4	4270	109	1000	250	1000	D	EPA 300.0	5G27005	7/24/15 19:21
18496-25-8	Sulfide, total	14.4	0.383	1.00		1		SM4500S-2-F	5G23013	7/23/15 17:18
TKN	Total Kjeldahl Nitrogen	14.6	0.770	1.25		5	D	EPA 351.2	5G27012	7/29/15 8:50
TOC	Total Organic Carbon	53.8	0.251	1.00		1		SM5310B	5G24006	7/24/15 20:52

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-11

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-12 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	21.5	1.09	10.0		1		EPA 310.2	5G23006	7/23/15 12:30
FEFERROUS	Ferrous Iron	1.07	0.0339	0.400		1		SM3500-FE-B	5G23005	7/23/15 11:02
14797-55-8	Nitrate as N	0.0503	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/23/15 17:14
14808-79-8	Sulfate as SO4	5.66	0.109	1.00	250	1		EPA 300.0	5G24001	7/23/15 17:14
18496-25-8	Sulfide, total	0.400	0.383	1.00		1	J	SM4500S-2-F	5G23013	7/23/15 17:20
TKN	Total Kjeldahl Nitrogen	0.670	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:38
TOC	Total Organic Carbon	4.96	0.251	1.00		1		SM5310B	5G24006	7/24/15 21:01

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-9

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-13 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	12.8	1.09	10.0		1		EPA 310.2	5G23006	7/23/15 12:31
FEFERROUS	Ferrous Iron	0.860	0.0339	0.400		1		SM3500-FE-B	5G23005	7/23/15 11:24
14797-55-8	Nitrate as N	0.697	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/23/15 17:31
14808-79-8	Sulfate as SO4	18.7	0.109	1.00	250	1		EPA 300.0	5G24001	7/23/15 17:31
18496-25-8	Sulfide, total	0.400	0.383	1.00		1	J	SM4500S-2-F	5G23013	7/23/15 17:22
TKN	Total Kjeldahl Nitrogen	0.339	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:38
TOC	Total Organic Carbon	0.488	0.251	1.00		1	J	SM5310B	5G24006	7/24/15 21:09

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-20

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-14 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	436	16.4	150		15	D	EPA 310.2	5G23006	7/23/15 12:41
FEFERROUS	Ferrous Iron	76.0	1.69	20.0		50	D	SM3500-FE-B	5G23005	7/23/15 11:53
14797-55-8	Nitrate as N	0.0586	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/23/15 17:48
14808-79-8	Sulfate as SO4	86.9	0.109	1.00	250	1		EPA 300.0	5G24001	7/23/15 17:48
18496-25-8	Sulfide, total	0.400	0.383	1.00		1	J	SM4500S-2-F	5G23013	7/23/15 17:34
TKN	Total Kjeldahl Nitrogen	5.32	0.308	0.500		2	D	EPA 351.2	5G29015	7/29/15 17:50
TOC	Total Organic Carbon	8.02	0.251	1.00		1		SM5310B	5G24006	7/24/15 21:19

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-17

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-15 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	523	16.4	150		15	D	EPA 310.2	5G23006	7/23/15 12:42
FEFERROUS	Ferrous Iron	152	3.39	40.0		100	D	SM3500-FE-B	5G23005	7/23/15 11:54
14797-55-8	Nitrate as N	0.0744	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/23/15 18:04
14808-79-8	Sulfate as SO4	0.323	0.109	1.00	250	1	J	EPA 300.0	5G24001	7/23/15 18:04
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 17:36
TKN	Total Kjeldahl Nitrogen	1.46	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:40
TOC	Total Organic Carbon	143	0.502	2.00		2	D	SM5310B	5G27002	7/27/15 13:25

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

MW-15

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-16 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	111	3.27	30.0		3	D	EPA 310.2	5G23006	7/23/15 12:43
FEFERROUS	Ferrous Iron	0.940	0.0339	0.400		1		SM3500-FE-B	5G23005	7/23/15 11:48
14797-55-8	Nitrate as N	0.275	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/23/15 18:21
14808-79-8	Sulfate as SO4	4.93	0.109	1.00	250	1		EPA 300.0	5G24001	7/23/15 18:21
18496-25-8	Sulfide, total	0.400	0.383	1.00		1	J	SM4500S-2-F	5G23013	7/23/15 17:38
TKN	Total Kjeldahl Nitrogen	0.177	0.154	0.250		1	J	EPA 351.2	5G27012	7/29/15 8:41
TOC	Total Organic Carbon	0.907	0.251	1.00		1	J	SM5310B	5G24006	7/24/15 21:37

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

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ANALYSIS DATA SHEET

MW-16

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-17 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	856	21.8	200		20	D	EPA 310.2	5G23006	7/23/15 12:44
FEFERROUS	Ferrous Iron	247	6.78	80.0		200	D	SM3500-FE-B	5G23005	7/23/15 12:00
14797-55-8	Nitrate as N		0.00518	0.0500	10	1	U	EPA 300.0	5G24001	7/23/15 18:37
14808-79-8	Sulfate as SO4	0.278	0.109	1.00	250	1	J	EPA 300.0	5G24001	7/23/15 18:37
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 17:39
TKN	Total Kjeldahl Nitrogen	1.09	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:42
TOC	Total Organic Carbon	410	1.26	5.00		5	D	SM5310B	5G27002	7/27/15 13:35

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

NC2L - 15A NCAC 02L .0202

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ANALYSIS DATA SHEET

IW-2A

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-18 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N		0.00518	0.0500	10	1	U	EPA 300.0	5G24001	7/23/15 18:54
14808-79-8	Sulfate as SO4	0.313	0.109	1.00	250	1	J	EPA 300.0	5G24001	7/23/15 18:54
18496-25-8	Sulfide, total		0.383	1.00		1	U	SM4500S-2-F	5G23013	7/23/15 17:50
TKN	Total Kjeldahl Nitrogen	1.98	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:43
TOC	Total Organic Carbon	495	2.51	10.0		10	D	SM5310B	5G27002	7/27/15 13:44
7723-14-0	Phosphorus-Total	0.685	0.111	0.250		1		EPA 365.4	5H06007	8/6/15 13:43

NC2L - 15A NCAC 02L .0202

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IW-42B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-19 % Solid: Matrix: Water Sampled: 07/22/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	0.0566	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/23/15 19:11
14808-79-8	Sulfate as SO4	2.68	0.109	1.00	250	1		EPA 300.0	5G24001	7/23/15 19:11
18496-25-8	Sulfide, total	0.600	0.383	1.00		1	J	SM4500S-2-F	5G23013	7/23/15 17:52
TKN	Total Kjeldahl Nitrogen	2.05	0.154	0.250		1		EPA 351.2	5G27012	7/29/15 8:44
TOC	Total Organic Carbon	67.3	0.251	1.00		1		SM5310B	5G24006	7/24/15 22:29
7723-14-0	Phosphorus-Total	1.10	0.111	0.250		1		EPA 365.4	5H06007	8/6/15 13:44

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MW-13

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 1507060-21 % Solid: Matrix: Water Sampled: 07/23/15 Received: 07/23/15

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	NC2L	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	13.1	1.09	10.0		1		EPA 310.2	5G24003	7/24/15 10:24
FEFERROUS	Ferrous Iron	0.0400	0.0339	0.400		1	J	SM3500-FE-B	5G24002	7/24/15 11:16
14797-55-8	Nitrate as N	0.892	0.00518	0.0500	10	1		EPA 300.0	5G24001	7/24/15 0:10
14808-79-8	Sulfate as SO4	3.65	0.109	1.00	250	1		EPA 300.0	5G24001	7/24/15 0:10
18496-25-8	Sulfide, total	0.400	0.383	1.00		1	J	SM4500S-2-F	5G23013	7/23/15 17:54
TKN	Total Kjeldahl Nitrogen		0.154	0.250		1	U	EPA 351.2	5G27012	7/29/15 8:46
TOC	Total Organic Carbon	1.48	0.251	1.00		1		SM5310B	5G24006	7/24/15 22:37

Note: The analyzed data and time for TOC is actually the date and time of the first of the quadruplicate analyses.

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PBFA

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072104-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	0.00780	0.00518	0.0500	1	J	EPA 300.0	5G23001	7/22/15 14:26
14808-79-8	Sulfate as SO4	0.287	0.109	1.00	1	J	EPA 300.0	5G23001	7/22/15 14:26

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WLCSFA

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072104-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	2.55	0.00518	0.0500	1		EPA 300.0	5G23001	7/22/15 14:43
14808-79-8	Sulfate as SO4	59.2	0.109	1.00	1		EPA 300.0	5G23001	7/22/15 14:43

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WLCSDFA

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072104-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	2.49	0.00518	0.0500	1		EPA 300.0	5G23001	7/22/15 14:59
14808-79-8	Sulfate as SO4	59.9	0.109	1.00	1		EPA 300.0	5G23001	7/22/15 14:59

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ANALYSIS DATA SHEET

PBES

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072203-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron		0.0339	0.400	1	U	SM3500-FE-B	5G22006	7/22/15 11:38

ANALYSIS DATA SHEET

WLCSES

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072203-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron	1.23	0.0339	0.400	1		SM3500-FE-B	5G22006	7/22/15 11:39

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDES

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072203-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron	1.24	0.0339	0.400	1		SM3500-FE-B	5G22006	7/22/15 11:40

Liberty Analytical

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ANALYSIS DATA SHEET

PBEG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072307-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	1.52	1.09	10.0	1	J	EPA 310.2	5G23006	7/23/15 12:15

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSEG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072307-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	34.5	1.09	10.0	1		EPA 310.2	5G23006	7/23/15 12:16

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDEG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072307-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	35.1	1.09	10.0	1		EPA 310.2	5G23006	7/23/15 12:17

Liberty Analytical

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ANALYSIS DATA SHEET

PBGJ

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072308-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron		0.0339	0.400	1	U	SM3500-FE-B	5G23005	7/23/15 10:39

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSGJ

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072308-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron	1.22	0.0339	0.400	1		SM3500-FE-B	5G23005	7/23/15 10:40

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDGJ

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072308-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron	1.21	0.0339	0.400	1		SM3500-FE-B	5G23005	7/23/15 10:41

Liberty Analytical

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ANALYSIS DATA SHEET

PBGK

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072311-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	0.0159	0.00518	0.0500	1	J	EPA 300.0	5G24001	7/23/15 14:28
14808-79-8	Sulfate as SO4	0.265	0.109	1.00	1	J	EPA 300.0	5G24001	7/23/15 14:28

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSGK

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072311-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	2.55	0.00518	0.0500	1		EPA 300.0	5G24001	7/23/15 14:45
14808-79-8	Sulfate as SO4	59.6	0.109	1.00	1		EPA 300.0	5G24001	7/23/15 14:45

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDGK

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072311-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	2.55	0.00518	0.0500	1		EPA 300.0	5G24001	7/23/15 15:01
14808-79-8	Sulfate as SO4	60.0	0.109	1.00	1		EPA 300.0	5G24001	7/23/15 15:01

Liberty Analytical

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ANALYSIS DATA SHEET

PBKM

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072316-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
18496-25-8	Sulfide, total	0.600	0.383	1.00	1	J	SM4500S-2-F	5G23013	7/23/15 16:25

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSKM

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072316-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
18496-25-8	Sulfide, total	10.8	0.383	1.00	1		SM4500S-2-F	5G23013	7/23/15 16:28

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDKM

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072316-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
18496-25-8	Sulfide, total	10.8	0.383	1.00	1		SM4500S-2-F	5G23013	7/23/15 16:30

Liberty Analytical

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ANALYSIS DATA SHEET

PBBW

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072405-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	1.23	1.09	10.0	1	J	EPA 310.2	5G24003	7/24/15 10:20

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSBW

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072405-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	36.2	1.09	10.0	1		EPA 310.2	5G24003	7/24/15 10:21

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDBW

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072405-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
ALK	Alkalinity	35.1	1.09	10.0	1		EPA 310.2	5G24003	7/24/15 10:22

ANALYSIS DATA SHEET

PBYH

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072406-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron		0.0339	0.400	1	U	SM3500-FE-B	5G24002	7/24/15 11:13

ANALYSIS DATA SHEET

WLCSYH

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072406-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron	1.25	0.0339	0.400	1		SM3500-FE-B	5G24002	7/24/15 11:14

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDYH

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072406-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
FEFERROUS	Ferrous Iron	1.25	0.0339	0.400	1		SM3500-FE-B	5G24002	7/24/15 11:15

Liberty Analytical

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ANALYSIS DATA SHEET

PBBX

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072409-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TKN	Total Kjeldahl Nitrogen		0.154	0.250	1	U	EPA 351.2	5G27012	7/29/15 8:26

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSBX

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072409-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TKN	Total Kjeldahl Nitrogen	3.15	0.154	0.250	1		EPA 351.2	5G27012	7/29/15 8:27

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDBX

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072409-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TKN	Total Kjeldahl Nitrogen	3.18	0.154	0.250	1		EPA 351.2	5G27012	7/29/15 8:27

Liberty Analytical

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ANALYSIS DATA SHEET

PBBZ

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072411-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	0.0108	0.00518	0.0500	1	J	EPA 300.0	5G27005	7/24/15 14:05
14808-79-8	Sulfate as SO4	0.233	0.109	1.00	1	J	EPA 300.0	5G27005	7/24/15 14:05

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ANALYSIS DATA SHEET

WLCSBZ

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072411-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	2.51	0.00518	0.0500	1		EPA 300.0	5G27005	7/24/15 14:22
14808-79-8	Sulfate as SO4	58.4	0.109	1.00	1		EPA 300.0	5G27005	7/24/15 14:22

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDBZ

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072411-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
14797-55-8	Nitrate as N	2.53	0.00518	0.0500	1		EPA 300.0	5G27005	7/24/15 14:38
14808-79-8	Sulfate as SO4	57.9	0.109	1.00	1		EPA 300.0	5G27005	7/24/15 14:38

Liberty Analytical

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ANALYSIS DATA SHEET

PBKG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072413-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TOC	Total Organic Carbon		0.251	1.00	1	U	SM5310B	5G24006	7/24/15 18:47

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ANALYSIS DATA SHEET

WLCSKG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072413-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TOC	Total Organic Carbon	71.9	0.251	1.00	1		SM5310B	5G24006	7/24/15 18:58

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDKG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072413-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TOC	Total Organic Carbon	73.0	0.251	1.00	1		SM5310B	5G24006	7/24/15 19:07

Liberty Analytical

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ANALYSIS DATA SHEET

PBAA

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072702-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TOC	Total Organic Carbon	0.480	0.251	1.00	1	J	SM5310B	5G27002	7/27/15 12:37

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSAA

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072702-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TOC	Total Organic Carbon	75.0	0.251	1.00	1		SM5310B	5G27002	7/27/15 12:46

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDAA

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5072702-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
TOC	Total Organic Carbon	75.4	0.251	1.00	1		SM5310B	5G27002	7/27/15 12:56

Liberty Analytical

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ANALYSIS DATA SHEET

PBVG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073002-BLK1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7723-14-0	Phosphorus-Total		0.111	0.250	1	U	EPA 365.4	5H06007	8/6/15 13:38

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSVG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073002-BS1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7723-14-0	Phosphorus-Total	2.84	0.111	0.250	1		EPA 365.4	5H06007	8/6/15 13:39

Liberty Analytical

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ANALYSIS DATA SHEET

WLCSDVG

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Lab ID: 5073002-BSD1 Matrix: Water

CAS NO.	Analyte	Conc. (mg/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7723-14-0	Phosphorus-Total	2.82	0.111	0.250	1		EPA 365.4	5H06007	8/6/15 13:41

Liberty Analytical

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BLANKS

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G22006 Instrument ID: Spec 21D

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G22006-ICB1	Ferrous Iron	0.00	0.0339	0.400	mg/L	*U*	SM3500-FE-B
PBES	5072203-BLK1	Ferrous Iron		0.0339	0.400	mg/L	*U*	SM3500-FE-B
CCB	5G22006-CCB1	Ferrous Iron	0.0100	0.0339	0.400	mg/L	*U*	SM3500-FE-B
CCB	5G22006-CCB2	Ferrous Iron	0.00	0.0339	0.400	mg/L	*U*	SM3500-FE-B
CCB	5G22006-CCB3	Ferrous Iron	0.00	0.0339	0.400	mg/L	*U*	SM3500-FE-B

BLANKS

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G23001 Instrument ID: Omnion Prime

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G23001-ICB1	Nitrate as N	0.00780	0.00518	0.0500	mg/L	J	EPA 300.0
ICB	5G23001-ICB1	Sulfate as SO4	0.265	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G23001-CCB1	Nitrate as N	0.0168	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G23001-CCB1	Sulfate as SO4	0.267	0.109	1.00	mg/L	J	EPA 300.0
PBFA	5072104-BLK1	Nitrate as N	0.00780	0.00518	0.0500	mg/L	J	EPA 300.0
PBFA	5072104-BLK1	Sulfate as SO4	0.287	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G23001-CCB2	Nitrate as N	0.00780	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G23001-CCB2	Sulfate as SO4	0.264	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G23001-CCB3	Nitrate as N	0.00836	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G23001-CCB3	Sulfate as SO4	0.266	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G23001-CCB4	Nitrate as N	0.00780	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G23001-CCB4	Sulfate as SO4	0.284	0.109	1.00	mg/L	J	EPA 300.0

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BLANKS

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G23005 Instrument ID: Spec 21D

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G23005-ICB1	Ferrous Iron	-0.00100	0.0339	0.400	mg/L	*U*	SM3500-FE-B
PBGJ	5072308-BLK1	Ferrous Iron		0.0339	0.400	mg/L	*U*	SM3500-FE-B
CCB	5G23005-CCB1	Ferrous Iron	-0.0100	0.0339	0.400	mg/L	*U*	SM3500-FE-B
CCB	5G23005-CCB2	Ferrous Iron	-0.0100	0.0339	0.400	mg/L	*U*	SM3500-FE-B
CCB	5G23005-CCB3	Ferrous Iron	-0.0100	0.0339	0.400	mg/L	*U*	SM3500-FE-B

BLANKS

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G23006 Instrument ID: LACHATC2

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G23006-ICB1	Alkalinity	1.26	1.09	10.0	mg/L	*J*	EPA 310.2
CCB	5G23006-CCB1	Alkalinity	1.27	1.09	10.0	mg/L	*J*	EPA 310.2
PBEG	5072307-BLK1	Alkalinity	1.52	1.09	10.0	mg/L	*J*	EPA 310.2
CCB	5G23006-CCB2	Alkalinity	1.17	1.09	10.0	mg/L	*J*	EPA 310.2
CCB	5G23006-CCB3	Alkalinity	1.31	1.09	10.0	mg/L	*J*	EPA 310.2
CCB	5G23006-CCB4	Alkalinity	1.46	1.09	10.0	mg/L	*J*	EPA 310.2

BLANKS

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G24001 Instrument ID: Omnion Prime

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G24001-ICB1	Nitrate as N	0.0127	0.00518	0.0500	mg/L	J	EPA 300.0
ICB	5G24001-ICB1	Sulfate as SO4	0.258	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G24001-CCB1	Nitrate as N	0.0133	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G24001-CCB1	Sulfate as SO4	0.274	0.109	1.00	mg/L	J	EPA 300.0
PBGK	5072311-BLK1	Nitrate as N	0.0159	0.00518	0.0500	mg/L	J	EPA 300.0
PBGK	5072311-BLK1	Sulfate as SO4	0.265	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G24001-CCB2	Nitrate as N	0.0125	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G24001-CCB2	Sulfate as SO4	0.262	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G24001-CCB3	Nitrate as N	0.0132	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G24001-CCB3	Sulfate as SO4	0.275	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G24001-CCB4	Nitrate as N	0.0172	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G24001-CCB4	Sulfate as SO4	0.261	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G24001-CCB5	Nitrate as N	0.0135	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G24001-CCB5	Sulfate as SO4	0.294	0.109	1.00	mg/L	J	EPA 300.0

Liberty Analytical

ACCREDITED IN ACCORDANCE WITH nelac

BLANKS

SM3500-FE-B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G24002 Instrument ID: Spec 21D

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G24002-ICB1	Ferrous Iron	0.0100	0.0339	0.400	mg/L	*U*	SM3500-FE-B
PBYH	5072406-BLK1	Ferrous Iron		0.0339	0.400	mg/L	*U*	SM3500-FE-B
CCB	5G24002-CCB1	Ferrous Iron	0.0100	0.0339	0.400	mg/L	*U*	SM3500-FE-B

BLANKS

EPA 310.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G24003 Instrument ID: LACHATC2

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G24003-ICB1	Alkalinity	0.995	1.09	10.0	mg/L	*U*	EPA 310.2
CCB	5G24003-CCB1	Alkalinity	1.87	1.09	10.0	mg/L	*J*	EPA 310.2
PBBW	5072405-BLK1	Alkalinity	1.23	1.09	10.0	mg/L	*J*	EPA 310.2
CCB	5G24003-CCB2	Alkalinity	2.28	1.09	10.0	mg/L	*J*	EPA 310.2

BLANKS

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G24006 Instrument ID: Shimadzu TOC

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G24006-ICB1	Total Organic (	0.320	0.251	1.00	mg/L	*J*	SM5310B
CCB	5G24006-CCB1	Total Organic (	0.200	0.251	1.00	mg/L	*U*	SM5310B
PBKG	5072413-BLK1	Total Organic (		0.251	1.00	mg/L	*U*	SM5310B
CCB	5G24006-CCB2	Total Organic (	0.639	0.251	1.00	mg/L	*J*	SM5310B
CCB	5G24006-CCB3	Total Organic (	0.321	0.251	1.00	mg/L	*J*	SM5310B
CCB	5G24006-CCB4	Total Organic (	0.578	0.251	1.00	mg/L	*J*	SM5310B

BLANKS

SM5310B

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G27002 Instrument ID: Shimadzu TOC

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G27002-ICB1	Total Organic (	0.450	0.251	1.00	mg/L	*J*	SM5310B
CCB	5G27002-CCB1	Total Organic (	0.289	0.251	1.00	mg/L	*J*	SM5310B
PBAA	5072702-BLK1	Total Organic (	0.480	0.251	1.00	mg/L	*J*	SM5310B
CCB	5G27002-CCB2	Total Organic (	0.431	0.251	1.00	mg/L	*J*	SM5310B

BLANKS

EPA 300.0

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G27005 Instrument ID: Omnion Prime

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G27005-ICB1	Nitrate as N	0.0100	0.00518	0.0500	mg/L	J	EPA 300.0
ICB	5G27005-ICB1	Sulfate as SO4	0.229	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G27005-CCB1	Nitrate as N	0.0125	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G27005-CCB1	Sulfate as SO4	0.227	0.109	1.00	mg/L	J	EPA 300.0
PBBZ	5072411-BLK1	Nitrate as N	0.0108	0.00518	0.0500	mg/L	J	EPA 300.0
PBBZ	5072411-BLK1	Sulfate as SO4	0.233	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G27005-CCB2	Nitrate as N	0.0155	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G27005-CCB2	Sulfate as SO4	0.229	0.109	1.00	mg/L	J	EPA 300.0
CCB	5G27005-CCB3	Nitrate as N	0.0113	0.00518	0.0500	mg/L	J	EPA 300.0
CCB	5G27005-CCB3	Sulfate as SO4	0.253	0.109	1.00	mg/L	J	EPA 300.0

BLANKS

EPA 351.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G27012 Instrument ID: LACHATC2

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G27012-ICB1	Total Kjeldahl	-0.000286	0.154	0.250	mg/L	*U*	EPA 351.2
CCB	5G27012-CCB1	Total Kjeldahl	0.00655	0.154	0.250	mg/L	*U*	EPA 351.2
PBBX	5072409-BLK1	Total Kjeldahl		0.154	0.250	mg/L	*U*	EPA 351.2
CCB	5G27012-CCB2	Total Kjeldahl	-0.00215	0.154	0.250	mg/L	*U*	EPA 351.2
CCB	5G27012-CCB3	Total Kjeldahl	-0.00286	0.154	0.250	mg/L	*U*	EPA 351.2
CCB04	5G27012-CCB4	Total Kjeldahl	0.00883	0.154	0.250	mg/L	*U*	EPA 351.2

BLANKS

EPA 351.2

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5G29015 Instrument ID: LACHATC2

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5G29015-ICB1	Total Kjeldahl	-0.0823	0.154	0.250	mg/L	*U*	EPA 351.2
CCB	5G29015-CCB1	Total Kjeldahl	-0.0866	0.154	0.250	mg/L	*U*	EPA 351.2
CCB	5G29015-CCB2	Total Kjeldahl	-0.0924	0.154	0.250	mg/L	*U*	EPA 351.2

BLANKS

EPA 365.4

Client: SOLUTIONS-IES, INC. SDG: 1507060 Project: EATON SELMA-2013.0014.EATN/4

Sequence: 5H06007 Instrument ID: LACHATC2

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	5H06007-ICB1	Phosphorus-To	0.0442	0.111	0.250	mg/L	*U*	EPA 365.4
CCB	5H06007-CCB1	Phosphorus-To	0.0466	0.111	0.250	mg/L	*U*	EPA 365.4
PBVG	5073002-BLK1	Phosphorus-To		0.111	0.250	mg/L	*U*	EPA 365.4
CCB	5H06007-CCB2	Phosphorus-To	0.0460	0.111	0.250	mg/L	*U*	EPA 365.4

10515 Research Drive
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Phone: (865) 573-8188
Fax: (865) 573-8133

Client: Jody Overmyer
Solutions IES
1101 Nowell Road
Raleigh, NC 27607

Phone: 919.873.1060

Fax: 919.873.1074

Identifier: 065MG **Date Rec:** 07/22/2015 **Report Date:** 07/27/2015

Client Project #: 2013.0014 **Client Project Name:** Eaton Selma

Purchase Order #: 2013.0014

Analysis Requested: CENSUS

Reviewed By:

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MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville, TN 37932
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Solutions IES**
Project: Eaton Selma

MI Project Number: **065MG**
Date Received: 07/22/2015

Sample Information

Client Sample ID:	**MW-2**	**MW-3**	**MW-19**	**MW-4**	**MW-18**
Sample Date:	07/21/2015	07/21/2015	07/22/2015	07/22/2015	07/22/2015
Units:	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst:	JS	JS	JS	JS	JS

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**5.50E+00**	<5.00E-01	**8.50E+02**	**6.06E+02**	**2.20E+00**
tceA Reductase	TCE	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01	<5.00E-01	**3.18E+02**	**2.25E+02**	**1.70E+00**
Vinyl Chloride Reductase	VCR	<5.00E-01	<5.00E-01	**1.96E+01**	**1.22E+01**	<5.00E-01

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville, TN 37932
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Solutions IES**
Project: Eaton Selma

MI Project Number: **065MG**
Date Received: 07/22/2015

Sample Information

Client Sample ID:	**MW-16**	**IW-2A**	**IW-42B**
Sample Date:	07/22/2015	07/22/2015	07/22/2015
Units:	cells/mL	cells/mL	cells/mL
Analyst:	JS	JS	JS

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**1.96E+02**	**4.00E+04**	**3.36E+05**
tceA Reductase	TCE	<5.00E-01	**1.79E+03**	**1.52E+04**
BAV1 Vinyl Chloride Reductase	BVC	**2.68E+01**	**7.64E+01**	**1.47E+01**
Vinyl Chloride Reductase	VCR	**6.30E+00**	**1.46E+03**	**3.55E+04**
Dehalobacter spp.	*DHBt*		**1.35E+02**	**4.09E+03**
Desulfuromonas spp.	*DSM*		**1.30E+02**	**4.34E+02**

Phylogenetic Group

Total Eubacteria	EBAC		**2.17E+06**	**8.10E+06**
Sulfate Reducing Bacteria	APS		**4.03E+02**	**8.27E+02**
Methanogen	MGN		**1.65E+06**	**1.56E+05**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

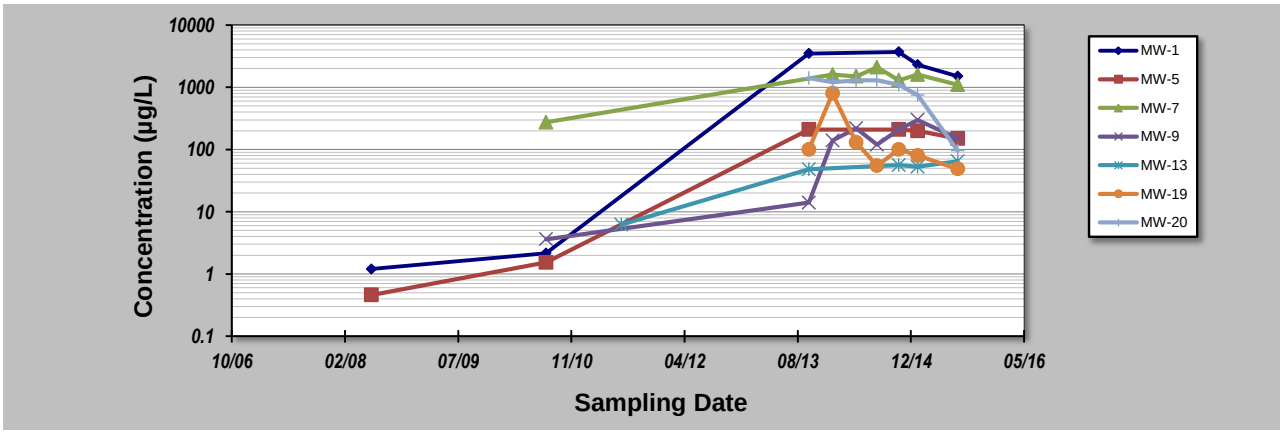
APPENDIX C

MANN-KENDALL STATISTICS

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	21-Sep-15	Job ID:	2013.0014.EATN
Facility Name:	Former Eaton Selma	Constituent:	PCE
Conducted By:	Samuel McIntyre	Concentration Units:	µg/L

Sampling Point ID:		MW-1	MW-5	MW-7	MW-9	MW-13	MW-19	MW-20
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	18-Jun-08	1.2	0.46					
2	29-Jul-10	2.15	1.53	273	3.62			
3	27-Jun-11					6.20		
4	2-Oct-13	3,500	210		14	48	100	1,400
5	15-Jan-14			1,600	140		800	1,200
6	29-Apr-14			1,500	220		130	1,300
7	30-Jul-14			2,100	120		55	1,300
8	3-Nov-14	3,700	210	1,300	210	56	100	1,100
9	26-Jan-15	2,300	200	1,600	300	53	80	750
10	22-Jul-15	1,500	150	1,100	150	65	49	96
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		0.89	0.79	0.42	0.70	0.50	1.45	0.45
Mann-Kendall Statistic (S):		5	4	0	16	8	-12	-16
Confidence Factor:		76.5%	70.3%	37.9%	96.9%	95.8%	94.9%	99.0%
Concentration Trend:		No Trend	No Trend	Stable	Increasing	Increasing	Prob. Decreasing	Decreasing



Notes:

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

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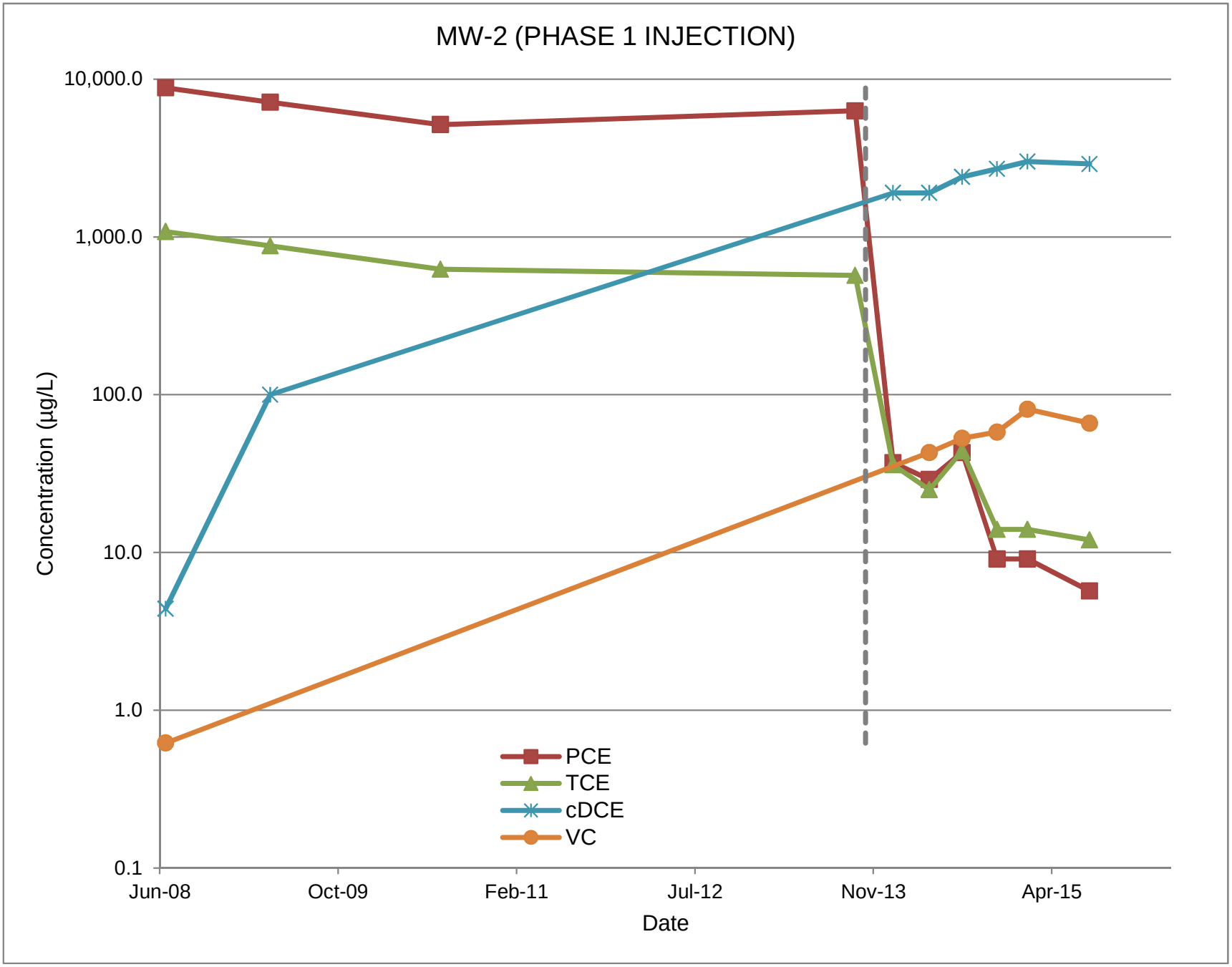
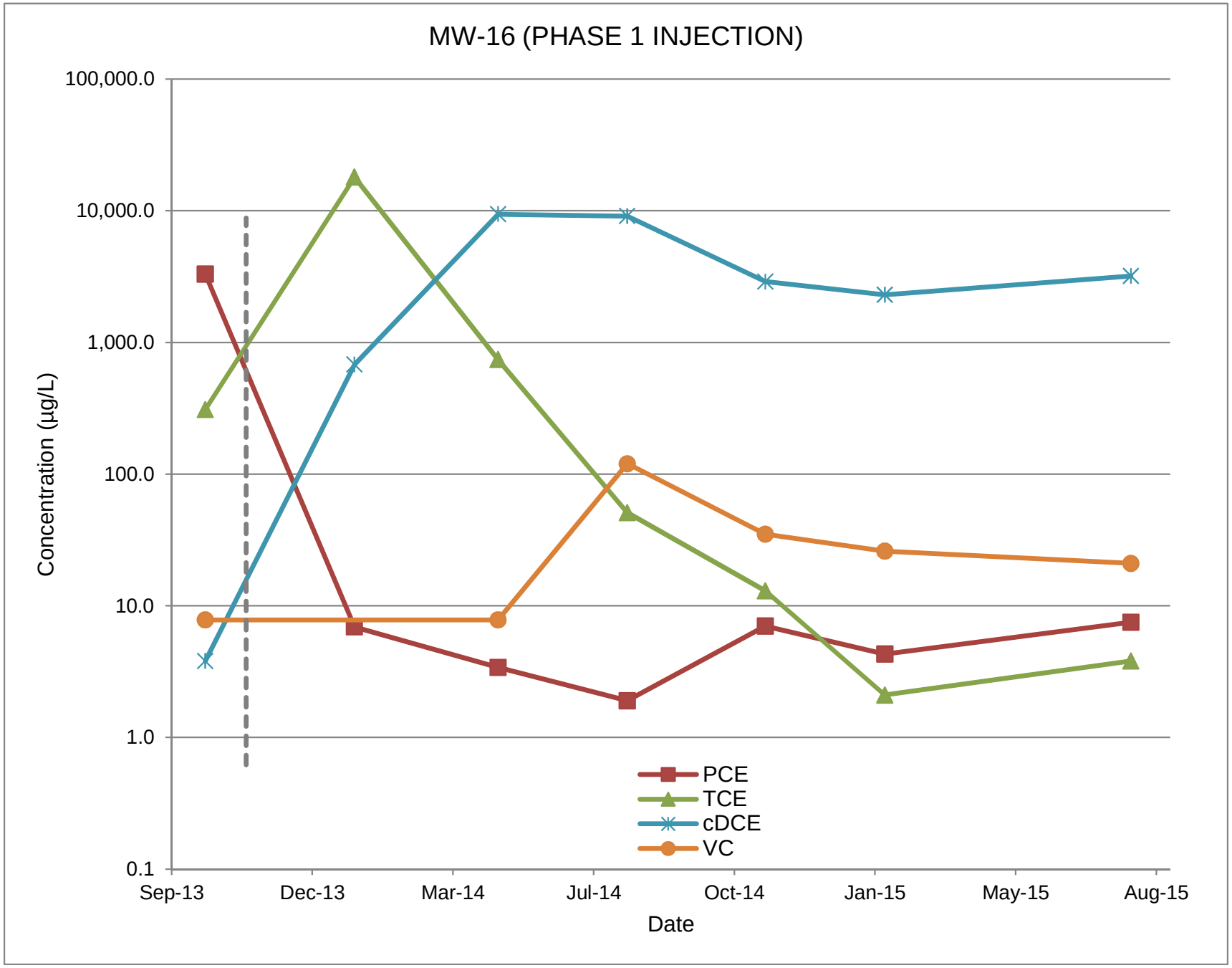
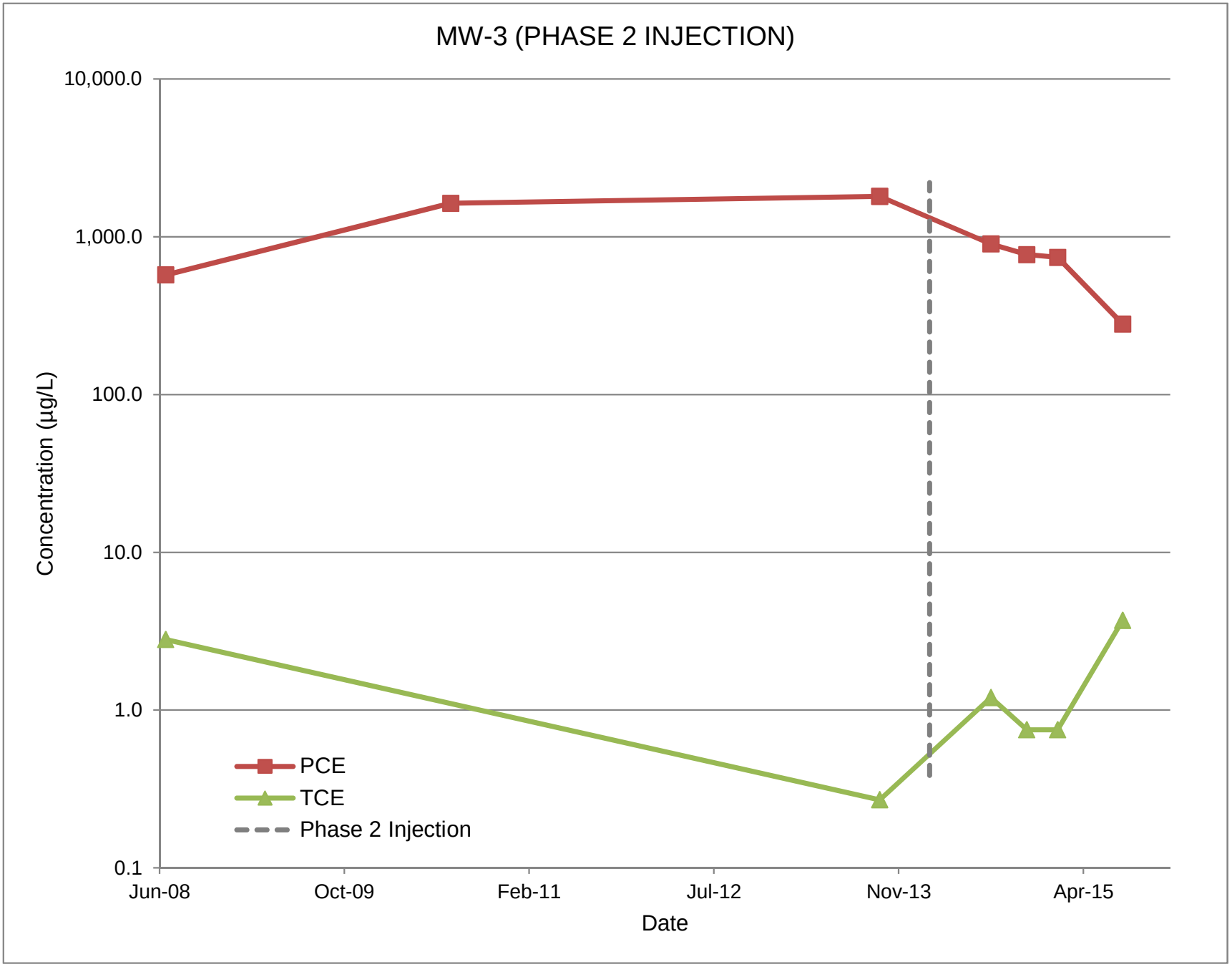
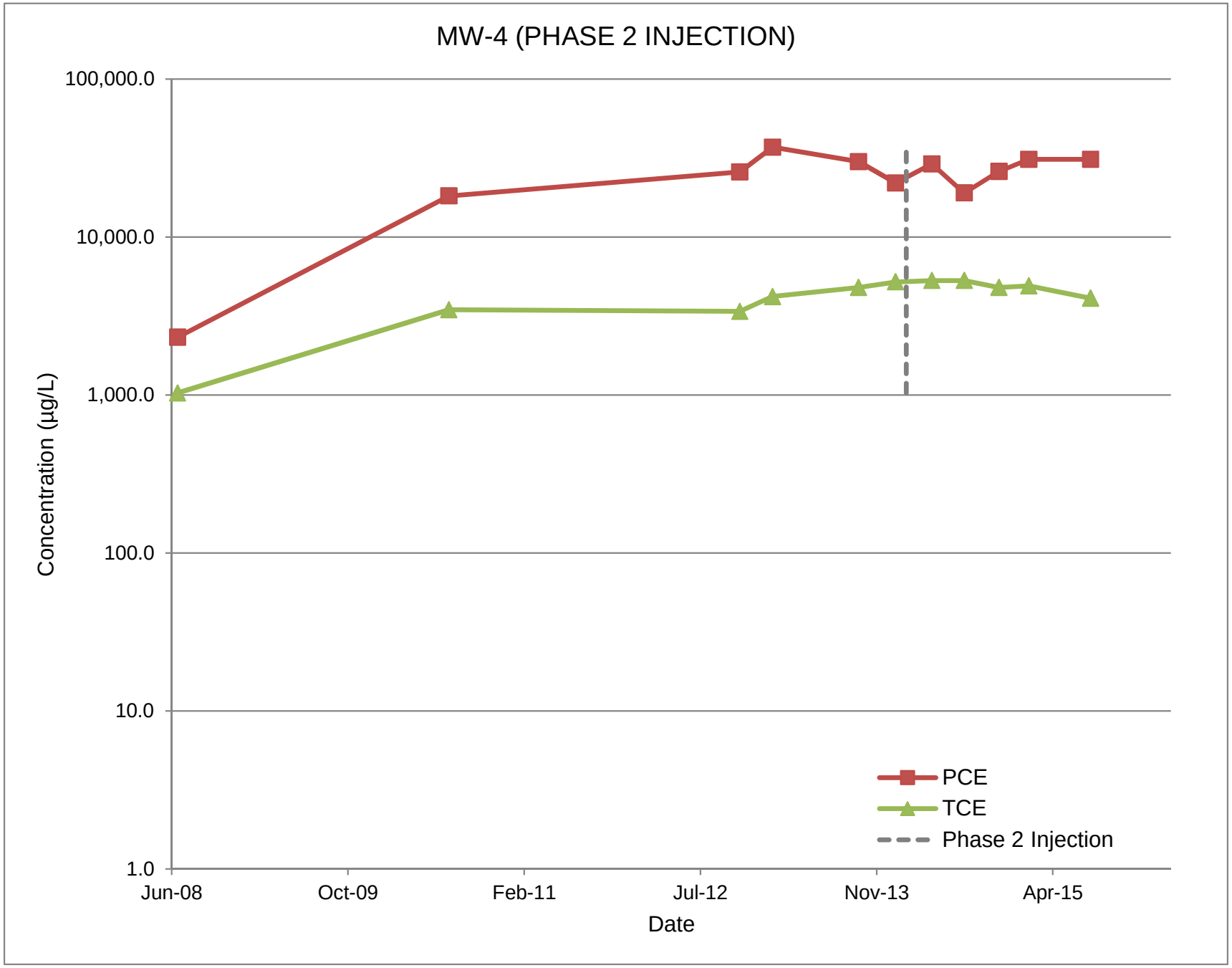
APPENDIX D

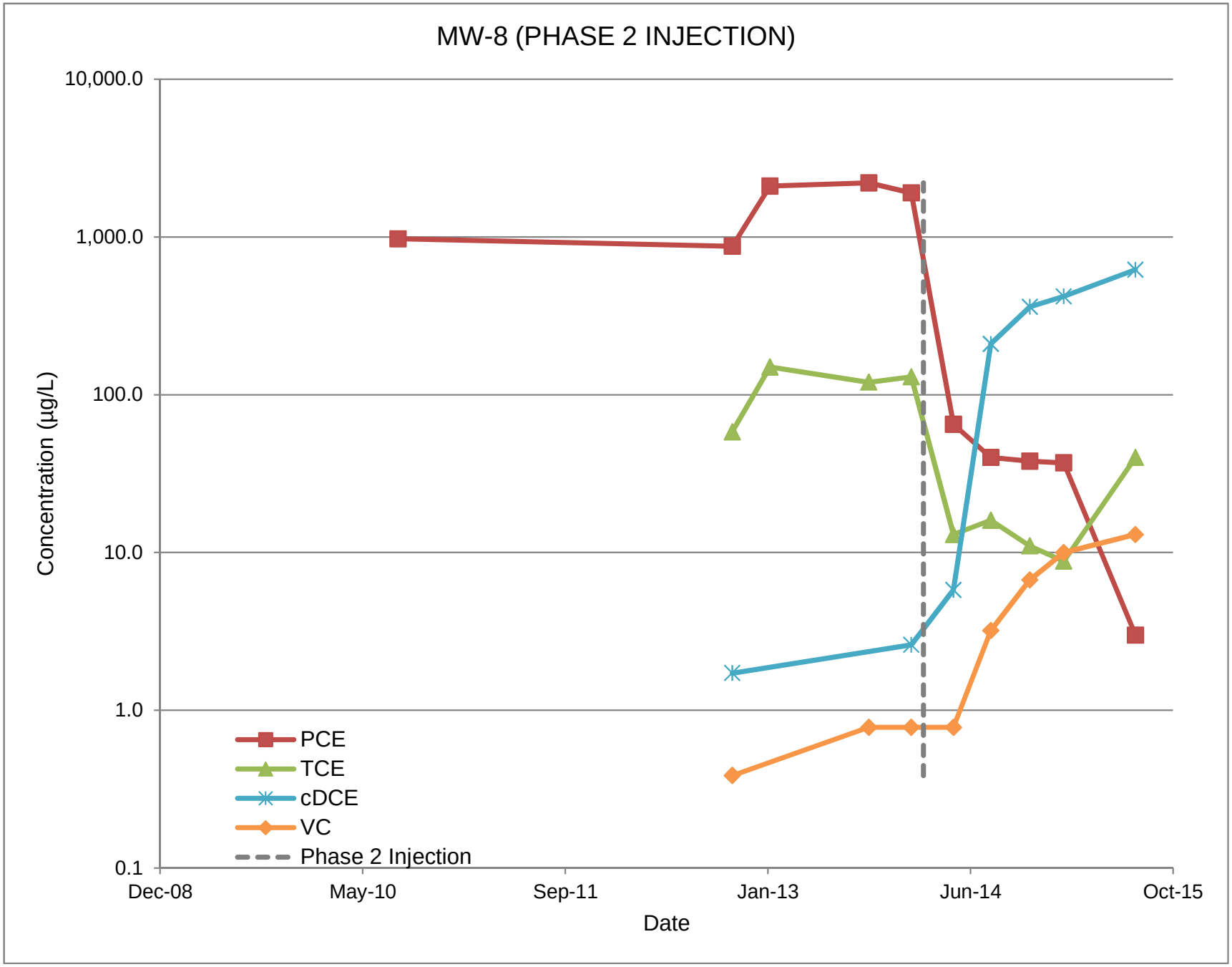
CVOC CONCENTRATIONS VERSUS TIME GRAPHS


MW-2 (PHASE 1 INJECTION)
10,000.0
1,000.0
100.0
10.0
1.0
0.1
Concentration (µg/L)
Jun-08
Oct-09
Feb-11
Jul-12
Nov-13
Apr-15
Date
PCE
TCE
cDCE
VC


MW-16 (PHASE 1 INJECTION)
100,000.0
10,000.0
1,000.0
100.0
10.0
1.0
0.1
Concentration (µg/L)
Sep-13
Dec-13
Mar-14
Jul-14
Oct-14
Jan-15
May-15
Aug-15
Date
PCE
TCE
cDCE
VC


MW-3 (PHASE 2 INJECTION)
10,000.0
1,000.0
100.0
10.0
1.0
0.1
Concentration (µg/L)
Jun-08
Oct-09
Feb-11
Jul-12
Nov-13
Apr-15
Date
PCE
TCE
Phase 2 Injection


MW-4 (PHASE 2 INJECTION)
100,000.0
10,000.0
1,000.0
100.0
10.0
1.0
Concentration (µg/L)
Jun-08
Oct-09
Feb-11
Jul-12
Nov-13
Apr-15
Date
PCE
TCE
Phase 2 Injection


MW-8 (PHASE 2 INJECTION)
10,000.0
1,000.0
100.0
10.0
1.0
0.1
Concentration (µg/L)
Dec-08
May-10
Sep-11
Jan-13
Jun-14
Oct-15
Date
PCE
TCE
cDCE
VC
Phase 2 Injection