Caulk, Kim

From: Tony Lieberman <TLieberman@solutions-ies.com>
Sent: Friday, January 24, 2014 1:21 PM
To: Caulk, Kim
Cc: Jody Overmyer
Subject: Eaton Selma Work Phase Completion Question

Hi Kim,
Jody is at a conference today and asked me to reply to your question about why a Work Phase Completion Statement was not included with Construction Completion Report No.1 for this site. This was intentional. The original plan was to complete all well installations last September 2013 and then inject half in October and the other half in November. Had we been able to meet this schedule, we would have interpreted this as a completed work phase and easily met the REC deadline for implementation of the groundwater remedy which was February 2014 (2 years after completion of the RI). The wells were all installed as planned, but there were some product acquisition and injection questions that we wanted to resolve before committing all the product into the ground. So we delayed the second injections until January 2014 (our personnel have been injecting this week). We prepared Construction Completion Report No.1 and submitted it as part of the Quarterly Status Update, to document implementation of the remedy within the 2-year window. But in our minds, until all the product is in the ground the Work Phase is not complete. Construction Completion Report No.2 will be submitted with the next quarterly update and it will have the Work Phase Completion Certification Statement with it at that time.

I hope the clarifies our thinking on this and answers your questions.
Regards,
Tony

M. Tony Lieberman, RSM, PMP | Sr. Environmental Scientist I Sr. Consultant
Solutions-IES, Inc.
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Please consider the environment before printing this note.

CONSTRUCTION COMPLETION REPORT
NO. 1

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 Corporation, Inc.
1000 Eaton Boulevard
Cleveland, OH 44122

Prepared by:
Solutions-IES, Inc.
1101 Nowell Road
Raleigh, NC 27607
919-873-1060

Solutions-IES Project No. 2013.0014.EATN

January 2014

Jody L. Overmyer, P.E.
Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 038129 ENGINEER JODY L. OVERMYER
1/15/14

M. Tony Lieberman, RSM
Senior Consultant

Solutions-IES
Industrial & Environmental Services

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January 15, 2014

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: **January 2014 Quarterly Status Report and Construction Completion Report No. 1**
Eaton Corporation Former Facility
1100 East Preston Street
Selma, NC
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 in Selma, NC. 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 (EOS XR) into 60 injection wells (Phase 1). Phase 2, which will include the remaining 60 injection wells, is scheduled to begin on or about January 20, 2014. SIES has prepared and attached Construction Completion Report No. 1 summarizing the following activities: monitoring and injection well installation, baseline sampling, and Phase 1 CoBupH-Mg and EOS XR injection. Phase 1 bioaugmentation is planned for February 2014. Post-injection monitoring events will be conducted at 3-month, 6-month, 9-month, and 12-month intervals for both phases.

Work is progressing in a manner to achieve the mandatory work phase completion deadlines specified in the Administrative Agreement and 15A NCAC 13C .0302(h).

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.

Jody Overmyer, P.E.
Project Manager

Attachment 1 – Certification Statements
Attachment 2 – Construction Completion Report No. 1

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 1/15/2014 Quarterly Summary/Constr Compl Rpt No. 1
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 P Allen
Name of Remediating Party

Jeffrey P Allen
Signature of Remediating Party

1-6-14
Date

NOTARIZATION

Ohio (Enter State)

Summit **COUNTY**

I, Cathryn Block, a Notary Public of said County and State, do hereby certify that Jeffrey P. 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 6th day of January, 2014.

Notary Public (signature)

My commission expires: 11/23/15.

(OFFICIAL SEAL)

NOTARIAL SEAL STATE OF OHIO

CATHRYN BLOCK
NOTARY PUBLIC
FOR THE
STATE OF OHIO
My Commission Expires
November 23, 2015

IHSB SITE NAME NONCD 0002853 / Former Eaton Selma
DATE & NAME OF DOCUMENT 1/15/2014 Quarterly Summary/Constr Compl Rpt No. 1
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

1/15/14
Date

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

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act 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

1/15/14
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 Drivers 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 January, 2014.

Debra A Tabron
Notary Public (signature)

(OFFICIAL SEAL)

DEBRA A. TABRON
Notary Public
Wake County
NORTH CAROLINA

My commission expires: 8.22.15.

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

ATTACHMENT 2

CONSTRUCTION COMPLETION REPORT NO. 1

CONSTRUCTION COMPLETION REPORT
NO. 1

FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NORTH CAROLINA, 27576
LONGITUDE W78°17'02", LATITUDE N35°31'33"
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919-873-1060

Solutions-IES Project No. 2013.0014.EATN

January 2014

Jody L. Overmyer, P.E.
Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 038129 ENGINEER JODY L. OVERMYER
1/15/14

M. Tony Lieberman, RSM
Senior Consultant

Solutions-IES
Industrial & Environmental Services

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1.0 INTRODUCTION

This Construction Completion Report No. 1 has been prepared for the former Eaton Corporation facility located at 1100 East Preston Street in Selma, Johnston County, North Carolina, 27576 (Eaton Selma). The Eaton Selma facility is located about 0.5 miles northeast of the intersection of US Highway 95 and NC Highway 70. The site is currently occupied by Johnston County Industries, Inc. (JCI).

The Remedial Action Plan for Groundwater (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, 2013a). The 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, described the results of two Pre-Design Investigations (PDIs) and presented the final design of the remedy. The remedy implementation included well installation beginning on September 16, 2013, and Phase 1 substrate injection beginning on October 21, 2013. This Construction Completion Report No. 1 presents "as-built" plans and specifications, a summary of major variances from the final design plans, and a short discussion of problems encountered during well installation and Phase 1 injection. Phase 2 substrate injection is scheduled to begin January 20, 2014, and will be summarized in a subsequent Construction Completion Report.

2.0 AS-BUILT PLANS AND SPECIFICATIONS

2.1 MONITORING AND INJECTION WELL INSTALLATION

Between September 16 and September 27, 2013, 120 nested pairs of injection wells at 60 locations and five monitoring wells were installed by Geologic Exploration of Statesville, NC using hollow stem augers. The injection planned to target two zones within the sand and gravel layer: Zone A and Zone B. Therefore, the Type II injection wells consist of 2-inch diameter PVC riser attached to 10 feet of 2-inch diameter PVC 0.010-inch slot screens for the Zone A wells, and 7 feet of 2-inch diameter PVC 0.010-inch slot screens for the Zone B wells. Zone A wells are screened from 10 to 20 feet (ft) below ground surface (bgs). Zone B wells are screened from 23 to 30 ft bgs. The nested injection well locations are spaced approximately 30 ft apart. The Zone A and Zone B screens are nested in one 10-inch diameter borehole. A filter sand pack was

placed around the 7-ft long Zone B well screen to approximately 6 inches above the top of screen (typically 22.5 to 30 ft bgs). Two feet of bentonite was then emplaced above the filter pack both to provide impermeable separation between the screen intervals and to prevent development of a vertical path for substrate return during injection. Another 6 inches of filter sand pack was then placed above the bentonite plug to form the bedding bottom for the shallow well screen in the borehole. The 10-ft long Zone A well screen was then set with a filter sand pack around the screen to approximately 1-ft above the top of screen (typically 9.0 to 20.5 ft bgs). Two feet of bentonite was again used above the shallow filter sand pack and the wells were grouted to the ground surface. During injection well installation, soil lithology was described from the auger cuttings providing information for soil boring logs. The injection wells installed in the JCI driveway (IW-15A/B, IW-16A/B, IW-17A/B, IW-25A/B, IW-30A/B, IW-31A/B, and IW-32A/B) were secured in reinforced bolt-down flush-mount manholes with locking well caps and labels in accordance with 15A NCAC 2C well construction standards (see Photographs 10 and 11 in **Appendix F**). IW-1A/B to IW-8A/B and IW-10A/B were completed with aboveground protective standpipes, also with locking well caps and labels (see Photograph 18 in **Appendix F**). The remaining injection wells were secured in bolt-down flush-mount manholes.

Five Type II monitoring wells were installed (MW-16, MW-17, MW-18, MW-19, and MW-20) and consisted of 2-inch diameter PVC riser attached to 10 feet of 2-inch diameter PVC 0.010-inch slot screens that were set from 15 to 25 ft bgs. In each of the 8-inch boreholes constructed to accommodate each monitoring well, a filter sand pack was placed around the well screen to approximately 2 ft above the top of the screen. Bentonite was used to seal each well to 3 ft above the filter sand pack and the wells were grouted to the ground surface. During installation, split-spoon samples were collected in the five monitoring wells to log soil lithology and prepare boring logs. Well construction records are included in **Appendix A** and boring logs are included in **Appendix B**. MW-16 was completed as an aboveground protective standpipe with a locking well cap and label. Monitoring wells MW-17 through MW-20 were secured in bolt-down flush-mount manholes with locking well caps and labels in accordance with 15A NCAC 2C well construction standards.

The new monitoring wells and injection wells were surveyed by KCI Associates of North Carolina, P.A. on October 11, 2013. The survey coordinates, along with ground surface and top-of-casing elevations are summarized in **Appendix C**. As-built well locations are used on the site layouts presented on **Figures 1** and **2**.

2.2 INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW) generated during well installation included:

- Soil cuttings from boreholes that were initially placed in three roll-off boxes.
- Water used for equipment decontamination (decon water) that was containerized in 16 DOT-approved 55-gallon metal drums.
- Well drilling/development water that was initially containerized in DOT-approved 55-gallon metal drums then transferred to a 4,000 gallon poly tank.

A total of five characterization samples were collected: three composite soil samples, IDW-Soil-904, IDW-Soil-910, and IDW-Soil-907 (one composite sample from each of the three original rolloff boxes consisting of 3 depths [upper, middle, and bottom] at 2 random locations); two water samples (one representative of drilling/development water collected prior to transfer to the poly tank [IDW-Develop-1] and one representative of decon water collected from one drum [IDW-Decon-1]). The laboratory analytical report for IDW is included in **Appendix D** (Note: additional IDW sample results are included within the laboratory report from previous field events). Material manifests and certificates of disposal documenting transportation and disposal of 61.02 tons of non-hazardous soil and 16 drums of non-hazardous water to the Evo Corporation facility in Winston-Salem, NC, are included in **Appendix E**. Transportation and disposal of hazardous well drilling/development water to the Clean Harbors facility in Baltimore, Maryland is still pending. Material manifests for this material will be included in the Construction Completion Report to be prepared for the Phase 2 activities. A photo log and field notes are included in **Appendix F** and **Appendix G**, respectively. **Figure 3** includes a cross-section generated from the monitoring well boring log information.

2.3 SUBSTRATE INJECTIONS

Injection setup included 1.25” HDPE pipe that was extended to the terminal depth of the injection wells to minimize settling of the colloidal buffer. The HDPE pipes were attached to camlock fittings connecting them to the main distribution lines. The injection wells were divided into two groups, Group A and Group B, each consisting of 30 wells at 15 locations. Substrate injection was performed in two steps. First, a colloidal buffer (CoBupH-Mg[1]) was injected to provide immediate and long term groundwater pH adjustment. The amount of colloidal buffer added to each well was adjusted according to its location within the plume as well as injection depth (i.e., its pH and buffering capacity), with Zone A wells

[1] CoBupH-Mg and EOS XR are products of EOS Remediation, LLC. Both are approved for use in North Carolina.

receiving more buffer and Zone B wells receiving less. CoBupH-Mg was diluted to a ratio of 1:5 (1 part buffer to 5 parts water) with water prior to injection and then chased with approximately 60 gallons of water in Zone A and Zone B. Second, following injection of the CoBupH-Mg and the chase water, EOS XR[1] was then injected. EOS XR is a long-lasting emulsified vegetable oil product that promotes an anaerobic, carbon-rich, reducing environment conducive to support reductive dechlorination of the contaminants of concern. EOS XR was diluted with water to a ratio of 1:5.05 (1 part substrate to 5.05 parts water). The EOS XR injection was followed by chase water of approximately 2,260 gallons of water per Zone A injection well and 2,688 gallons of water per Zone B injection well to flush the emulsified oil substrate into the aquifer. Actual substrate volumes are summarized in **Table 1**.

As discussed in the Pre-Construction Report (SIES, 2013b), the amount of base required to raise the pH to 7 standard units (SU) in the shallower clayey silt soils (avg. 59 meq/kg; n=6) was greater than the amount required to raise the pH in the deeper sand and gravel layer (avg. 1.1 meq/kg; n=5). Based on this information, approximately 401 pounds (lbs) (30 gallons) of CoBupH-Mg was injected into the 60 injection wells, equating to approximately 1 gallon per location. Zone A wells received five-sixths (5/6) of a gallon of the product at each location, and Zone B wells received one-sixth (1/6) of a gallon at each location. Approximately 51,134 lbs (6,392 gallons) of EOS XR was distributed amongst the 60 injection wells, equating to 4 drums per location. To address matrix diffusion of contaminants out of the shallow clay, Zone A wells received two-thirds (142 gallons) of the product volume for each location, and Zone B wells received one-third (70 gallons) of the product volume for each location.

As mentioned above, 30 wells (15 Zone A injection wells and 15 Zone B injection wells) were manifolded and injected at the same time. During the injection, pressures less than 10 pounds per square inch (psi) in Zone A and 15 psi in Zone B were maintained. Injection rates for wells ranged from less than 0.5 gallons per minute (gpm) to as high as 4 gpm. The potable water used during the injection event was obtained from the hydrant located at the northern entrance to the JCI facility off of East Preston Street. The Injection Event Record is included in **Appendix H** and injection logs for each injection well are included in **Appendix I**.

During injection, monitoring wells MW-2, MW-8, MW-16, MW-17, and MW-20 were periodically monitored for water level, visual description, turbidity, pH, conductivity, and oxidation-reduction potential (ORP). Mounding, milkiness, and increases in pH were noticed in MW-2 and MW-16. Monitoring well observations carried out during the injection are included in **Appendix J**. A photo log and field notes are included in **Appendix F** and **Appendix G**, respectively.

3.0 SUMMARY OF MAJOR VARIANCES FROM FINAL DESIGN PLANS

During the Phase 1 injection event at the Eaton Selma site, there were variances from the final design plan presented in the Pre-Construction Report (SIES, 2013b). A summary of the variances follows.

Due to the depth to water, the construction completion of the injection wells was modified from the original design presented in the UIC Permit WI0500657 application and the Pre-Construction Report (SIES, 2013b). Specifically, 1-ft filter sand and 2-ft bentonite were placed above the Zone A screen instead of 2-ft filter sand and 3-ft bentonite, as originally described in the injection permit application.

Following well installation, modifications to the injection presented in Table 8 of the Pre-Construction Report (SIES, 2013b) were made to optimize the injection. They are summarized below:

- CoBupH-Mg was diluted with water to a ratio of 1:5 (1 part CoBupH-Mg to 5 parts water), compared to the 1:1 dilution specified in Table 8.
- The volume distribution of CoBupH-Mg at each injection well location was changed to five-sixths (5/6) Zone A and one-sixth (1/6) Zone B from two-thirds (2/3) Zone A and one-third (1/3) Zone B.
- The volume of CoBupH-Mg chase water to each location was increased to 120 gallons (60 gallons in Zone A and 60 gallons in Zone B) from 100 gallons (67 gallons in Zone A and 33 gallons in Zone B).
- The volume of EOS XR chase water was slightly modified to 2,260 gallons in Zone A and 2,688 gallons in Zone B from 2,255 gallons in Zone A to 2,715 gallons in Zone B.

There were no variances in the amount of colloidal buffer, CoBupH-Mg, injected into any wells during Phase 1. Two wells had variances in the amount of chase water used to distribute the CoBupH-Mg into the formation:

- IW-7A received 10 gallons less chase water than planned following CoBupH-Mg, a 17% decrease.
- IW-8A received an extra 16.5 gallons of chase water following CoBupH-Mg injection, a 28% increase.

During substrate injection, one well, IW-8A, received 25 gallons more EOS XR than originally planned, an increase of 25%.

There were nine major variances in the amount of chase water used to distribute EOS XR from the injection well into the formation during Phase 1:

- IW-4A received 390 gallons extra chase water due to unattended overnight chase continuing beyond the prescribed volume, a 17% increase.
- IW-25A received 1,064 gallons extra chase water due to unattended overnight chase continuing beyond the prescribed volume, a 47% increase.
- IW-25B received 895 gallons extra chase water due to unattended overnight chase continuing beyond the prescribed volume, a 33% increase.
- IW-42A received 431 gallons extra chase water due to unattended overnight chase continuing beyond the prescribed volume, a 19% increase.
- IW-42B received 647 gallons extra chase water due to unattended overnight chase continuing beyond the prescribed volume, a 24% increase.
- The EOS XR water chase at IW-7B was stopped 723.5 gallons short of the planned chase water volume due to breakthrough near the well, a 27% reduction.
- The EOS XR water chase at IW-8A was stopped 698.5 gallons short of the planned chase water volume due to breakthrough near the well, a 31% reduction.
- The EOS XR water chase at IW-8B was stopped 898 gallons short of the planned chase water volume due to breakthrough near the well, a 33% reduction.
- The EOS XR water chase at IW-14A was stopped 1,713 gallons short of the planned chase water volume due to breakthrough near the well, very low flow rates, and pressures exceeding 15 psi. This was a 76% reduction.

4.0 SUMMARY OF PROBLEMS ENCOUNTERED DURING CONSTRUCTION

Several injection wells had to be moved from their originally planned location due to either subsurface utilities, the inability of the drill rigs to work around JCI's existing facilities, or existing site features such as trees. MW-20, IW-43A/B, and IW-44 A/B were moved 2 to 5 ft away from the planned location because the locations were too close to the former Eaton facility to permit drilling equipment access. MW-18 was moved to be in line with injection wells to avoid a sanitary sewer line and overhanging branches. IW-12A/B was moved due to existing stormwater drainage piping at the site.

The soil cuttings from well installation were initially placed in three rolloff boxes (see **Section 2.2** above). However, due to the density and moisture content of the cuttings, the rolloff boxes exceeded the maximum permissible transport weight, so the transportation and disposal contractor (Evo Corporation) brought an additional four rolloff boxes to the site to more evenly distribute the weight before transport.

During well installation, issues were encountered with heaving sands at the site. This caused cave-in at the first injection well installation performed at IW-2A/2B. Subsequently, to control potential for cave-in while setting nested wells, the drillers installed a plug in the auger and added potable water to keep the borehole open during installation. This technique was used to allow the remaining wells to be installed as planned during the rest of the event.

During the injection of EOS XR to Phase 1 wells, ground surface breakthrough (see Photo No. 21 in **Appendix F**) was encountered in the vicinity of IW-7A/B, IW-8A/B, IW-13A/B, and IW-14A/B while maintaining pressures below 10 psi for Zone A injection wells and 15 psi for Zone B injection wells. IW-14A/B in particular was limited in the volume of substrate able to be injected. This breakthrough also prevented complete injection of the planned chase water in IW-7B, IW-8A/B, and IW-14A (see **Section 3.0**)

Due to the large volumes of chase water injected at the site, chase water was pumped overnight directly from the hydrant source. During this unattended process, some injection wells experienced increased flow rates and received a larger volume of chase than originally intended, as discussed in **Section 3.0**.

5.0 PERFORMANCE MONITORING

Post-injection monitoring events will be conducted per the RAP (SIES, 2013a) and Pre-Construction Report (SIES, 2013b), with a slight variation in the wells to be sampled due to the injection phases now being separated by 3 months. A revised performance monitoring schedule is provided in **Table 2**. Initially, monitoring events will occur approximately 3 months, 6 months, 9 months, and 12 months post-injection. Quarterly MNA monitoring in the first year will be scheduled in conjunction with post-injection monitoring. Unless modified, MNA monitoring events beyond Year 0 (quarterly) will be scheduled semi-annually during Years 1 through 5, and then annually until Year 15.

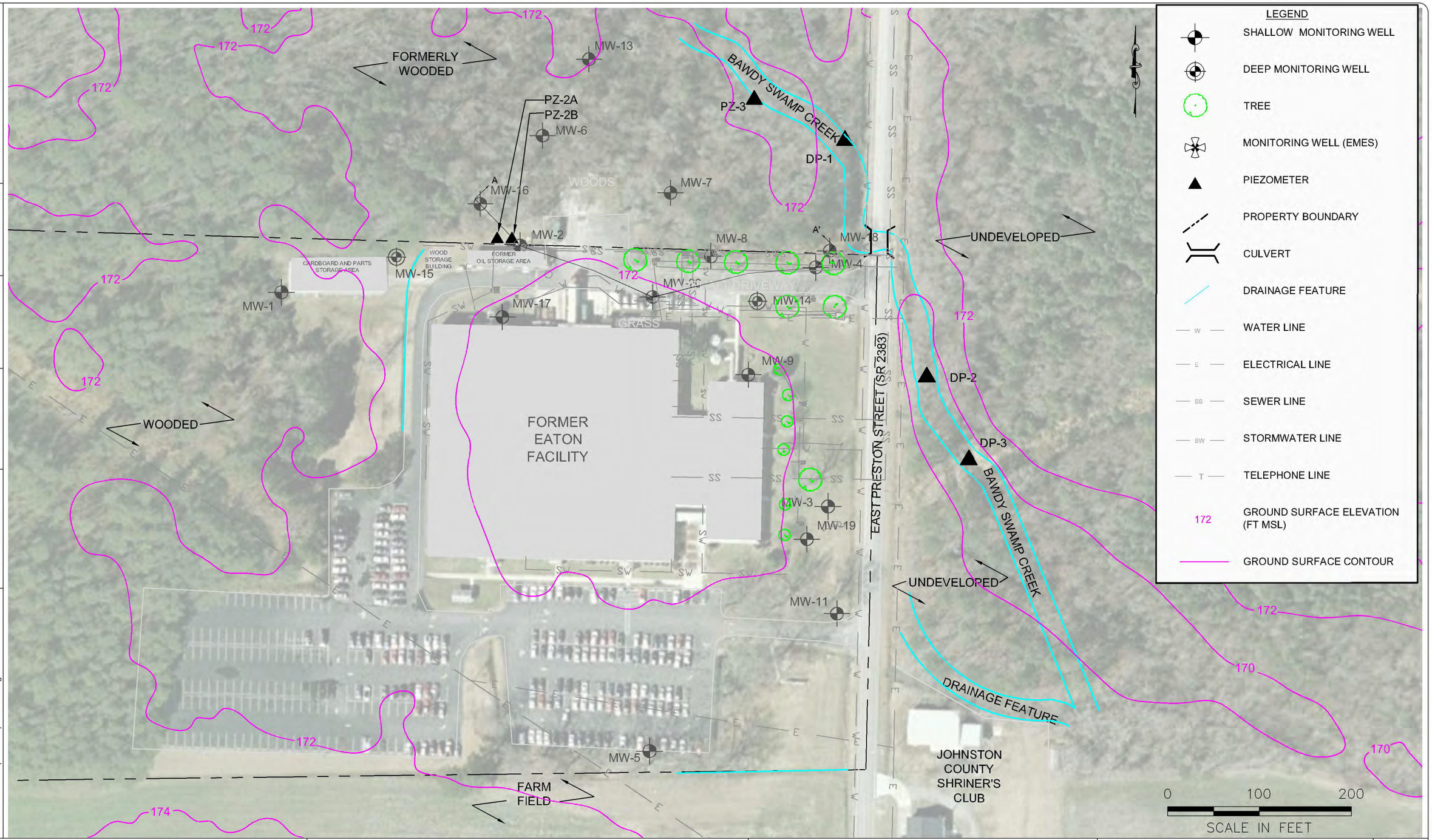
6.0 REFERENCES

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

SIES, 2013b. Pre-Construction Report, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston County, North Carolina, September 16.

FIGURES

PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 1/6/2014
FILE Construction Completion Report No. 1.dwg



Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

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 CONTOUR LINES FROM JOHNSTON COUNTY GIS, 2011.

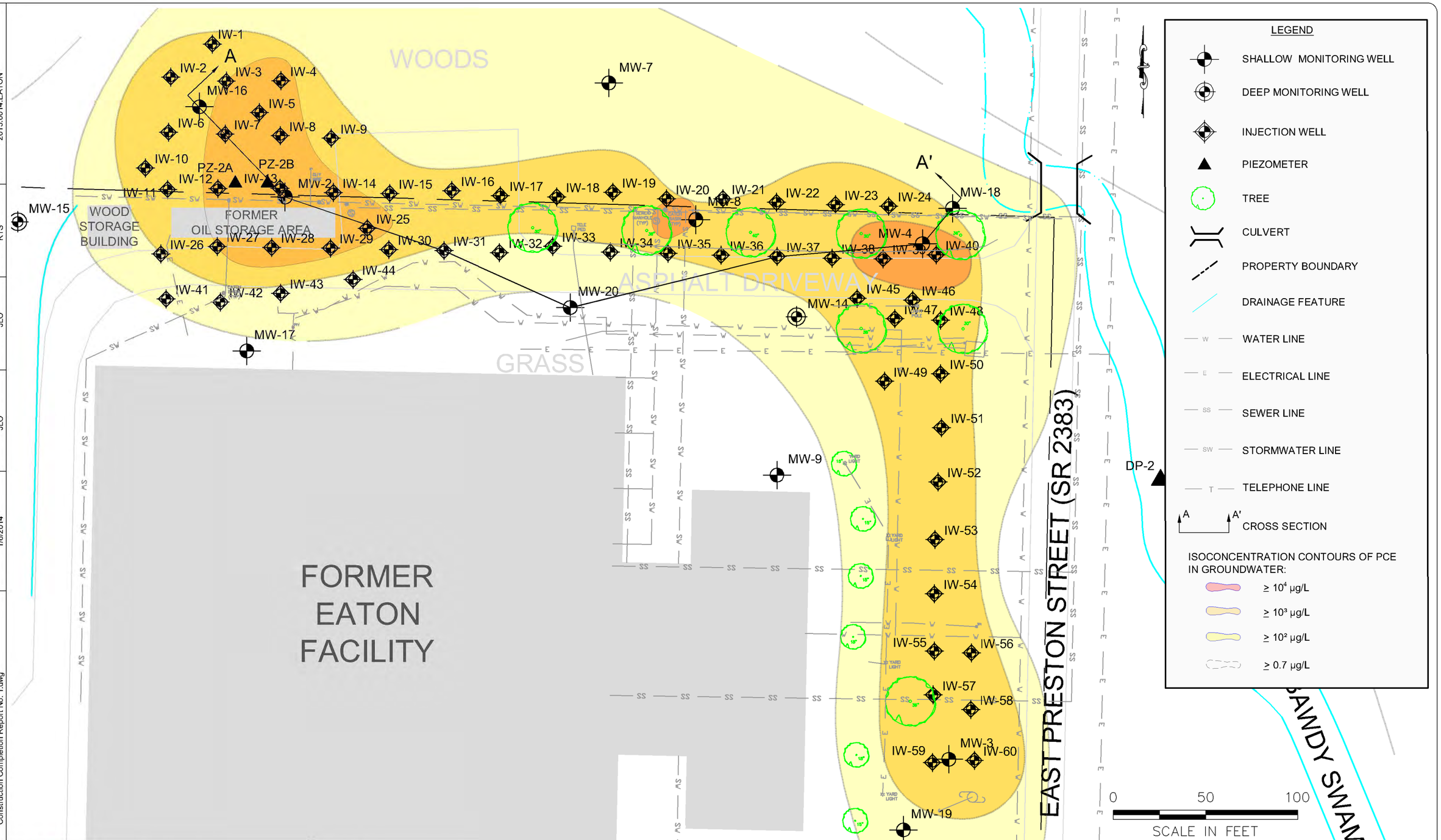
FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SITE MAP

FIGURE: 1

J:\Project Files\Eaton Corporation\Eaton Selma\CAD\Current Drawings\Remedial Action\Construction Completion Report No. 1.dwg

PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 1/6/2014
FILE Construction Completion Report No. 1.dwg



Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

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) INJECTION WELLS ARE IDENTIFIED BY A NUMBER AND ARE LABELED IW-1A/1B, IW-2A/2B, ETC.

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

INJECTION WELL LAYOUT

FIGURE: 2

PROJECT NUMBER 2013.0014.EATON

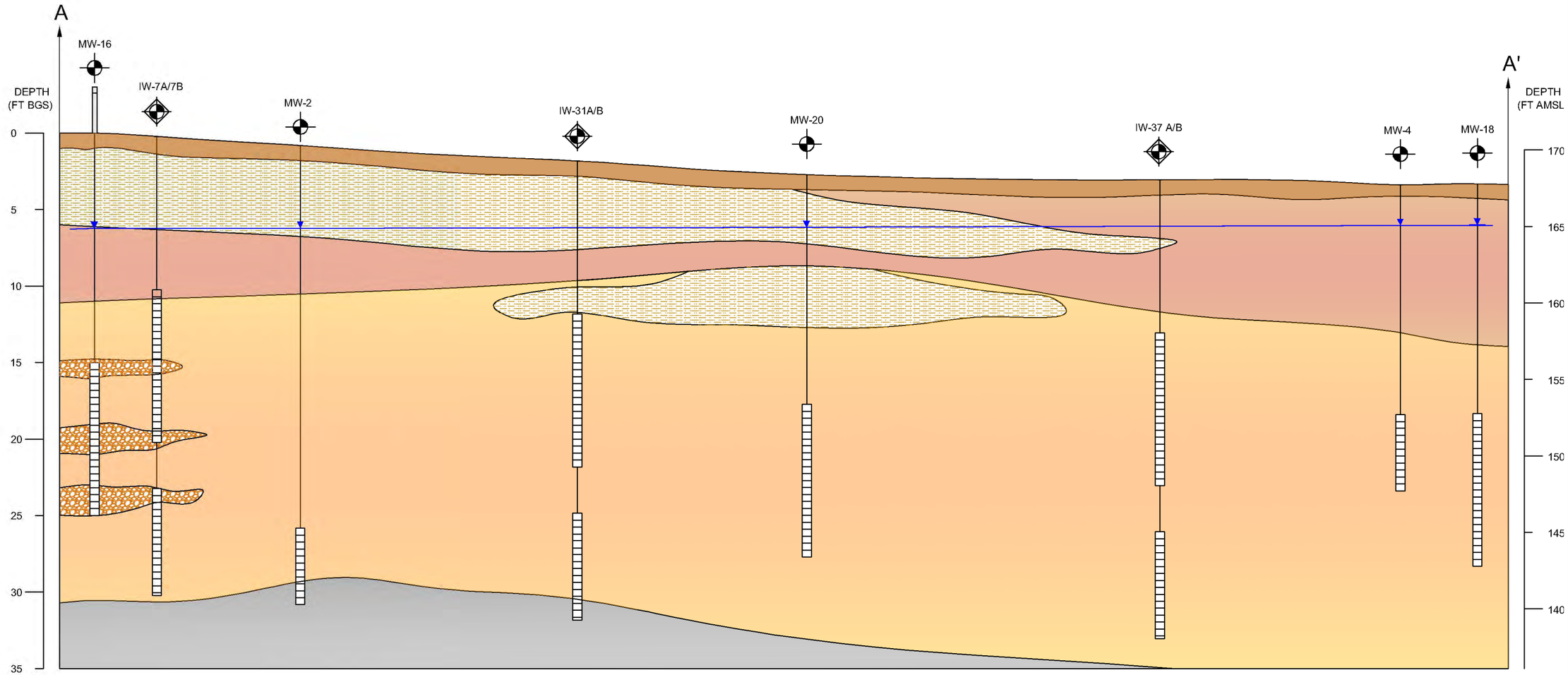
DRAFTER KTS

CHECKED BY JLO

PROJECT MANAGER JLO

DATE 1/6/2014

FILE Construction Completion Report No. 1.dwg



LEGEND

- FILL
- YELLOW TO ORANGE SILT
- LIGHT TAN TO DARK BROWN CLAY TO SILTY CLAY
- YELLOW TO ORANGE POORLY GRADED SAND WITH GRAVEL
- YELLOW TO ORANGE WELL GRADED SAND AND GRAVEL
- GREY STIFF TO VERY STIFF CLAY
- WATER TABLE (APPROXIMATE)
- MONITORING WELL
- SCREENED INTERVAL

0 35 70
HORIZONTAL SCALE IN FEET

0 7 14
VERTICAL SCALE IN FEET

NOTES:
1) WATER TABLE DATA FROM 10/1/13 BASELINE SAMPLING EVENT.
2) CROSS SECTION LITHOLOGY BASED ON MW-16, MW-18, AND MW-20.

Solutions-IES
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1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
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FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

CROSS SECTION A - A'

FIGURE: 3

TABLES

TABLE 1
SUMMARY OF SUBSTRATE INJECTION VOLUMES
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Well ID	Diluted Product from Field Forms (5 Water:1 Product)		Product				Chase Water	
	CoBupH-Mg (gal)	EOS XR (gal)	CoBupH-Mg (gal)	CoBupH-Mg (lbs)	EOS XR (gal)	EOS XR (lbs)	CoBupH-Mg (gal)	EOS XR (gal)
IW 1A	5.0	861.5	0.83	11.1	142.2	1,137.6	60.0	2,259.5
IW 1B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 2A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,218.5
IW 2B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,695.0
IW 3A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,260.0
IW 3B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 4A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,650.0
IW 4B	1.0	445.0	0.17	2.2	73.4	587.2	60.0	2,895.0
IW 5A	5.0	945.1	0.83	11.1	156.0	1,248.0	60.0	2,260.0
IW 5B	1.0	474.0	0.17	2.2	78.2	625.6	60.0	2,688.0
IW 6A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,260.0
IW 6B	1.0	424.2	0.17	2.2	70.0	560.0	61.8	2,688.0
IW 7A	5.0	848.0	0.83	11.1	139.9	1,119.2	50.0	2,426.0
IW 7B	1.0	435.5	0.17	2.2	71.9	575.2	60.0	1,964.5
IW 8A	5.0	1,006.0	0.83	11.1	166.0	1,328.0	76.5	1,561.5
IW 8B	1.0	424.5	0.17	2.2	70.0	560.0	60.0	1,790.0
IW 9A	5.0	848.0	0.83	11.1	139.9	1,119.2	66.0	2,268.5
IW 9B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 10A	5.0	852.2	0.83	11.1	140.6	1,124.8	55.8	2,260.0
IW 10B	1.0	407.8	0.17	2.2	67.3	538.4	60.0	2,688.0
IW 11A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,290.0
IW 11B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 12A	5.0	947.9	0.83	11.1	156.4	1,251.2	60.1	2,304.0
IW 12B	1.0	473.9	0.17	2.2	78.2	625.6	60.1	2,688.0
IW 13A	5.0	849.0	0.83	11.1	140.1	1,120.8	63.0	2,259.0
IW 13B	1.0	425.0	0.17	2.2	70.1	560.8	60.0	2,687.0
IW 14A	5.0	886.0	0.83	11.1	146.2	1,169.6	58.1	546.5
IW 14B	1.0	445.0	0.17	2.2	73.4	587.2	60.0	2,459.0
IW 15A	5.0	848.0	0.83	11.1	139.9	1,119.2	59.0	2,260.0
IW 15B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 16A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,310.0
IW 16B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 18A	5.0	848.0	0.83	11.1	139.9	1,119.2	66.0	2,521.0
IW 18B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 25A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	3,324.0
IW 25B	1.0	424.0	0.17	2.2	70.0	560.0	61.0	3,583.0
IW 26A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,486.0
IW 26B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 27A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,260.0
IW 27B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 28A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,423.0
IW 28B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0

TABLE 1
SUMMARY OF SUBSTRATE INJECTION VOLUMES
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Well ID	Diluted Product from Field Forms (5 Water:1 Product)		Product				Chase Water	
	CoBupH-Mg (gal)	EOS XR (gal)	CoBupH-Mg (gal)	CoBupH-Mg (lbs)	EOS XR (gal)	EOS XR (lbs)	CoBupH-Mg (gal)	EOS XR (gal)
IW 29A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,260.0
IW 29B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 30A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,260.0
IW 30B	1.0	423.8	0.17	2.2	69.9	559.2	64.2	2,688.0
IW 31A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,270.0
IW 31B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,742.0
IW 32A	5.0	863.0	0.83	11.1	142.4	1,139.2	60.0	2,260.0
IW 32B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 33A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,262.5
IW 33B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 41A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,260.0
IW 41B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 42A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,691.0
IW 42B	1.0	424.5	0.17	2.2	70.0	560.0	60.5	3,335.0
IW43A	5.0	848.0	0.83	11.1	139.9	1,119.2	60.0	2,290.0
IW 43B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
IW 44A	5.0	858.0	0.83	11.1	141.6	1,132.8	60.0	2,348.0
IW 44B	1.0	424.0	0.17	2.2	70.0	560.0	60.0	2,688.0
ACTUAL	**180**	**38,736**	**30**	**401**	**6,392**	**51,134**	**3,622**	**148,908**
DESIGN	**180**	**38,370**	**30**	**401**	**6,395**	**51,160**	**3,600**	**148,440**

Actual CoBupH-Mg Dilution Ratio = 5.00
Actual EOS XR Dilution Ratio = 5.06

TABLE 2
PHASE 1 INJECTION PERFORMANCE MONITORING
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Group A Monitoring Wells (16)	
Shallow	MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-11, MW-9, MW-13, MW-16, MW-17, MW-18, MW-19, and MW-20
Deep	MW-14 and MW-15
Group B Monitoring Wells (5)	
Shallow	MW-2, MW-4, MW-16, MW-18, and MW-19
Group C Monitoring Wells (9)	
Shallow	MW-2, MW-4, MW-7, MW-8, MW-9, MW-16, MW-18, MW-19, and MW-20
Group D Monitoring Wells (4)	
Shallow	MW-2, MW-7, MW-16, and MW-20
Group E Monitoring Wells (2)	
Shallow	MW-2 and MW-16

Analysis	**Baseline**	**3-Month**	**6-Month**	**9-Month**	**12-Month**
Field Parameters					
Water Levels	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
DO, ORP, pH, Spec. Cond., Temperature					
Laboratory Parameters					
VOCs	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
Nitrate-N; sulfate		Group D (4 wells)	Group D (4 wells)	Group D (4 wells)	
Fe+3/Fe+2; Mg (total)					
TOC					
Alkalinity					
MEE					
VFA	Group B (5 wells)	Group E (2 wells)	Group E (2 wells)	Group E (2 wells)	Group B (5 wells)
DHC, TCE-reductase, VC-reductase		0		0	

Note:
Baseline sampling event completed 10/1/13 - 10/2/13.

APPENDIX A

WELL CONSTRUCTION RECORDS

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/23/13 **Well ID#** MW-16

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.73" N 78° 17' 02.43" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 25.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 8.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	15.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15.0 ft.	25.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	10.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	25.0 ft.	TAN SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 10.0 TO 13.0 FT

22. Certification:

Brian Thomas

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** MW-17

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.68" N 78° 17' 02.61" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 25.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 8.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	15.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15.0 ft.	25.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	10.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	25.0 ft.	TAN SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 10.0 TO 13.0 FT

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commereial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** MW-18

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.90" N 78° 17' 57.92" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 25.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 8.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	15.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15.0 ft.	25.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	10.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	25.0 ft.	TAN SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 10.0 TO 13.0 FT

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/24/13 **Well ID#** MW-19

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 32.12" N 78° 16' 58.38" W

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

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 25.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 8.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	15.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15.0 ft.	25.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	11.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	BROWN SILT
5.0 ft.	11.0 ft.	ORANGE SILTY CLAY
11.0 ft.	20.0 ft.	ORANGE SAND
20.0 ft.	25.0 ft.	GRAY ROCKY SILTY SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 11.0 TO 13.0 FT

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/24/13 **Well ID#** MW-20

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.59" N 78° 17' 00.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 25.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 8.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	15.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15.0 ft.	25.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	11.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	BROWN SILT
5.0 ft.	10.0 ft.	TAN CLAY
10.0 ft.	18.0 ft.	ORANGE CLAYEY SANDY SILT
18.0 ft.	25.0 ft.	ORANGE/GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 11.0 TO 13.0 FT

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/16/13 **Well ID#** IW-1A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 36.08" N 78° 17' 02.64" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	12.0 ft.	TAN SILTY CLAY
12.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE SANDY CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/16/13 **Well ID#** IW-2A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.97" N 78° 17' 02.96" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	11.0 ft.	TAN SILTY CLAY
11.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE/GRAY CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/16/13 **Well ID#** IW-3A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.90" N 78° 17' 02.60" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE/GRAY CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-4A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.90" N 78° 17' 02.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-5A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.73" N 78° 17' 02.42" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	26.0 ft.	TAN SAND
26.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-6A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.62" N 78° 17' 02.90" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	11.0 ft.	TAN SILTY CLAY
11.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-7A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.58" N 78° 17' 02.90" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	12.0 ft.	TAN SILTY CLAY
12.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where construeted.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-8A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.59" N 78° 17' 02.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	12.0 ft.	TAN SILTY CLAY
12.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor — Date: 09/30/13

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-9A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.58" N 78° 17' 02.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	11.0 ft.	TAN SILTY CLAY
11.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Brian Thomas

Signature of Certified Well Contractor

09/30/13

Date

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

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-10A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.39" N 78° 17' 03.10" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	12.0 ft.	TAN SILTY CLAY
12.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Brian Thomas

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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1617 Mail Service Center, Raleigh, NC 27699-1617

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-11A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.32" N 78° 17' 03.02" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

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If water level is above casing, use "+"

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12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
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7.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

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24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

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1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-12A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.35" N 78° 17' 02.60" W

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

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

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(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	12.0 ft.	TAN SILTY CLAY
12.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-13A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.35" N 78° 17' 02.20" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-14A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.28" N 78° 17' 01.86" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	12.0 ft.	TAN SILTY CLAY
12.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-15A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.17" N 78° 16' 01.18" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	20.0 ft.	ORANGE/TAN SAND
20.0 ft.	25.0 ft.	ORANGE SAND
25.0 ft.	30.0 ft.	GRAY SILTY CLAY
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor — Date: 09/30/13

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-16A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.38" N 78° 16' 01.12" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	20.0 ft.	ORANGE/TAN SAND
20.0 ft.	25.0 ft.	ORANGE SAND
25.0 ft.	30.0 ft.	GRAY SILTY CLAY
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-17A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.32" N 78° 16' 00.82" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	20.0 ft.	ORANGE/TAN SAND
20.0 ft.	25.0 ft.	ORANGE SAND
25.0 ft.	30.0 ft.	GRAY SILTY CLAY
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-18A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.18" N 78° 17' 00.44" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	11.0 ft.	BROWN SILT
11.0 ft.	20.0 ft.	ORANGE SILTY SAND
20.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys 09/30/13

Signature of Certified Well Contractor Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-19A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.17" N 79° 17' 00.00" W

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

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	11.0 ft.	BROWN SILT
11.0 ft.	20.0 ft.	ORANGE SILTY SAND
20.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-20A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.24" N 79° 16' 59.72" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	11.0 ft.	BROWN SILT
11.0 ft.	16.0 ft.	ORANGE SILTY CLAY
16.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-21A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.28" N 79° 16' 59.34" W

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

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

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11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	11.0 ft.	BROWN SILT
11.0 ft.	16.0 ft.	ORANGE SILTY CLAY
16.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-22A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.28" N 79° 16' 58.92" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	11.0 ft.	BROWN SILT
11.0 ft.	16.0 ft.	ORANGE SILTY CLAY
16.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/16/13 **Well ID#** IW-23A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.07" N 78° 16' 58.52" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	10.0 ft.	BROWN SILT
10.0 ft.	17.0 ft.	LIGHT ORANGE CLAY
17.0 ft.	22.0 ft.	ORANGE SANDY CLAY
22.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/16/13 **Well ID#** IW-24A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.17" N 78° 16' 58.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	10.0 ft.	BROWN SILT
10.0 ft.	20.0 ft.	ORANGE SILTY SAND
20.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/20/13 **Well ID#** IW-25A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.77" N 78° 16' 02.14" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILTY CLAY
5.0 ft.	10.0 ft.	ORANGE SILTY CLAY
10.0 ft.	15.0 ft.	ORANGE CLAYEY SILT
15.0 ft.	26.0 ft.	ORANGE SAND
26.0 ft.	30.0 ft.	GRAY SILTY ROCKY CLAY
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-26A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.00" N 78° 17' 03.02" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	12.0 ft.	TAN SILTY CLAY
12.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-27A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.00" N 78° 17' 02.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	11.0 ft.	TAN SILTY CLAY
11.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-28A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.00" N 78° 17' 02.64" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	11.0 ft.	TAN SILTY CLAY
11.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/24/13 **Well ID#** IW-29A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.05" N 78° 17' 01.78" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	GRAY SILT
5.0 ft.	10.0 ft.	ORANGE SILTY CLAY
10.0 ft.	17.0 ft.	ORANGE CLAYEY SILTY SAND
17.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-30A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.00" N 78° 17' 01.50" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-31A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.00" N 78° 17' 01.50" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	29.0 ft.	TAN SAND
29.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-32A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.00" N 78° 17' 00.82" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-33A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 35.00" N 78° 17' 00.32" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-34A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.91" N 78° 17' 00.08" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-35A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.91" N 78° 17' 59.76" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

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If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
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18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
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2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	29.0 ft.	TAN SAND
29.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-36A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.96" N 78° 17' 59.40" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	29.0 ft.	TAN SAND
29.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-37A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.96" N 78° 17' 58.98" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	29.0 ft.	TAN SAND
29.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-38A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.91" N 78° 17' 58.70" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	29.0 ft.	TAN SAND
29.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/17/13 **Well ID#** IW-39A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.87" N 78° 16' 58.30" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	TAN SILT
5.0 ft.	11.0 ft.	BROWN SILT
11.0 ft.	20.0 ft.	ORANGE SILTY SAND
20.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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1617 Mail Service Center, Raleigh, NC 27699-1617

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-40A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.91" N 78° 17' 57.94" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

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*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

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For multiple wells list all depths if different (example- 3@200' and 2@100')

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If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	29.0 ft.	TAN SAND
29.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-41A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.76" N 78° 17' 03.02" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	27.0 ft.	TAN SAND
27.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor — Date: 09/30/13

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

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-42A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.76" N 78° 17' 02.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	3.0 ft.	GRAY SILTY SAND
3.0 ft.	6.0 ft.	RED/ORANGE SILTY CLAY
6.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-43A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.73" N 78° 17' 02.22" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	13.0 ft.	TAN SILTY CLAY
13.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/24/13 **Well ID#** IW-44A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.70" N 78° 17' 01.78" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	GRAY SILT
5.0 ft.	10.0 ft.	ORANGE SILTY CLAY
10.0 ft.	17.0 ft.	ORANGE CLAYEY SILTY SAND
17.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys 09/30/13

Signature of Certified Well Contractor Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-45A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.70" N 78° 17' 58.71" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	2.0 ft.	GRAY SILTY SAND
2.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	29.0 ft.	TAN SAND
29.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor — Date: 09/30/13

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-46A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.63" N 78° 16' 57.96" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-47A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.59" N 78° 16' 58.24" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-48A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.55" N 78° 16' 58.10" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-49A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.48" N 78° 16' 58.16" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

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

SUBMITTAL INSTUCTIONS

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1617 Mail Service Center, Raleigh, NC 27699-1617

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-50A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.36" N 78° 16' 57.96" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-51A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.14" N 78° 16' 57.88" W

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

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys — 09/30/13

Signature of Certified Well Contractor — Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-52A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 34.07" N 78° 16' 58.10" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor — Date: 09/30/13

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-53A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 33.45" N 78° 16' 57.88" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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1617 Mail Service Center, Raleigh, NC 27699-1617

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

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1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/18/13 **Well ID#** IW-54A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 32.97" N 78° 16' 57.94" W

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

7. Is this a repair to an existing well: ☐Yes or ☑No

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11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys 09/30/13

Signature of Certified Well Contractor Date

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

23. Site diagram or additional well details:

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1617 Mail Service Center, Raleigh, NC 27699-1617

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☑Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-55A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 32.88" N 78° 16' 57.80" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys 09/30/13

Signature of Certified Well Contractor

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/19/13 **Well ID#** IW-56A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 32.79" N 78° 16' 56.81" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	DARK BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE/TAN SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys 09/30/13

Signature of Certified Well Contractor Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

BRIAN THOMAS

Well Contractor Name

A - 2581

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

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

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-57A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

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

35° 31' 38.90" N 78° 17' 58.98" W

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

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	7.0 ft.	RED/ORANGE SILTY CLAY
7.0 ft.	14.0 ft.	TAN SILTY CLAY
14.0 ft.	28.0 ft.	TAN SAND
28.0 ft.	30.0 ft.	WHITE CLAY/COBBLES
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☐Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☑Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-58A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 31' 32.49" N 78° 16' 57.52" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Mark K Gettys 09/30/13

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☑Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/24/13 **Well ID#** IW-59A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 31' 32.22" N 78° 16' 57.88" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 10.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	GRAY SILT
5.0 ft.	10.0 ft.	ORANGE SILTY CLAY
10.0 ft.	17.0 ft.	ORANGE CLAYEY SILTY SAND
17.0 ft.	30.0 ft.	ORANGE SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

MARK GETTYS

Well Contractor Name

A - 2345

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☐Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☑Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/23/13 **Well ID#** IW-60A,B

5a. Well Location:

EATON FACILITY

Facility/Owner Name

Facility ID# (if applicable)

1100 EAST PRESTON STREET SELMA 27576

Physical Address, City, and Zip

JOHNSTON

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 31' 32.23" N 78° 16' 57.48" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 2

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 20.0/30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 10.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
0.0 ft.	23.0 ft.	2.0 in.	SCH 40	PVC

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	20.0 ft.	2.0 in.	.010	SCH 40	PVC
23.0 ft.	30.0 ft.	2.0 in.	.010	SCH 40	PVC

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
9.0 ft.	20.5 ft.	20-40	FINE SILICA SAND
22.5 ft.	30.0 ft.	20-40	FINE SILICA SAND

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	BROWN CLAYEY SILT
5.0 ft.	10.0 ft.	TAN CLAYEY SILT
10.0 ft.	15.0 ft.	ORANGE SILTY SANDY CLAY
15.0 ft.	25.0 ft.	ORANGE/TAN SAND/COBBLES
25.0 ft.	30.0 ft.	GRAY SAND/COBBLES
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 9.0 FT & 20.5 TO 22.5 FT

2 WELLS IN SAME BORING

22. Certification:

Signature of Certified Well Contractor

09/30/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

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SUBMITTAL INSTUCTIONS

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1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX B

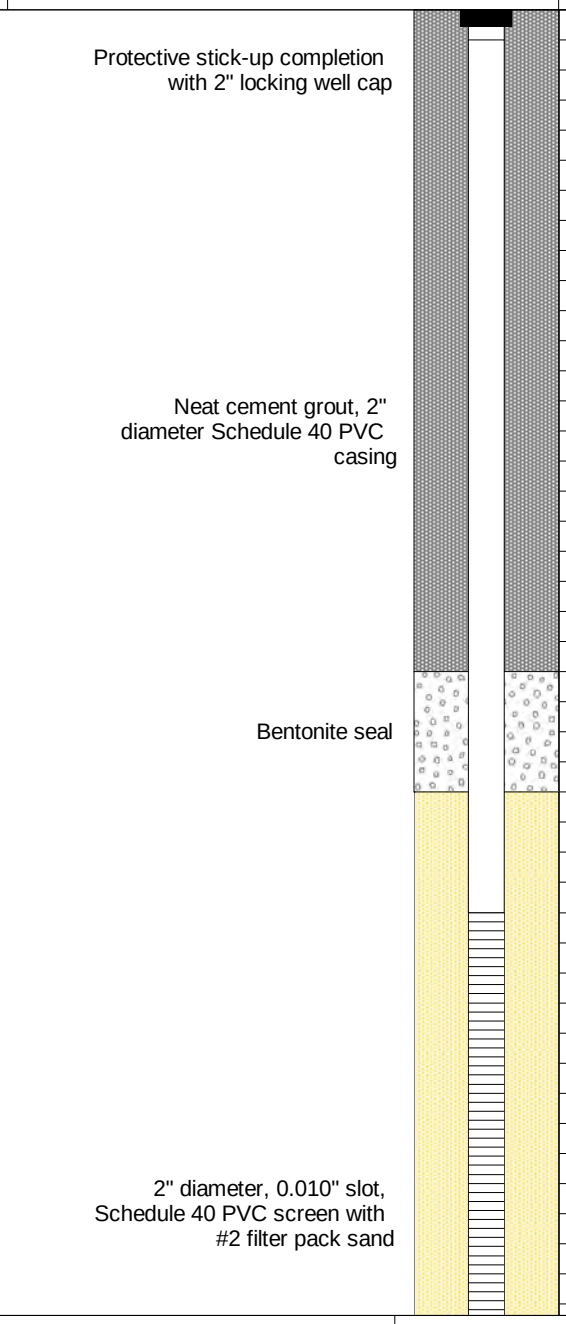
BORING LOGS

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-16

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 25'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647345.96	EASTING: 2213007.05
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	Blows per 6"	DESCRIPTION OF MATERIALS
0–3					Hand Cleared.
4–6			100%	2, 4, 6, 7	ML — Orange and tan clayey silt. Dry.
9–11			<5%	3, 5, 3, 3	CL — Dark brown clay. Wet.
14–16			100%	2, 4, 7, 8	SP — Orange and tan fine grained quartz sand. Well sorted, damp. GW — Orange and tan medium grained quartz sand with round coarse gravel and cobble. Saturated.
19–21			50%	2, 2, 3, 3	GW — Same as above.



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-16

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 25'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647345.96	EASTING: 2213007.05
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	Blows per 6"	DESCRIPTION OF MATERIALS	DEPTH (ftbgs)
22			100%			22
23				3	GW Same as above.	23
24				4		24
				3		
25				3		25

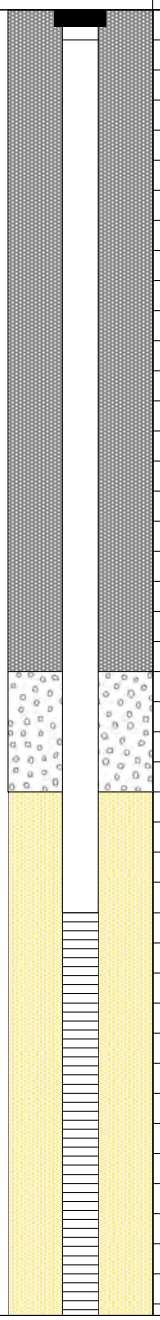
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-17

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 26'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647213.97	EASTING: 2213032.89
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	Blows per 6"		DESCRIPTION OF MATERIALS
0–4						Hand Cleared.
4–6			100%	2, 5, 8, 6	CL	Orange and tan mottled grey silty clay. Soft, dry.
6–8			100%	3, 3, 6, 6	CL	Orange and tan mottled grey clay. medium stiff, dry.
8–10			75%	2, 3, 6, 8	CL / SP	Orange and tan mottled grey clay. medium stiff, dry. / Orange and tan fine grained quartz sand. Wet.
10–12			50%	2, 3, 3, 2	SP	Orange and tan fine grained quartz sand. Wet.
12–13			100%	2, 2	SP	Orange and tan fine grained quartz sand. Wet. / Grey fine grained quartz sand. Wet.
13–14			100%	3, 5	SP, SC	Dark brown fine grained quartz sand. Wet. / Grey clayey fine sand. Wet.
14–15			100%	6, 3, 3, 6	SC, SP, CL	Orange and tan clayey fine sand. Wet. / Orange and tan medium grain quartz sand. Wet. / Orange, tan and grey mottled clay. Soft.
15–16			100%	3	SP	Orange and tan medium grain quartz sand. Wet.
16–18			100%	3, 3, 4, 5	GP	Orange and tan coarse grained quartz sand with fine gravel. Saturated.
18–20			100%	2, 3, 4, 5	SP	Orange and tan medium grained, well sorted sand. Subangular, saturated.
20–21			100%	2, 2, 2	GP	Orange and tan medium grained sand with fine to coarse subround to round gravel throughout. Saturated.

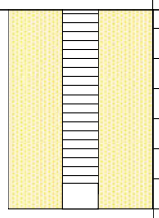


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-17

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 26'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647213.97	EASTING: 2213032.89
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	Blows per 6"		DESCRIPTION OF MATERIALS
22				2	GP	Same as above, grey.
			100%	3		
23				2	GP	Orange and tan medium grained sand with fine to coarse subrounded gravel throughout. Saturated.
				2		
24				2	GP	Same as above, grey.
			100%	1	GP	Orange and tan medium to coarse grained quartz sand with fine subround to round gravel. Saturated.
25				1		
				2	SP	Grey fine grained sand.
26				5	SW	Tan poorly sorted fine sand and round gravel mixture. Saturated.



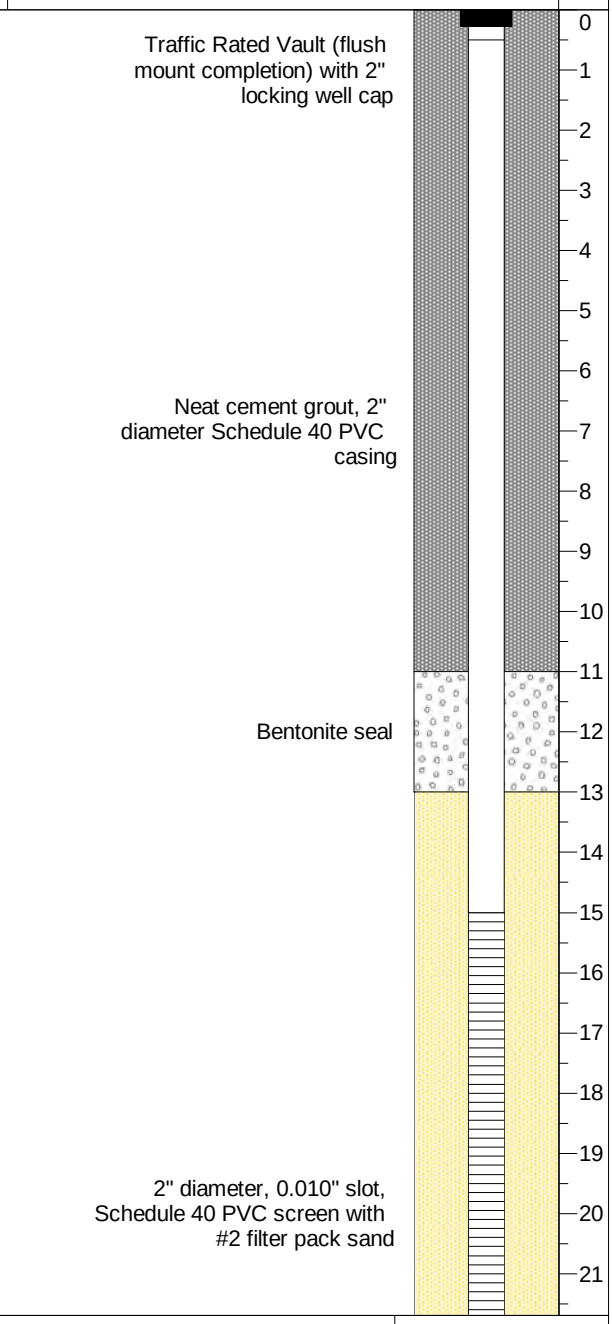
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-18

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 26'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647291.13	EASTING: 2213414.58
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	Blows per 6"		DESCRIPTION OF MATERIALS
0–4						Hand Cleared.
4–6			100%	5, 5, 6, 5	CL	Grey and tan mottled clay. Stiff, dry.
6–8			25%	3, 6, 6, 8	CL	
8–10			100%	2, 3, 3, 6	CL	Grey silty clay. Medium stiff, dry.
10–11			75%	2, 2	SC	Orange and tan clayey fine sand. Wet.
11–12				2, 2	SC	Orange and tan very fine sand with some clay. Saturated.
12–13			100%	2, 3, 2, 3	CL / ML	Grey soft clay. Saturated. / Orange and tan fine grained, well sorted quartz sand. Saturated.
13–16			100%	3, 6, 8, 6	SP	Medium grained quartz sand with minor subrounded coarse sand. Saturated.
16–18			100%	3, 3, 3, 3	SP	
18–20			75%	2, 5, 7, 5	SP	Medium grained quartz sand. Saturated.
20–21			75%	2, 2, 3	SP	



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-18

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 26'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647291.13	EASTING: 2213414.58
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	Blows per 6"	DESCRIPTION OF MATERIALS
22				2	
			75%	2	
23				1	
				3	
				3	
24			75%	3	SP — Same as above with coarse grained angular to round sand. Saturated.
				2	
25				1	
				3	
26					

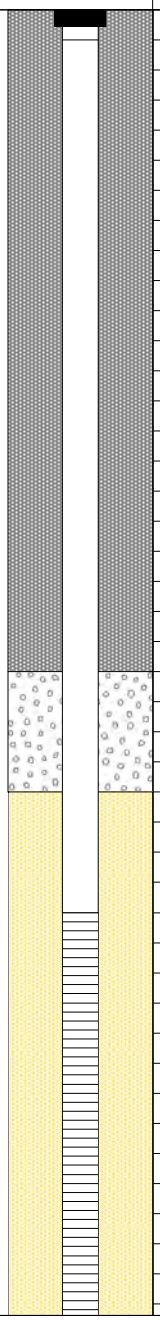
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-19

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 25'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 646954.96	EASTING: 2213388.08
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	Blows per 6"		DESCRIPTION OF MATERIALS
0–4						Hand Cleared.
4–6			75%	7, 8, 8, 8	ML	Brown and grey silt. Moist.
6–8			80%	8, 7, 7, 7	CL	Brown and grey silty clay. Moist.
8–10			60%	5, 7, 8, 9	ML	Brown and grey silt. Moist.
10–12			10%	6, 7, 10, 11	SP	Yellowish brown medium grained sand. Wet.
12–14			100%	4, 4, 5, 8	SP	White medium grained sand. Saturated. Brown to grey clay from 12.5-13'.
14–16			100%	2, 2, 2, 2	SP	White medium grained sand. Saturated. Clay from 15.5-16'.
16–18			100%	2, 2, 2, 3	SP	
18–20			100%	2, 2, 2, 2	SP	
20–21			100%	2, 2, 2	SP	



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-19

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 25'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 646954.96	EASTING: 2213388.08
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	Blows per 6"	DESCRIPTION OF MATERIALS	DEPTH (ft bgs)
22			100%	2, 2, 2, 2, 3		22
23						23
24			100%	2, 2	SP Tan to white coarse sand. Saturated.	24
25						25

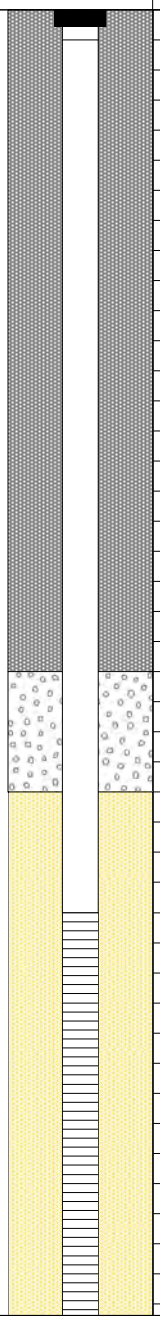
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-20

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 25'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647237.41	EASTING: 2213207.95
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	Blows per 6"		DESCRIPTION OF MATERIALS
0–4						Hand Cleared.
4–6			60%	3, 4, 7, 10	ML	Brown and grey silt. Moist.
6–8			95%	5, 5, 11, 13	CL	Brown and grey silty clay. Moist.
8–10			75%	5, 5, 7, 8	ML	Brown and grey silt. Moist.
10–12			50%	4, 4, 5, 5	SP	Yellowish brown medium grained sand. Wet.
12–14			60%	5, 6, 9, 20	SP	White medium grained sand. Saturated. Brown to grey clay from 12.5-13'.
14–16			10%	4, 5, 7, 12	SP	White medium grained sand. Saturated. Clay from 15.5-16'.
16–18			10%	5, 6, 12, 14	SP	
18–20			<5%	8, 8, 9, 9	SP	
20–21			100%	7, 7, 8	SP	



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring MW-20

BORING LOCATION:	Eaton Selma, Selma NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 25'	SCREEN INTERVAL (ftbgs): 15-25'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647237.41	EASTING: 2213207.95
SAMPLING METHOD:	Split Spoon	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	Blows per 6"	DESCRIPTION OF MATERIALS	DEPTH (ft bgs)
22			100%	8		22
				2		
23				2		23
				3		
24				3		24
			50%		SP Tan to white coarse sand. Saturated.	
25						25

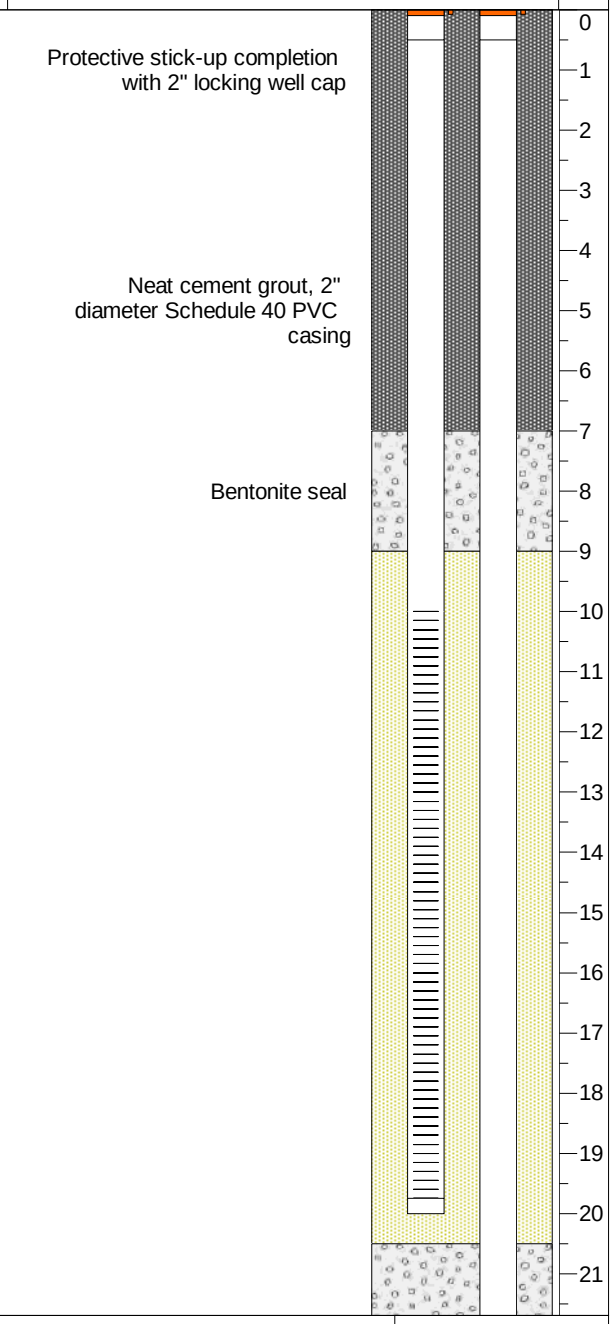
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-1A / IW-1B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647379.9124	EASTING: 2213014.0276
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–1					SP — Sandy fill.
1–6					ML — Light brown clayey silt. Dry.
6–9					ML — Yellowish orange clayey silt. Moist.
9–15					ML — Light brown clayey silt. Moist.
15–20					SP — Yellowish tan fine to medium grained sand. Wet.



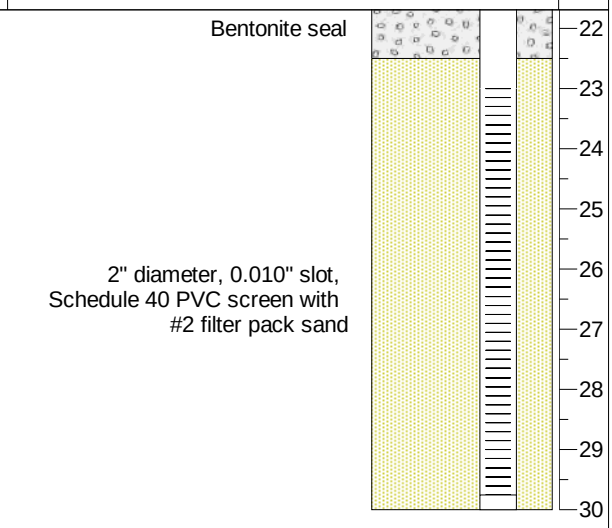
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-1A / IW-1B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647379.9124	EASTING: 2213014.0276
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22–23					SP — Yellowish tan medium grained sand. Saturated.
23–25					
25–28					SP — Yellowish tan medium to coarse grained sand. Saturated.
28–29					CL — Dark grey clay. Dry.
29–30					

End of Boring.

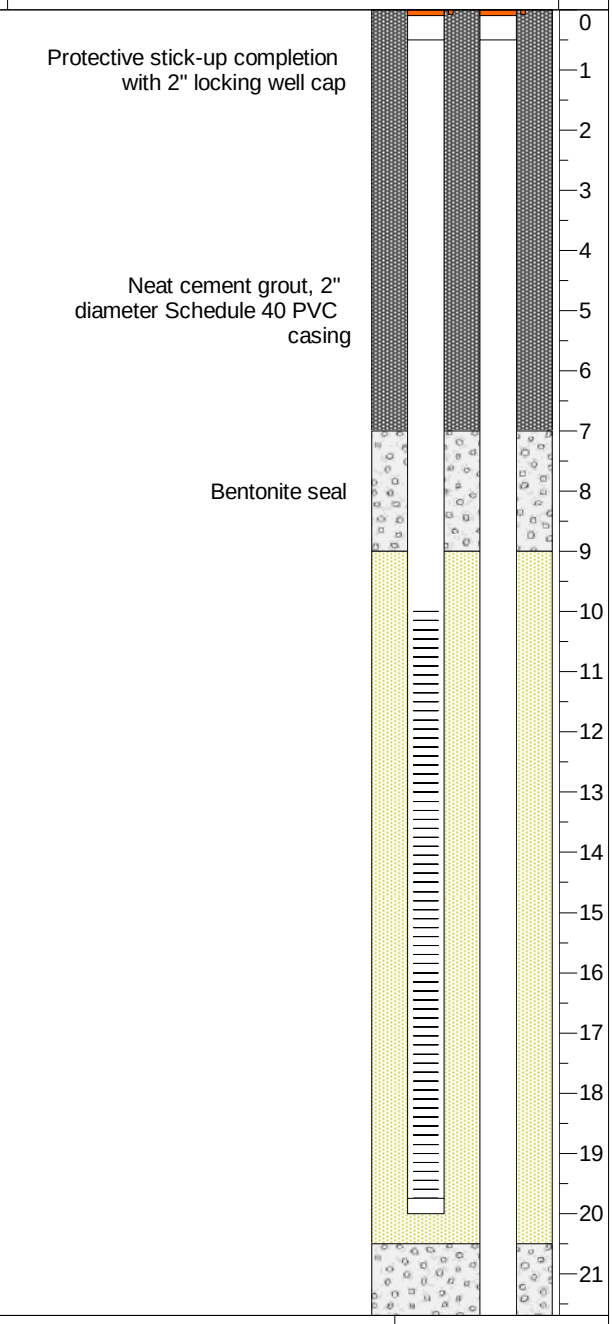


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-2A / IW-2B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 6/16/20130
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647362.0329	EASTING: 2212991.5094
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0–1					SP	Topsoil and sandy fill.
1–8					ML	Brown silt. Moist.
8–10					ML	Yellowish brown silt. Moist to wet, becoming clayey silt with depth.
10–21					SP	Yellowish brown fine to medium grained sand. Wet.

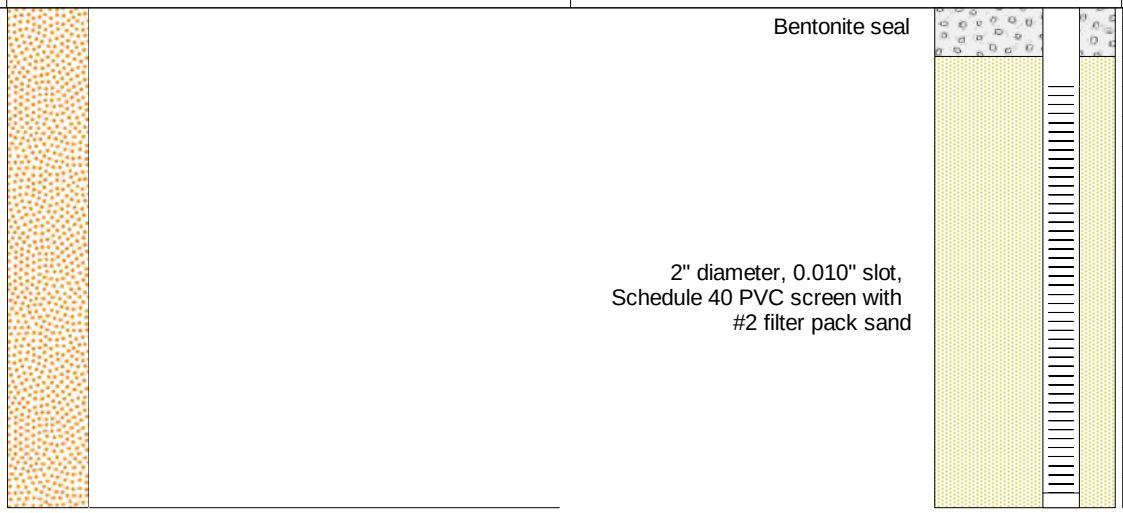


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-2A / IW-2B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 6/16/20130
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647362.0329	EASTING: 2212991.5094
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS	DEPTH (ft bgs)
22					Bentonite seal	22
23						23
24						24
25						25
26					2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand	26
27						27
28						28
29						29
30						30



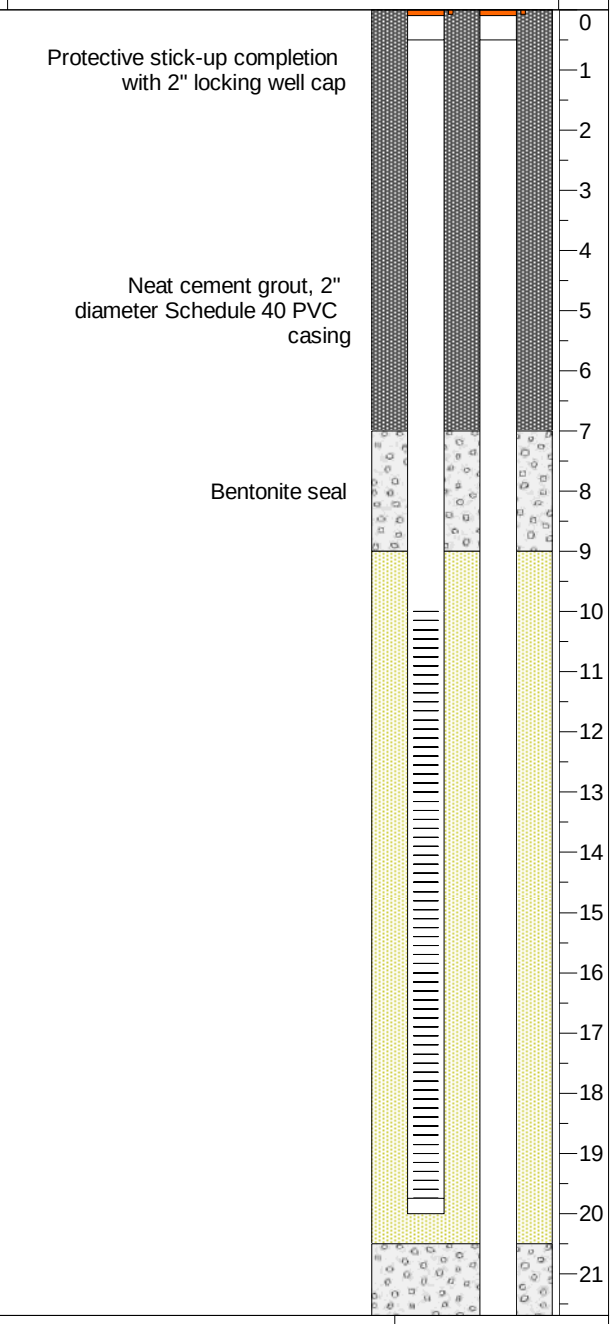
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-3A / IW-3B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647359.7971	EASTING: 2213021.6407
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–6					ML — Tan clayey silt. Dry.
12–15					SM — Orange and tan fine sand with some silt. Dry.
15–17					SM — Same as above, saturated.
17–21					SP — Orange and tan medium grained sand with some fine gravel. Saturated.



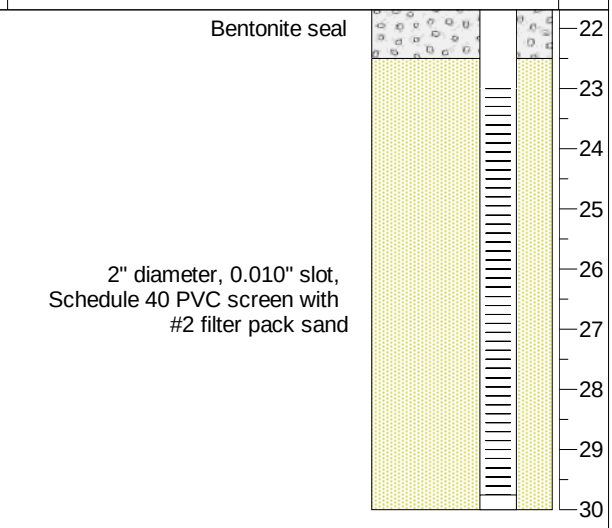
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-3A / IW-3B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647359.7971	EASTING: 2213021.6407
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Same as above.
25					
26					
27					SP — Grey medium to coarse grained sand with fine and coarse gravel. Saturated.
28					
29					CL — Grey clay with some fine sand. Soft.
30					

End of Boring.

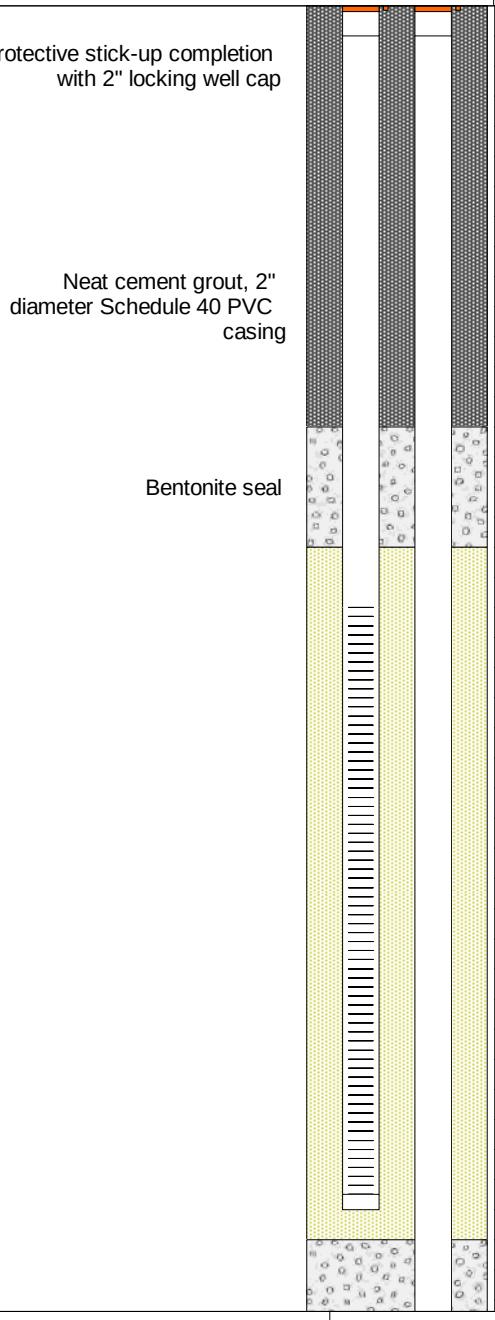


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-4A / IW-4B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647360.114	EASTING: 2213051.3463
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1					
2					
3					
4					
5					
6					
7					ML — Tan clayey silt. Dry.
8					
9					
10					
11					
12					
13					
14					SM — Orange and tan fine sand with silt. Dry.
15					
16					SM — Same as above, saturated.
17					
18					
19					SP — Orange and tan medium grained sand with some fine gravel. Saturated.
20					
21					



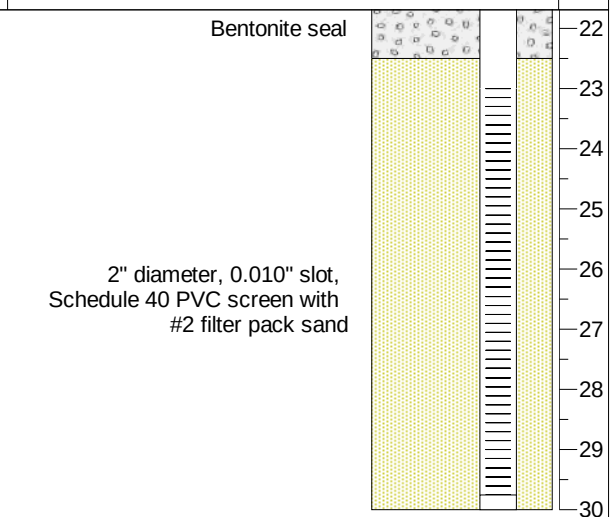
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-4A / IW-4B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647360.114	EASTING: 2213051.3463
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23				SP	Grey medium to coarse grained sand with some fine gravel. Saturated.
24					
25				CL	Grey clay with some fine sand. Moist.
26					
27					
28					
29					
30					

End of Boring.

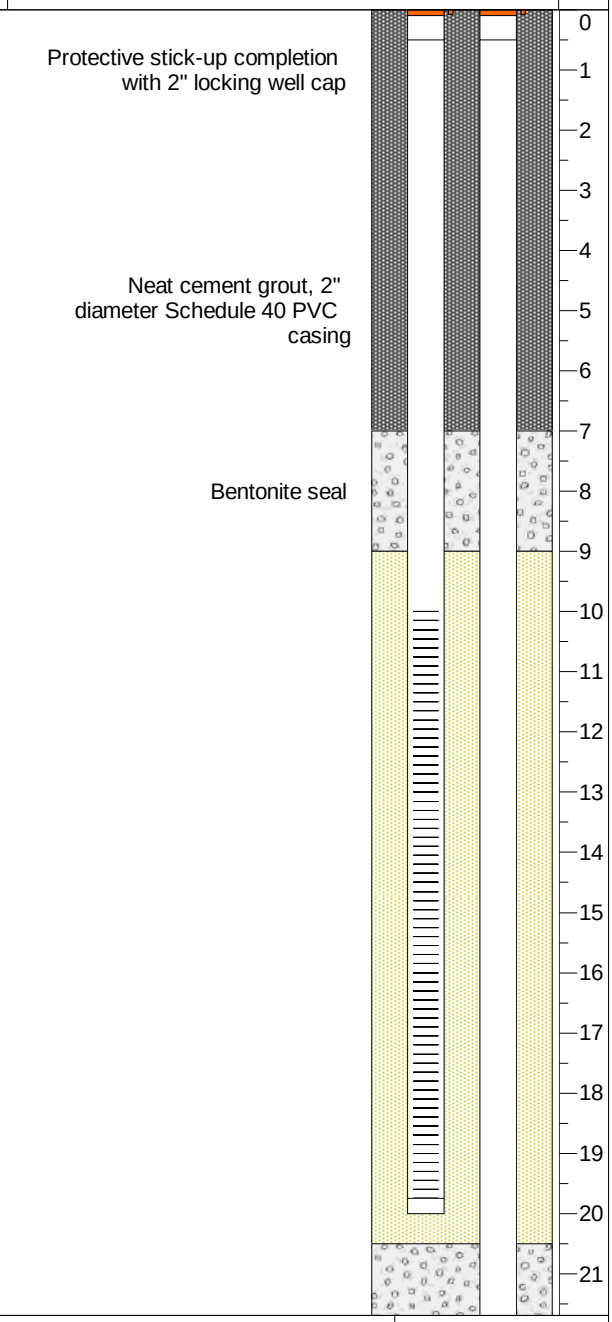


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-5A / IW-5B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647342.7874	EASTING: 2213039.6317
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–5					ML — Tan and brown silt. Dry
10–12					SM — Orange and tan fine sand with some silt. Moist to wet.
14–18					SM — Same as above, saturated.
19–21					SP — Orange and tan medium to coarse grained sand with fine and coarse grained gravel. Saturated.



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-5A / IW-5B

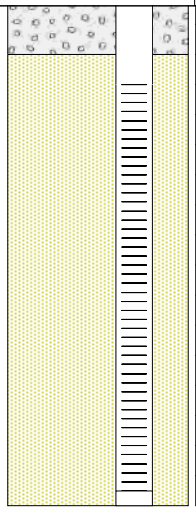
BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647342.7874	EASTING: 2213039.6317
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27					
28					
29					
30					

SP — Same as above.

CL — Grey clay. Stiff.

End of Boring.

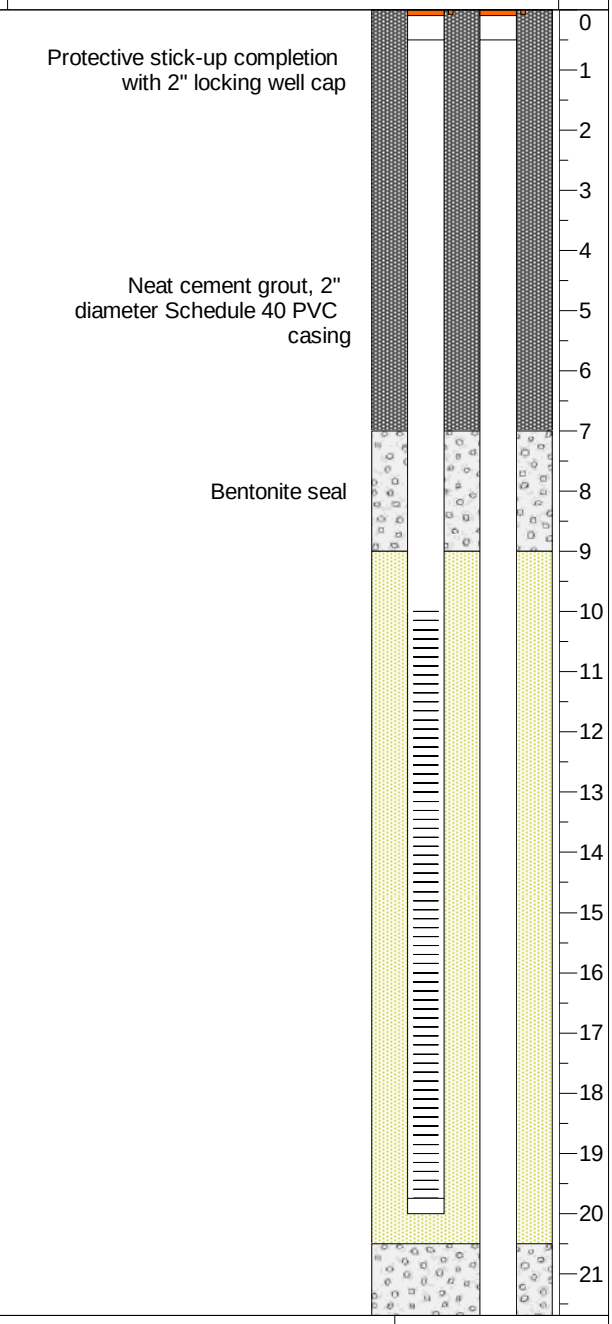


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-6A / IW-6B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647332.2121	EASTING: 2212990.3368
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–9					ML — Brown and tan silt with some clay. Dry.
10–15					SP — Orange and tan fine to medium grained sand. Moist.
15–21					SP — Same as above, saturated.



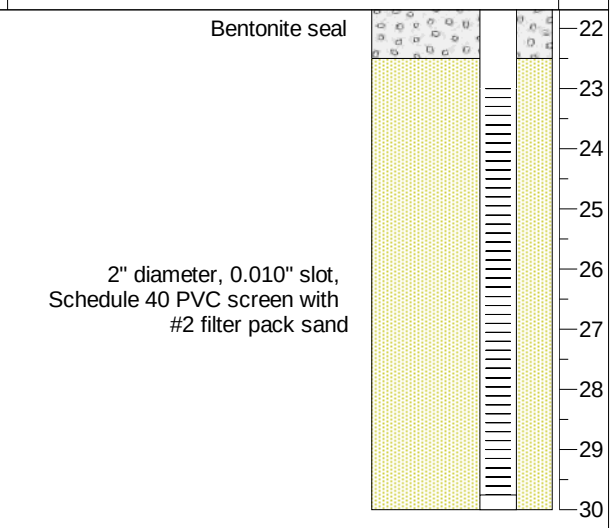
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-6A / IW-6B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647332.2121	EASTING: 2212990.3368
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26				SP	Same as above, grey.
27					
28					
29				CL	Grey clay with some silt. Moist.
30					

End of Boring.

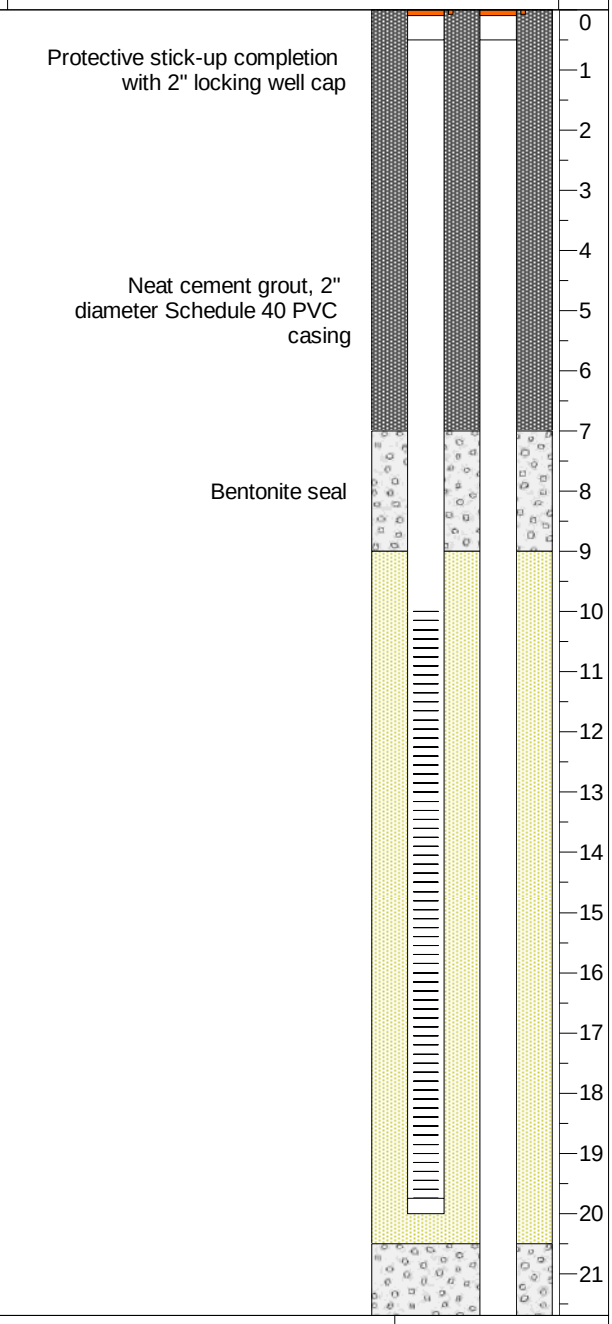


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-7A / IW-7B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647331.1848	EASTING: 2213021.0147
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–9					ML — Brown and tan silt with some clay. Dry.
10–21					SP — Orange and tan medium to coarse grained sand. Saturated.



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-7A / IW-7B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647331.1848	EASTING: 2213021.0147
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS		DEPTH (ft bgs)
22						Bentonite seal	22
23							23
24							24
25							25
26					SP Grey coarse grained sand with fine to coarse gravel. Saturated.	2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand	26
27							27
28							28
29							29
30							30

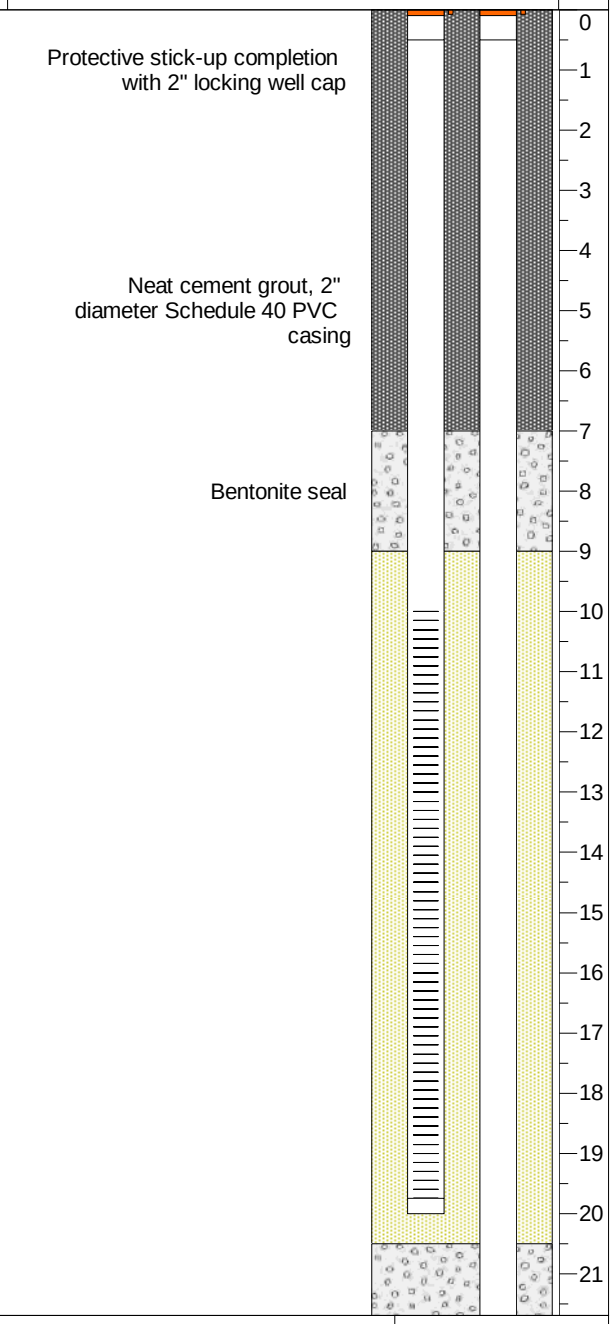
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-8A / IW-8B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647330.3045	EASTING: 647330.3045
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–9					ML — Brown and tan silt with some clay. Dry.
10–13					SP — Orange and tan fine sand with some silt. Wet.
14–19					SP — Same as above, saturated.
20–21					SP — Orange and tan medium grained sand with fine to coarse gravel. Saturated.



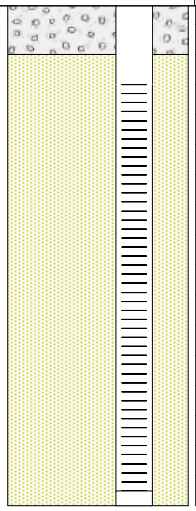
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-8A / IW-8B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647330.3045	EASTING: 647330.3045
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					Bentonite seal
23					
24					
25					
26				SW	Grey sand and gravel. Poorly sorted, saturated.
27					
28					
29				CL	Grey clay. Stiff.
30					

End of Boring.

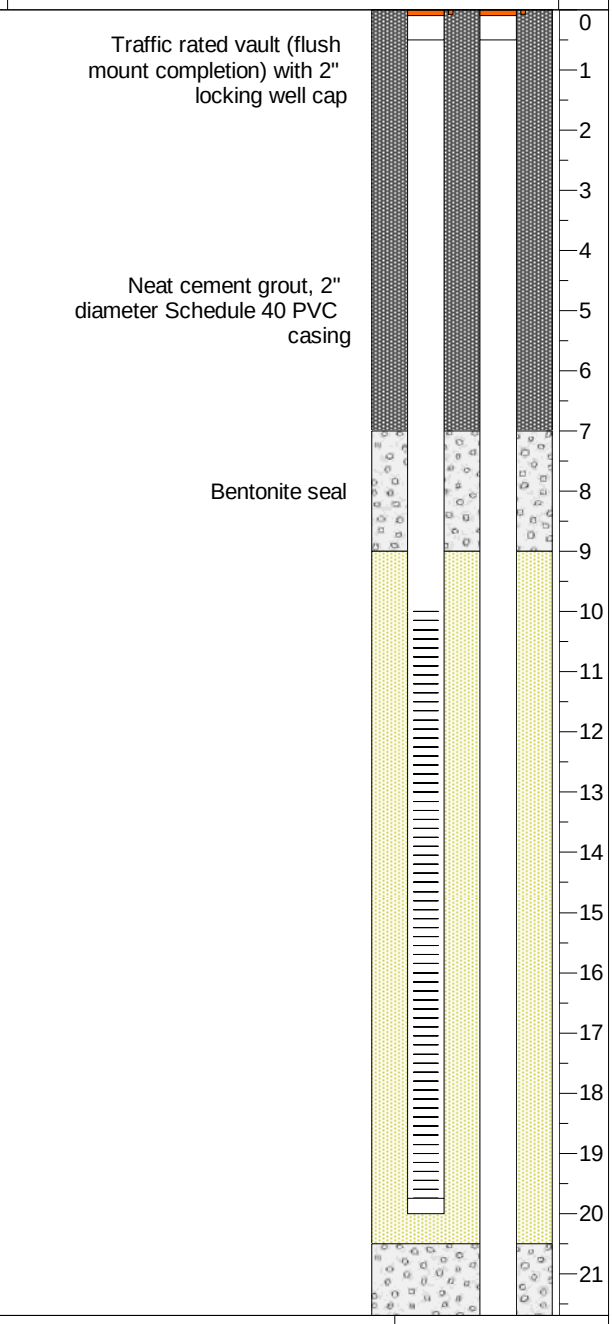


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-9A / IW-9B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647328.9684	EASTING: 2213078.5018
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0–5					CL	Dark brown silty clay. Soft, dry.
5–7					CL	Orange and tan silty clay. Dry.
7–10					SC	Tan to light orange clayey fine sand. Moist.
10–16					SM	Orange and tan fine grained quartz sand. Saturated.
16–21					SP	Tan to orange medium grained, angular quartz sand. Saturated.



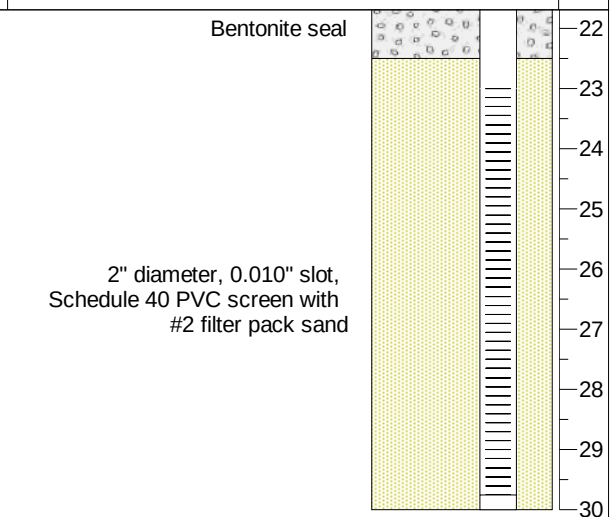
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-9A / IW-9B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647328.9684	EASTING: 2213078.5018
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					Tan to grey medium to coarse grained sand. Saturated. (SP)
26					
27					
28					
29					Grey clay. Stiff, dry. (CL)
30					

End of Boring.

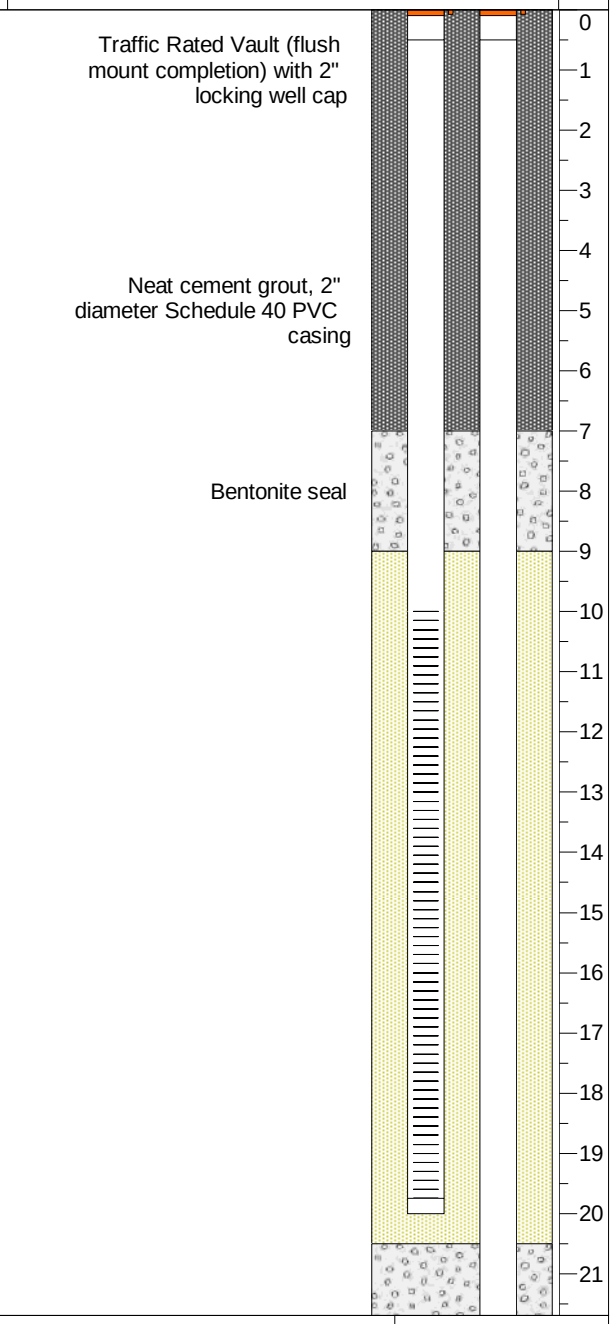


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-10A / IW-10B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647312.8669	EASTING: 2212977.8305
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0–1					SP	Sandy fill.
1–4.5					ML	Greenish grey clayey silt. Dry.
4.5–6.5					ML	Light tan clayey silt. Moist.
6.5–12					SP	Light tan to orange fine sand. Moist.
12–21					SP	Light yellowish brown fine to medium grained sand. Saturated.



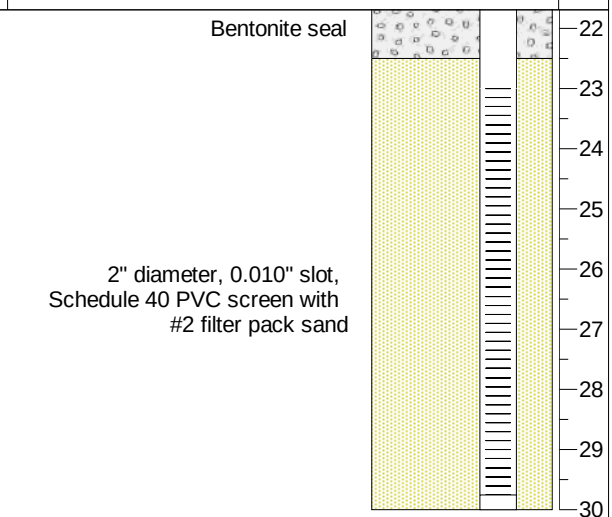
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-10A / IW-10B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647312.8669	EASTING: 2212977.8305
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27				SP	Same as above, light grey.
28					
29				CL	Light grey clay. Medium stiff.
30					

End of Boring.

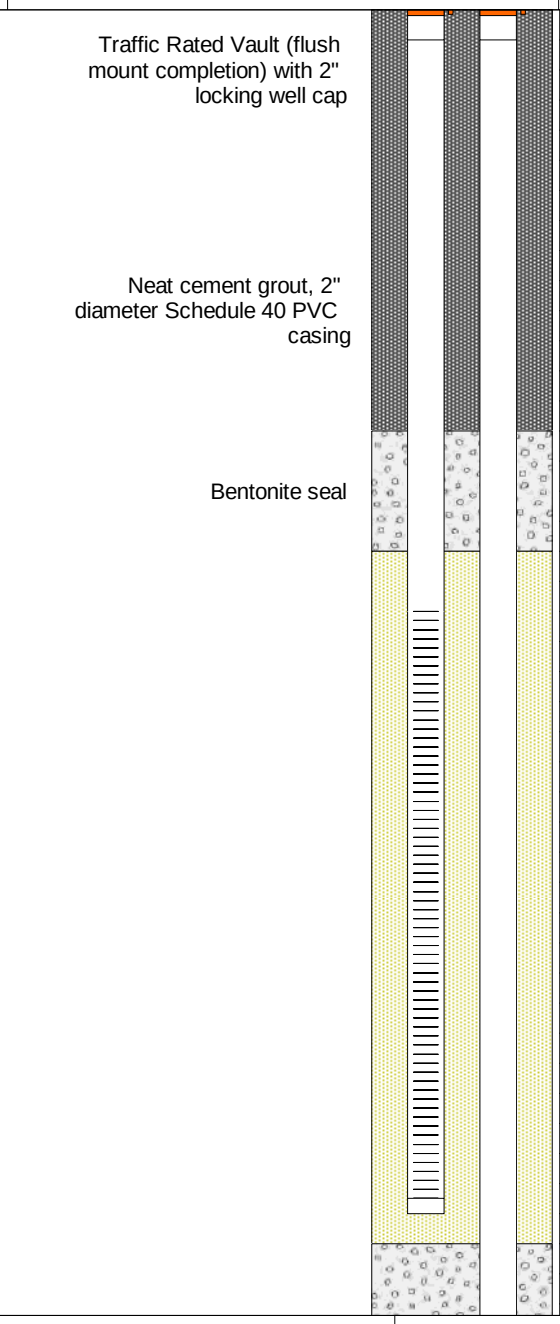


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-11A / IW-11B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647301.2634	EASTING: 2212989.8474
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–4					ML — Light brown silt with some clay. Dry.
8–9					SM — Orange and tan silty fine sand. Dry.
10–16					SP — Orange and tan fine sand. Wet.
17–21					SP — Same as above, saturated.



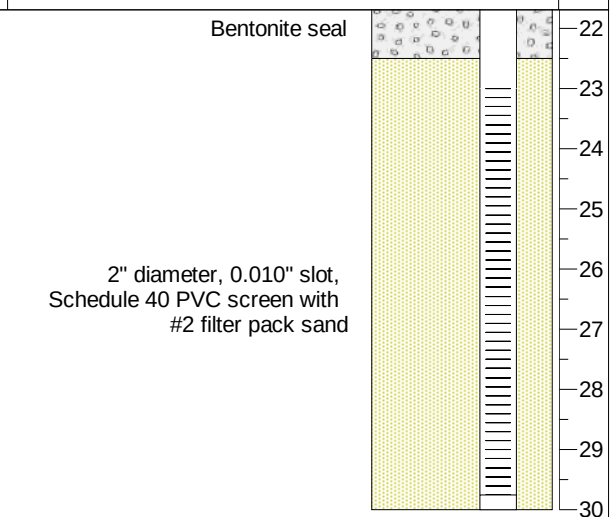
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-11A / IW-11B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647301.2634	EASTING: 2212989.8474
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Orange and tan medium grained sand. Grain size increasing with depth. Saturated.
25					
26					
27					
28					CL — Grey clay with minor subrounded coarse gravel. Moist.
29					
30					

End of Boring.

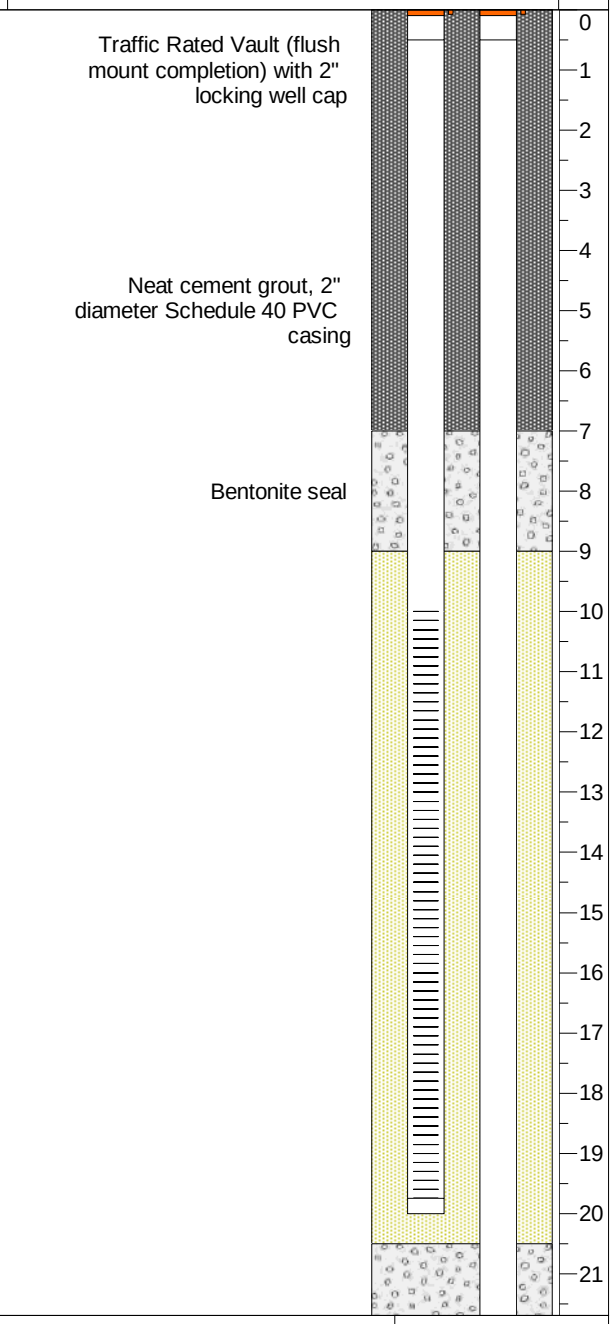


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-12A / IW-12B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647301.7516	EASTING: 2213017.1004
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–9					ML — Light brown silt with clay. Dry.
9–16					SP — Light yellow and tan fine sand with some silt. Wet.
16–21					SP — Light yellow to tan medium grained sand with fine and coarse gravel. Saturated.



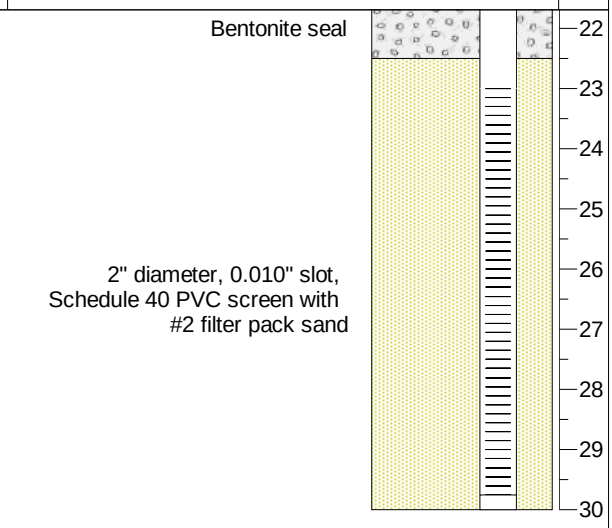
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-12A / IW-12B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647301.7516	EASTING: 2213017.1004
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					SP — Same as above, grey.
26					
27					
28					
29					CL — Grey clay. Stiff.
30					

End of Boring.

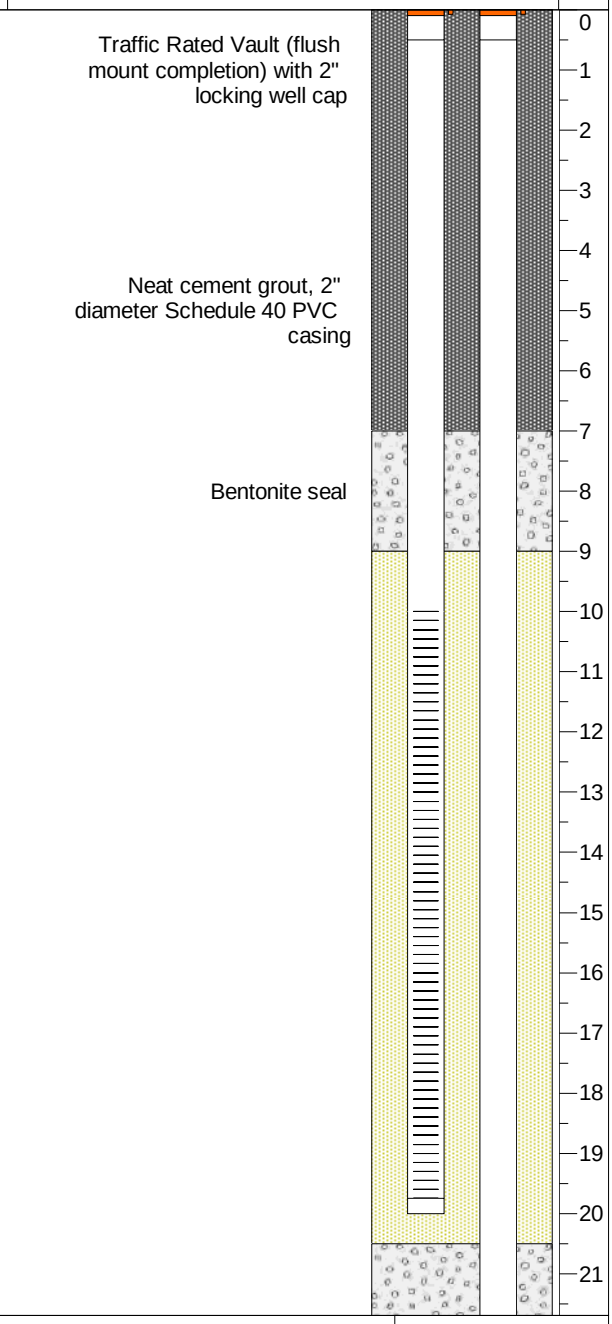


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-13A / IW-13B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647301.9595	EASTING: 647301.9595
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–10					ML — Light brown silt. Dry.
10–14					SM — Light yellow and tan silty fine sand. Moist.
14–21					SP — Light yellow and tan medium to coarse grained sand with fine to coarse gravel. Saturated.



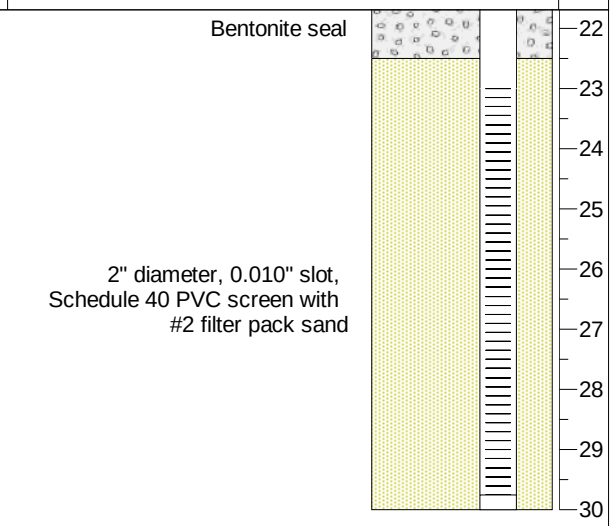
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-13A / IW-13B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647301.9595	EASTING: 647301.9595
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Same as above, grey.
25					
26					
27					CL — Grey clay. Stiff.
28					
29					
30					

End of Boring.

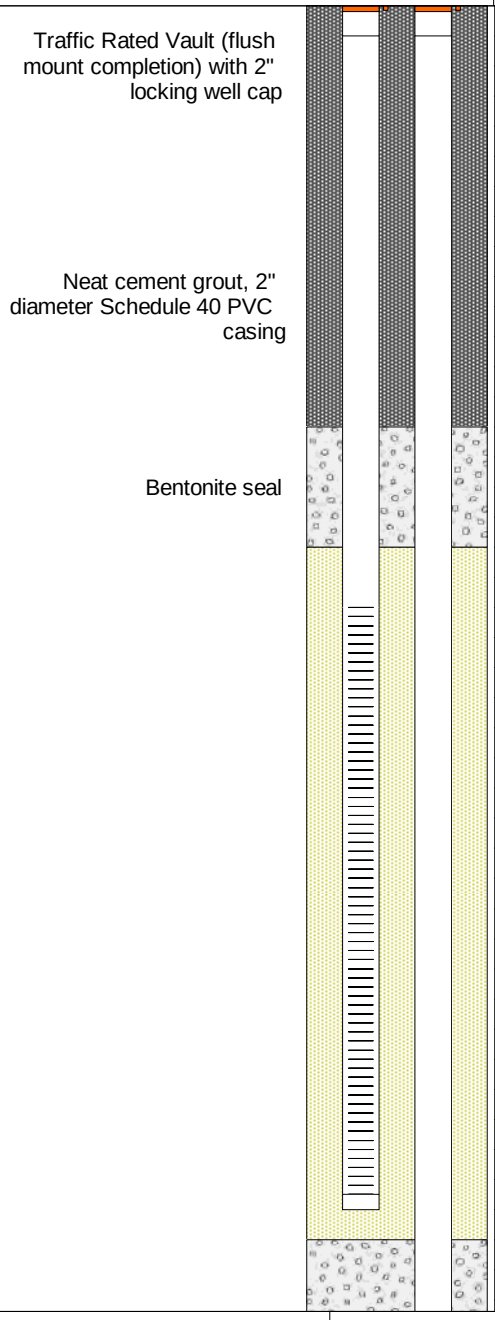


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-14A / IW-14B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647299.6388	EASTING: 647299.6388
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–12					ML — Light brown clayey silt. Dry to moist.
12–18					SM — Light yellow and tan silty fine sand with clay. Moist.
19–21					SM — Same as above, saturated.



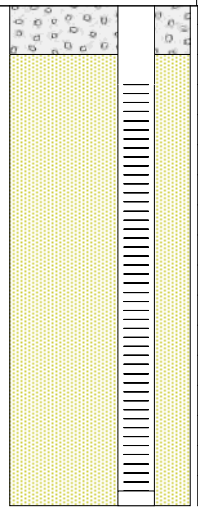
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-14A / IW-14B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647299.6388	EASTING: 647299.6388
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22–23–24–25					SM — Same as above.
26–27					SP — Light yellow to tan medium to coarse grained sand. Saturated.
28–29–30					CL — Grey clay. Very stiff, moist.

End of Boring.

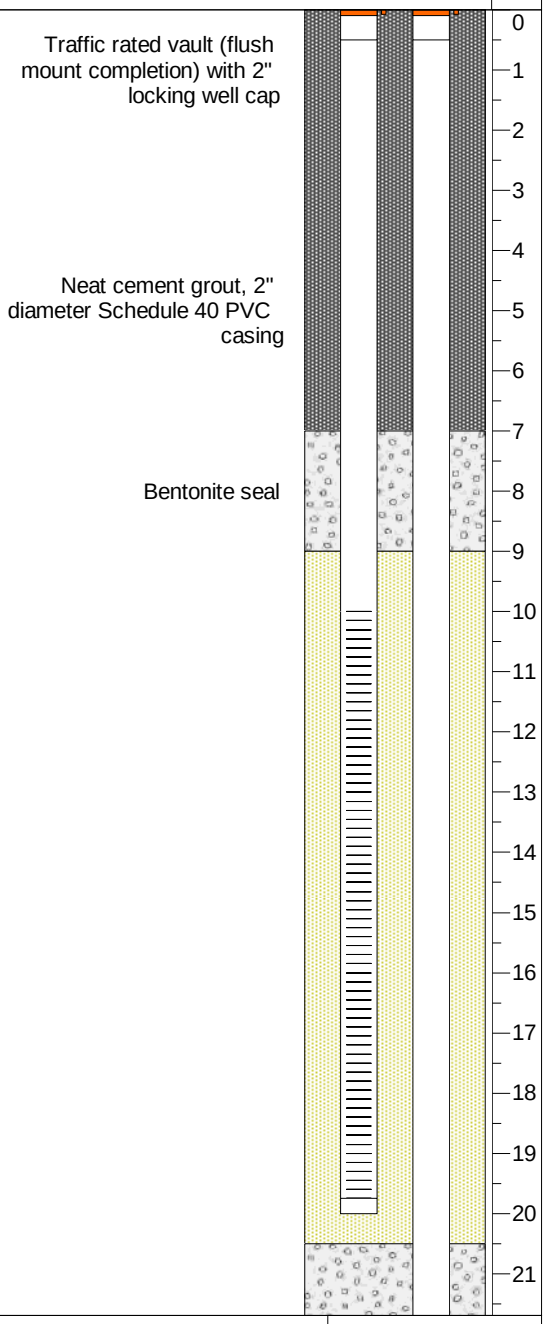


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-15A / IW-15B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647299.0801	EASTING: 2213110.1042
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt and sandy fill.
1–6				SC	Orange and tan clayey fine sand. Dry.
6–13				SC	Same as above, Moist.
13–20				SP	Orange and tan fine to medium grained sand. Grain size increasing with depth. Saturated.

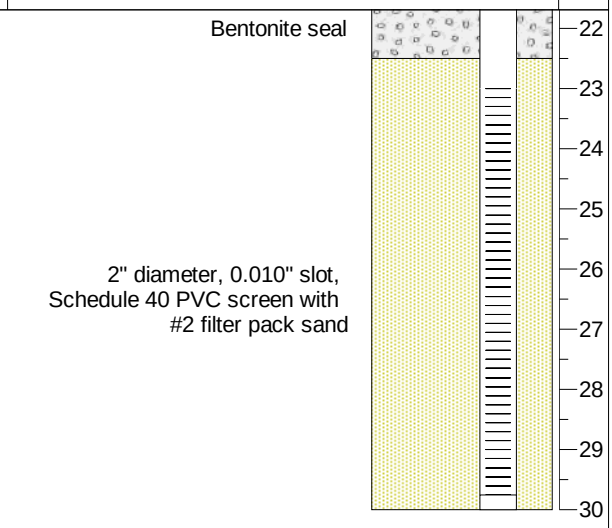


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-15A / IW-15B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647299.0801	EASTING: 2213110.1042
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					SP — Same as above, grey.
23					
24					
25					CL — Grey clay. Medium stiff, dry.
26					
27					
28					
29					
30					



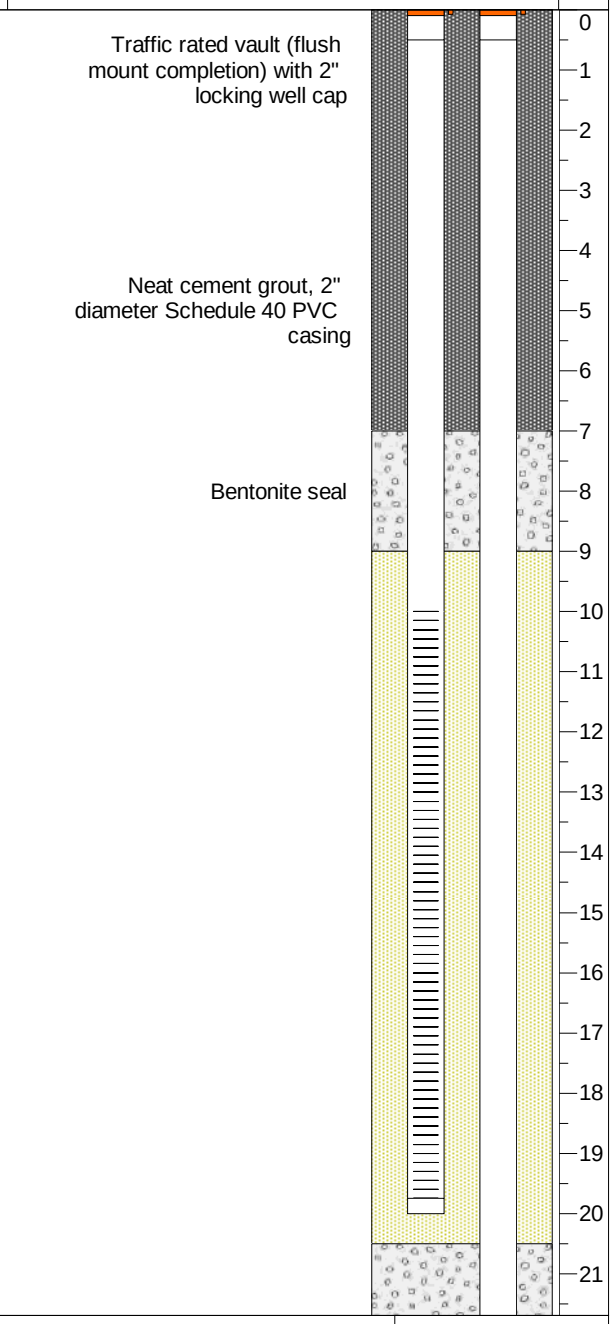
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-16A / IW-16B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647300.6415	EASTING: 647300.6415
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt and sandy fill.
1–4				ML	Dark brown clayey silt. Dry.
5–7				SC	Orange and tan clayey fine sand. Dry.
7–13				SC	Same as above. Moist.
13–21				SP	Orange and tan medium to coarse grained sand with cobble. Saturated.



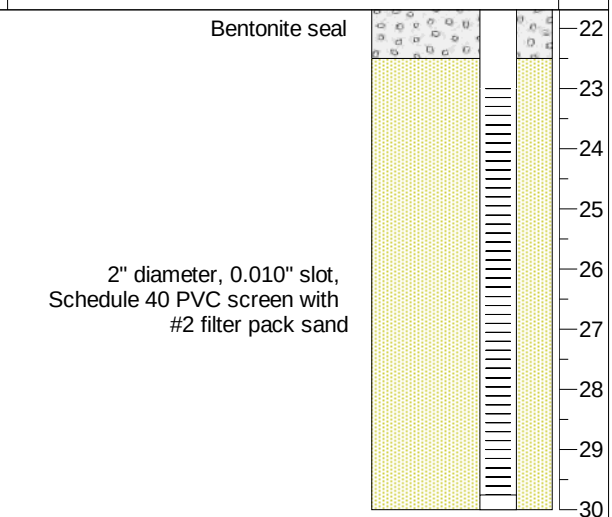
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-16A / IW-16B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647300.6415	EASTING: 647300.6415
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Same as above, grey.
25					
26					
27					
28					CL — Grey clay. Dry.
29					
30					

End of Boring.

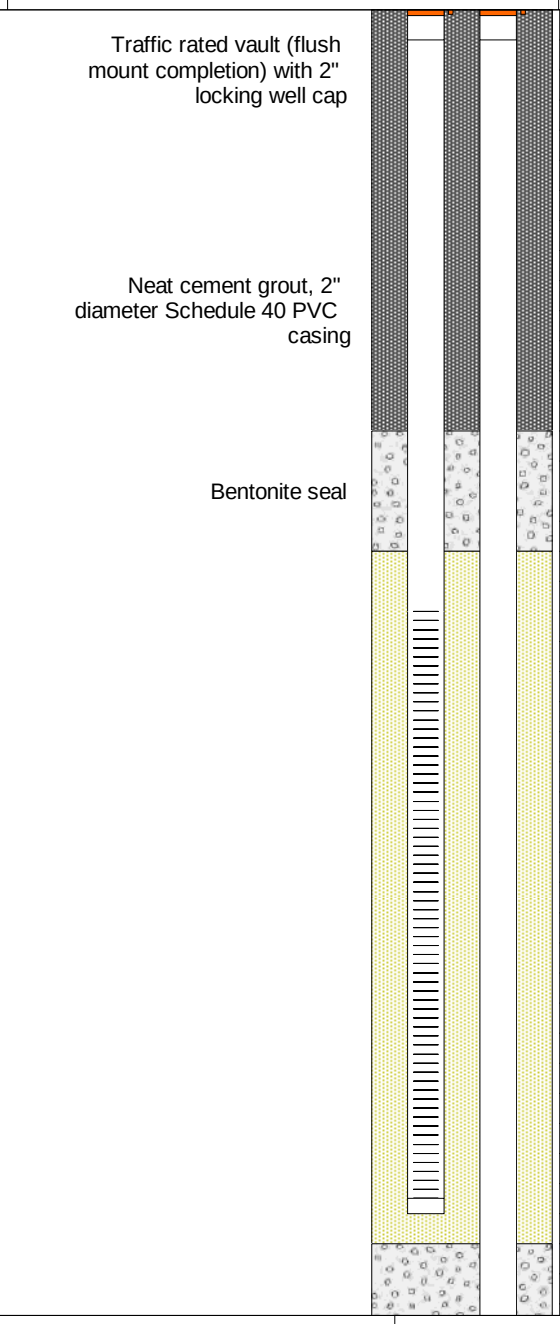


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-17A / IW-17B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647297.9217	EASTING: 2213170.1474
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0–1						Asphalt and sandy fill.
1–6					CL	Tan to light yellow clay with silt. Dry.
6–8					CL	Same as above, moist.
8–13					SM	Yellow and orange silty fine sand. Saturated.
13–21					SP	Orange and tan medium to coarse grained sand. Saturated.



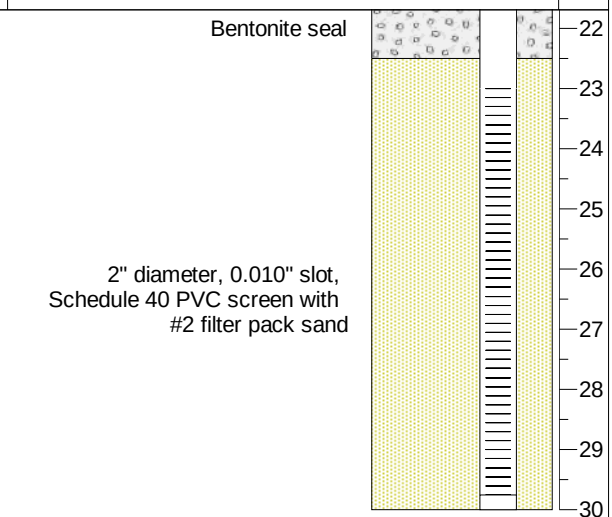
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-17A / IW-17B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647297.9217	EASTING: 2213170.1474
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27				SP	Same as above, grey.
28					
29				CL	Grey clay. Stiff, dry.
30					

End of Boring.

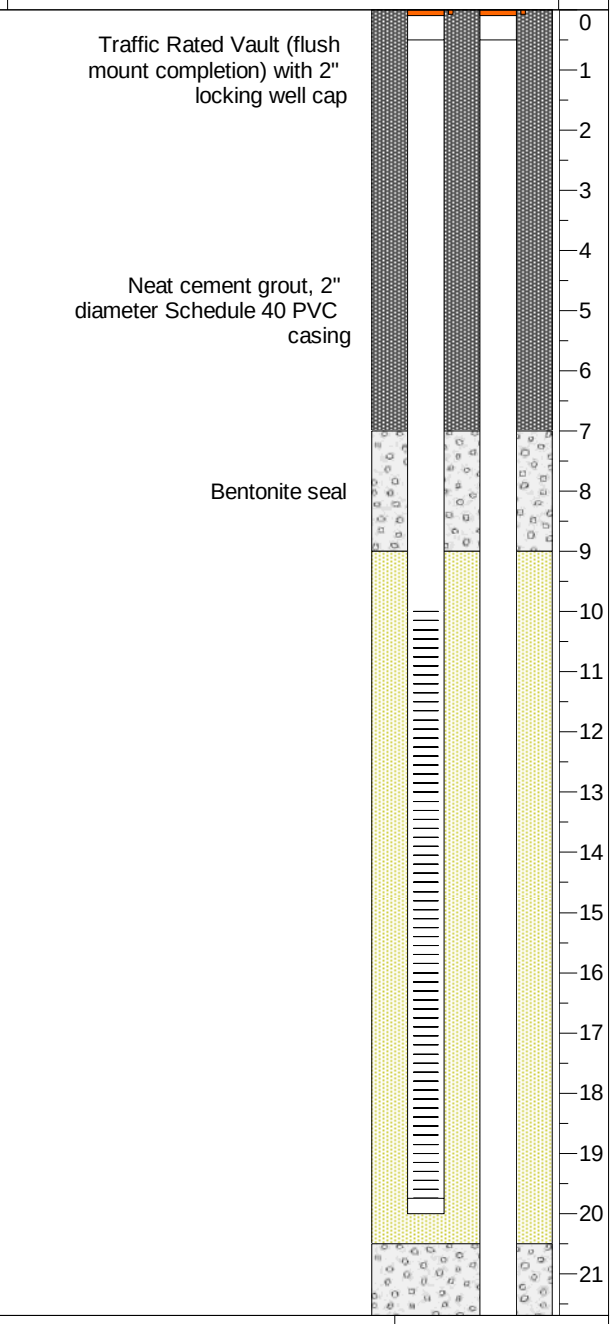


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-18A / IW-18B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647297.2688	EASTING: 2213200.7238
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–6					ML	Brown silt with roots. Dry.
6–10					ML	Yellowish brown clayey silt. Moist.
10–21					SP	Yellowish brown medium grained sand. Wet.



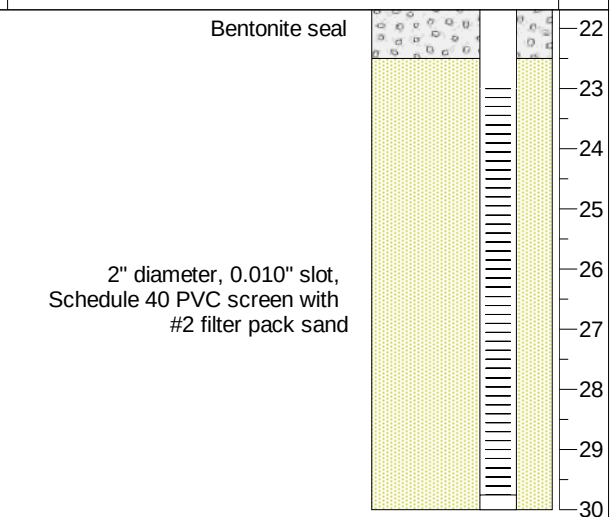
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-18A / IW-18B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647297.2688	EASTING: 2213200.7238
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26				SP	Grey coarse sand and gravel. Saturated.
27					
28				CL	Grey clay.
29					
30					

End of Boring.

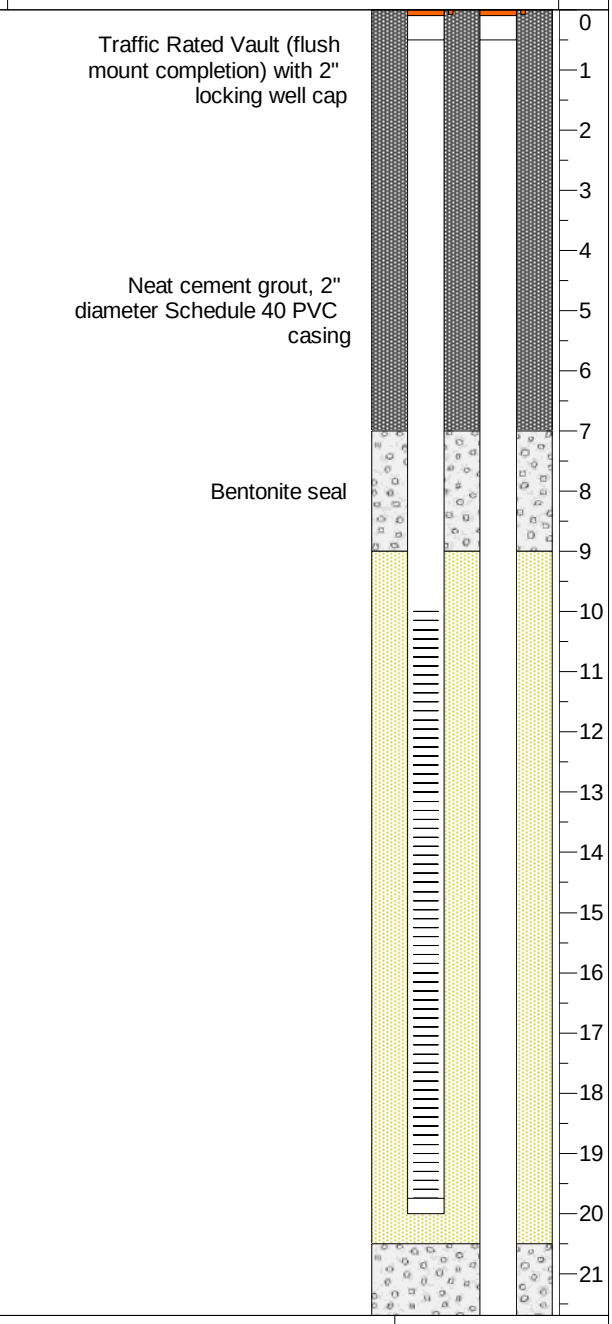


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-19A / IW-19B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647299.7262	EASTING: 2213231.0372
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–4					ML	Light brown silt with roots. Dry.
5–8					ML	Yellowish brown clayey silt. Moist.
9					CL	Light tan clay. Moist.
10–21					SP	Yellowish medium grained sand. Wet.



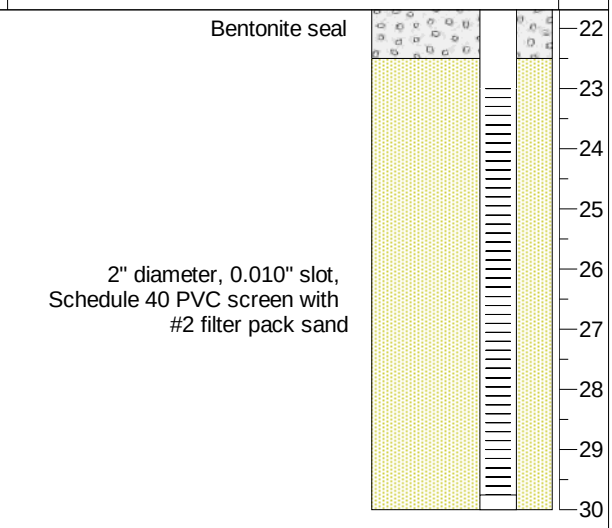
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-19A / IW-19B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647299.7262	EASTING: 2213231.0372
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					SP — Same as above.
26					
27					
28					
29					CL — Grey clay.
30					

End of Boring.

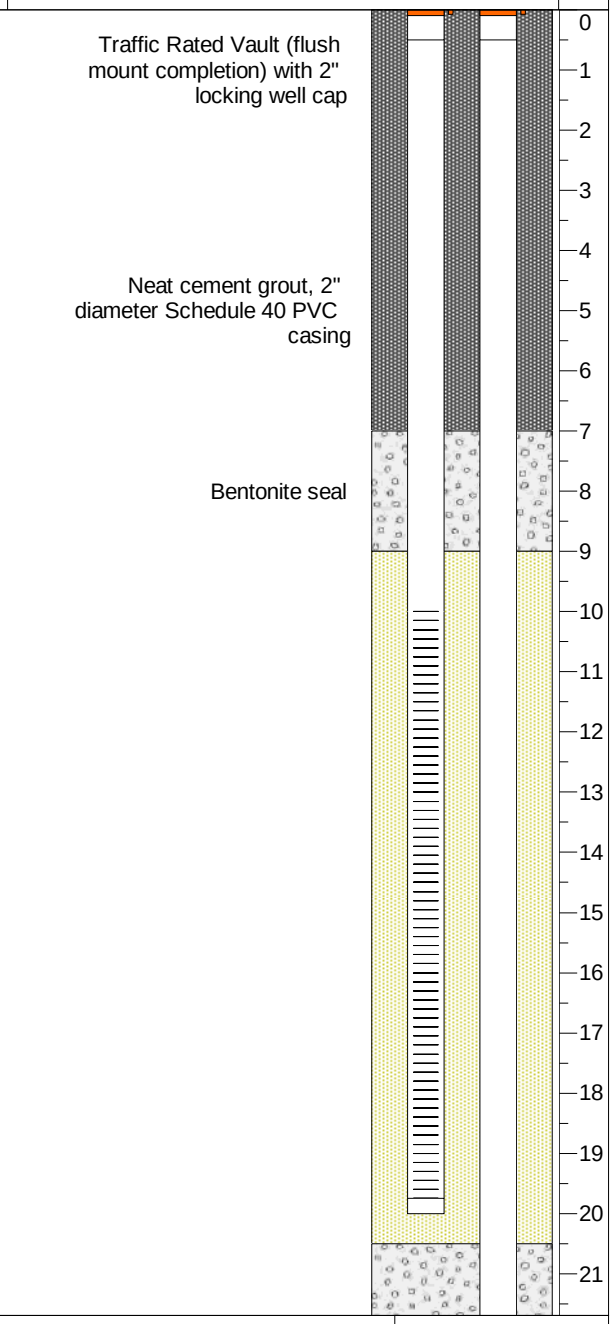


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-20A / IW-20B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647296.148	EASTING: 2213260.0113
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–4					ML	Brown silt with roots. Dry.
5–10					ML	Yellowish brown clayey silt. Moist.
11–21					SP	Yellowish brown medium grained sand. Wet.



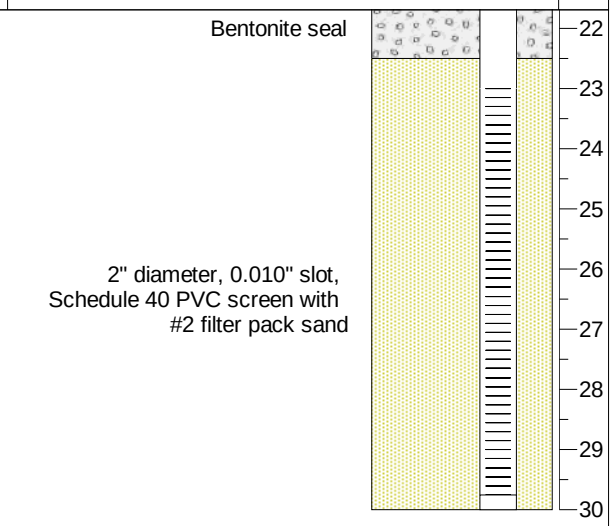
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-20A / IW-20B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647296.148	EASTING: 2213260.0113
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27					
28					CL Grey clay.
29					
30					

End of Boring.

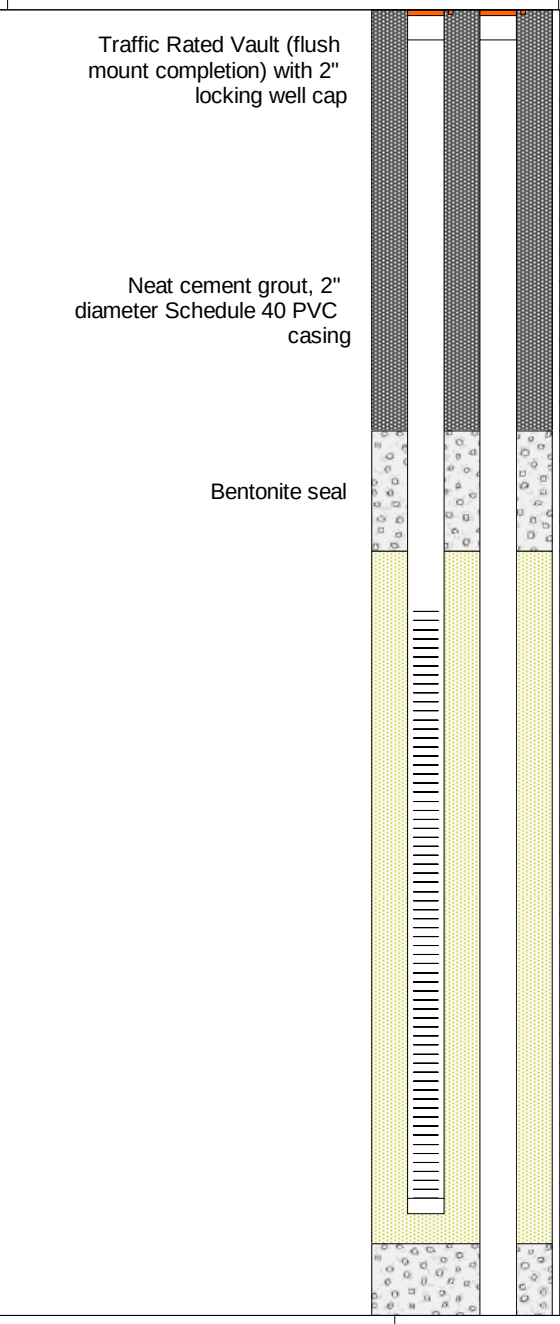


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-21A / IW-21B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647296.2811	EASTING: 2213290.4993
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0–1					SP	Topsoil and sandy fill.
1–6					ML	Brown silt with roots. Dry, becoming moist with depth.
6–8					ML	Yellowish brown silt. Moist.
8–10					ML	Light tan to grey clayey silt. Moist.
10–15					SP	Yellowish brown medium grained sand. Wet.
15–21					SP	Same as above, saturated.



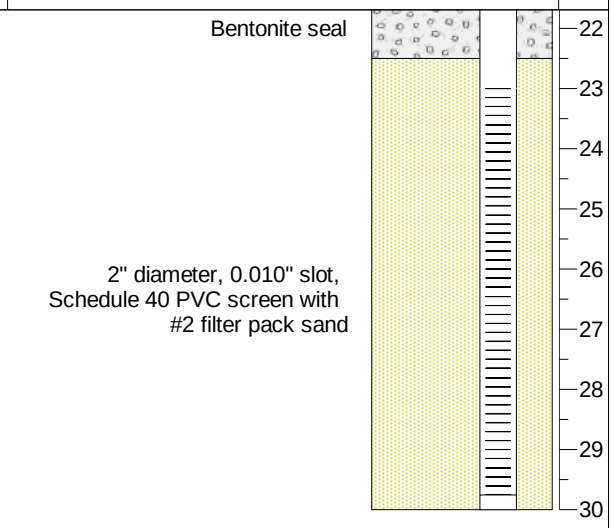
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-21A / IW-21B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647296.2811	EASTING: 2213290.4993
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Same as above.
25					
26					
27					
28					GP — Coarse grey sand with subrounded gravel. Saturated.
29					
30					

End of Boring.

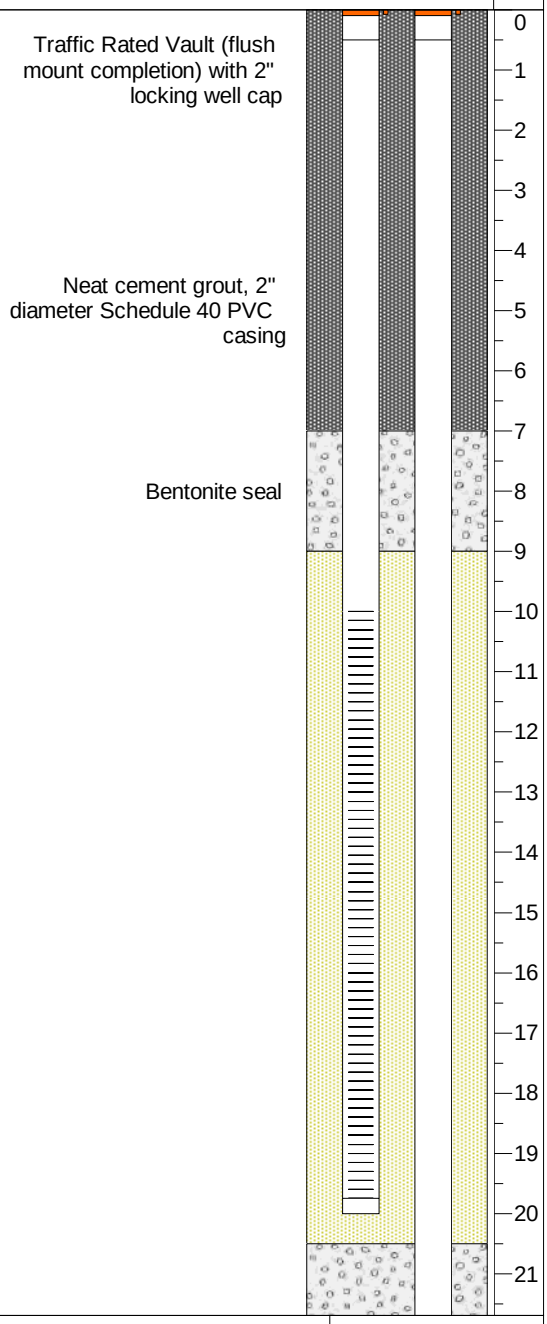


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-22A / IW-22B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647294.3706	EASTING: 647294.3706
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–4					ML	Brown silt with roots. Dry, becoming moist with depth.
5–9					ML	Yellowish brown clayey silt. Moist.
10–15					CL	Light tan clay. Moist.
16–21					SP	Yellowish brown medium grained sand. Wet.



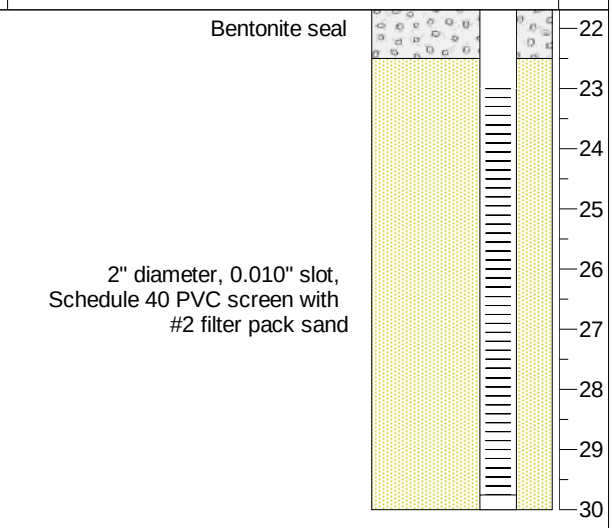
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-22A / IW-22B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647294.3706	EASTING: 647294.3706
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27					SP Coarse grey sand. Saturated.
28					
29					
30					

End of Boring.

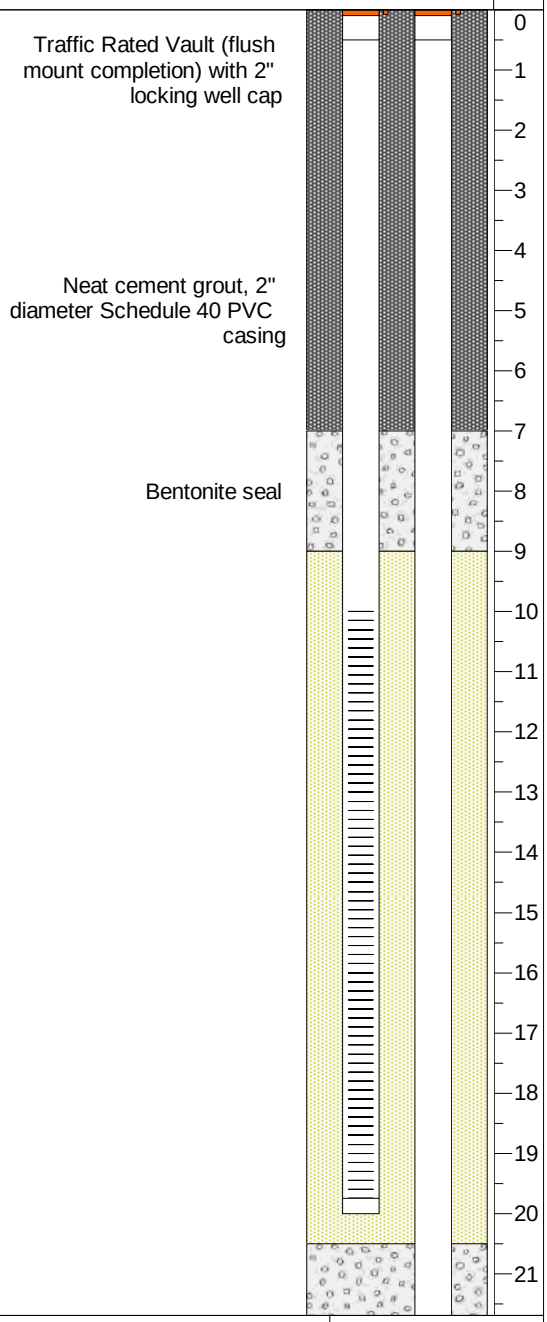


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-23A / IW-23B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647293.0964	EASTING: 2213351.3695
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–5					ML	Brown silt with roots. Dry, becoming moist with depth.
5–10					ML	Yellowish brown clayey silt. Moist.
10–21					SP	Yellowish brown medium grained sand. Wet.

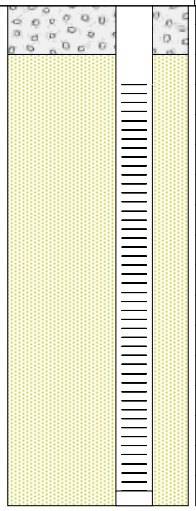


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-23A / IW-23B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647293.0964	EASTING: 2213351.3695
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS		DEPTH (ftbgs)
22						Bentonite seal	22
23							23
24							24
25							25
26				SP	Same as above.	2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand	26
27							27
28							28
29							29
30							30



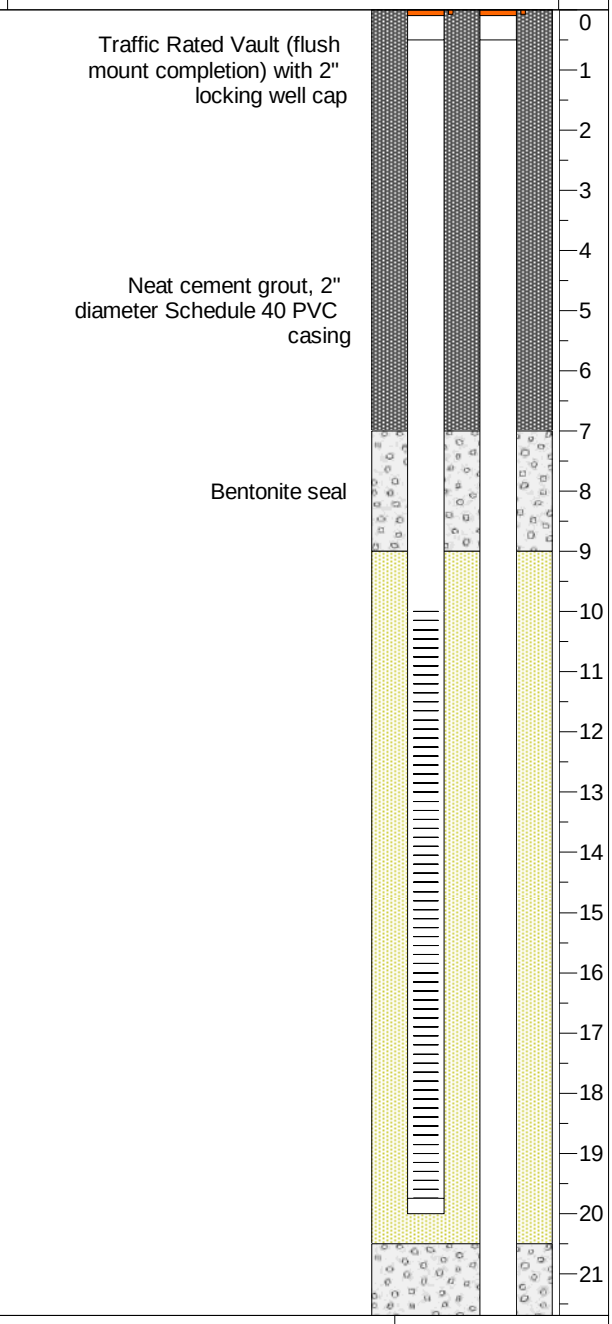
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-24A / IW-24B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647292.2788	EASTING: 2213380.1522
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–4					ML	Brown silt with roots. Dry, becoming moist with depth.
4–11					ML	Yellowish brown clayey silt. Moist.
11–21					SP	Yellowish brown fine to medium grained sand. Wet.

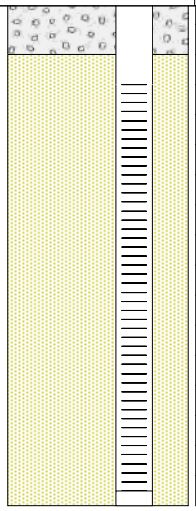


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-24A / IW-24B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647292.2788	EASTING: 2213380.1522
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS	
22						Bentonite seal
23						
24						
25						
26				SP	Same as above.	2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand
27						
28						
29						
30						



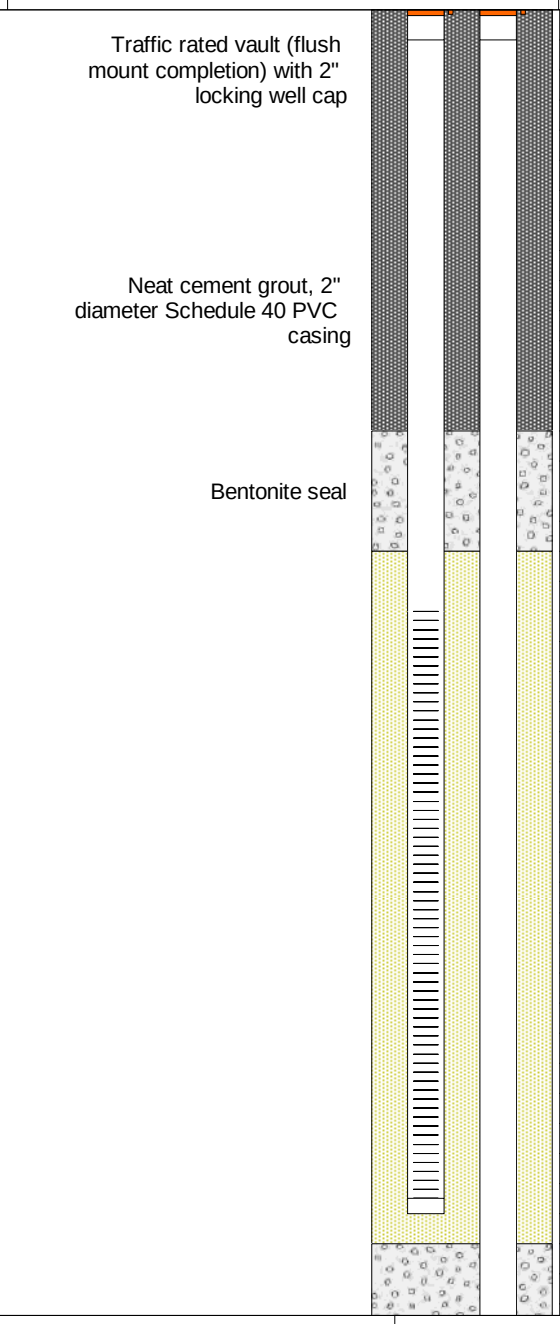
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-25A / IW-25B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647280.2449	EASTING: 2213097.9265
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–4.5					CL — Orange and tan soft silty clay. Dry.
4.5–9					CL — Same as above, moist.
9–13					SM — Orange and tan silty fine sand. Saturated.
13–20					SP — Orange and tan medium to coarse grained sand. Saturated.

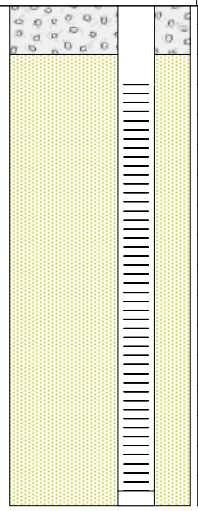


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-25A / IW-25B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647280.2449	EASTING: 2213097.9265
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23				SP	Same as above, dark grey.
24					
25					
26				CL	Grey clay with minor coarse gravel and cobble. Soft. Top 1.5" of clay is black, no odor noted.
27					
28					
29					
30					



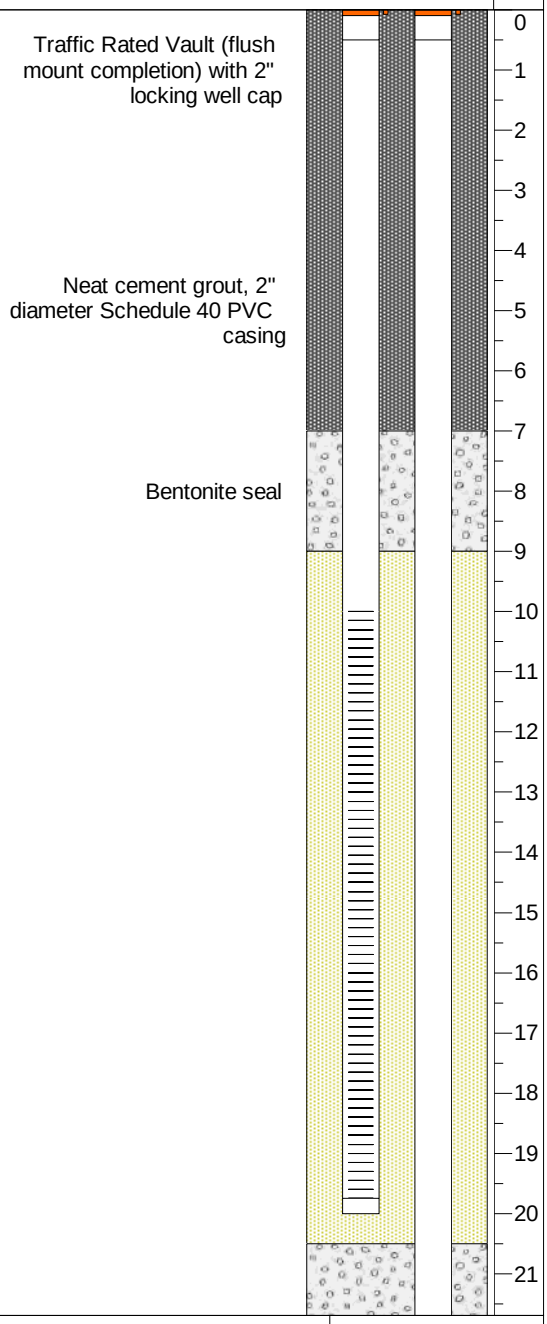
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-26A / IW-26B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647266.4002	EASTING: 2212986.2108
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt
1–5				ML	Dark brown clayey silt. Dry.
5–8				CL	Tan silty clay. Dry.
8–12				SM	Orange and tan silty fine sand. Wet.
12–18				ML	Orange and tan fine to medium grained sand. Saturated.
18–21				SP	Orange and tan medium to coarse grained sand. Saturated.



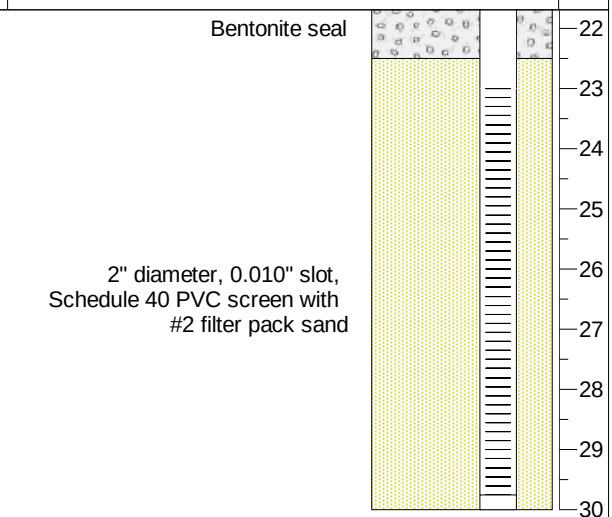
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-26A / IW-26B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647266.4002	EASTING: 2212986.2108
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24				SW	Grey medium to coarse grained sand with subround to round coarse grained gravel and cobble. Saturated.
25					
26					
27					
28				CL	Grey clay. Medium stiff, dry.
29					
30					

End of Boring.



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-26A / IW-26B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647266.4002	EASTING: 2212986.2108
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

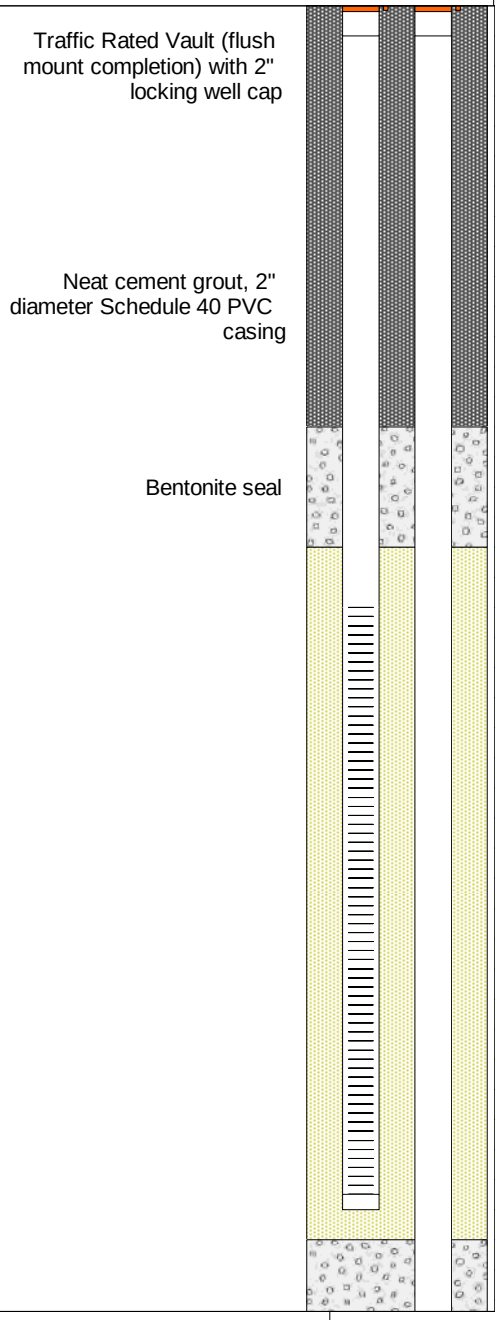
DEPTH (ft bgs)	SAMPLES			PID Reading (ppm)	DESCRIPTION OF MATERIALS		DEPTH (ft bgs)
	Sample ID	Lab Sample	Recovery				

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-27A / IW-27B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647270.4146	EASTING: 2213016.643
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0						Asphalt
1–4					CL	Dark brown silty clay. Dry.
5–6					CL	Same as above. Light Tan.
7–12					SM	Orange and tan silty fine sand. Wet.
13–20					SP	Orange and tan coarse grained sand. Saturated.
20–21					SW	Orange and tan coarse grained sand with coarse gravel and cobble.



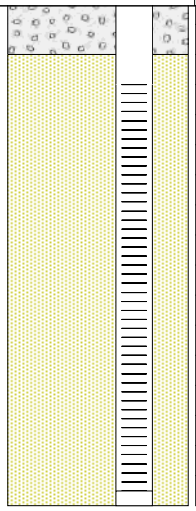
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-27A / IW-27B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647270.4146	EASTING: 2213016.643
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
22					SW	Same as above.
23						
24						
25						
26						
27						
28					CL	Grey clay. Dry.
29					SC	Grey clayey coarse grained sand with fine gravel. Wet.
30						

End of Boring.

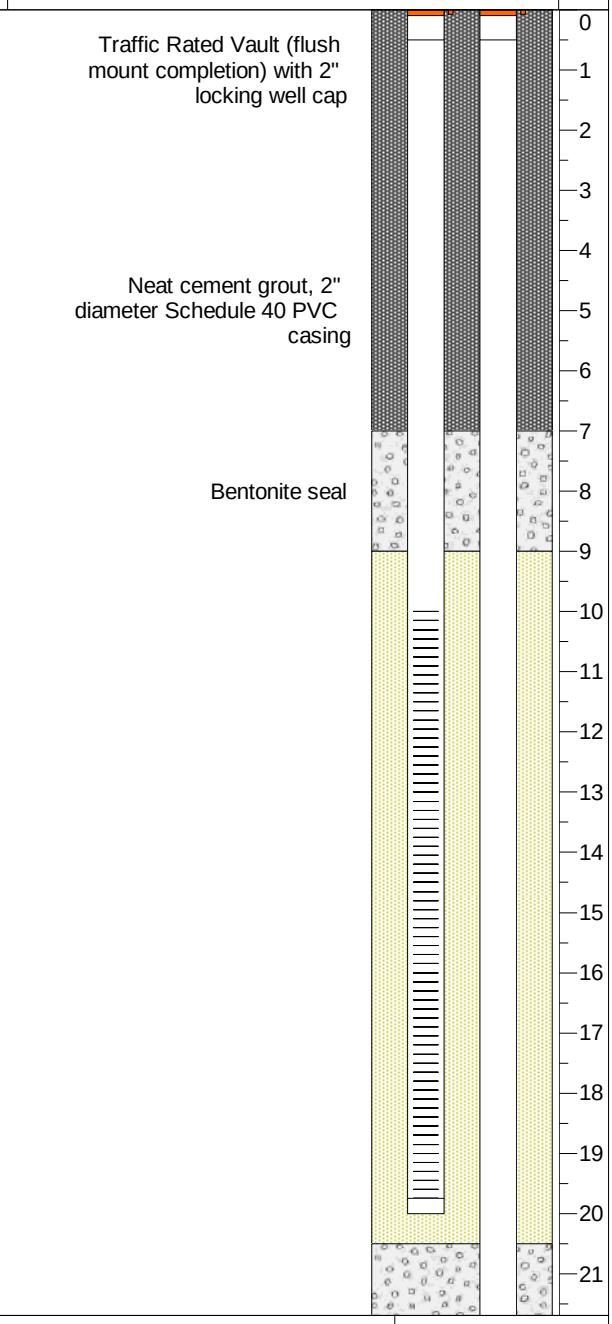


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-28A / IW-28B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647269.8644	EASTING: 2213046.3111
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0						Asphalt
1–4					CL	Dark brown silty clay. Dry.
8					SM	Light tan silty clay. Dry.
9					SM	Light tan and orange silty fine sand. Moist.
10–15					SM	Same as above. Wet.
16–18					SP	Light orange and tan fine to medium grained quartz sand. Saturated.
19–21					SP	Grey medium to coarse grained quartz sand. Saturated.



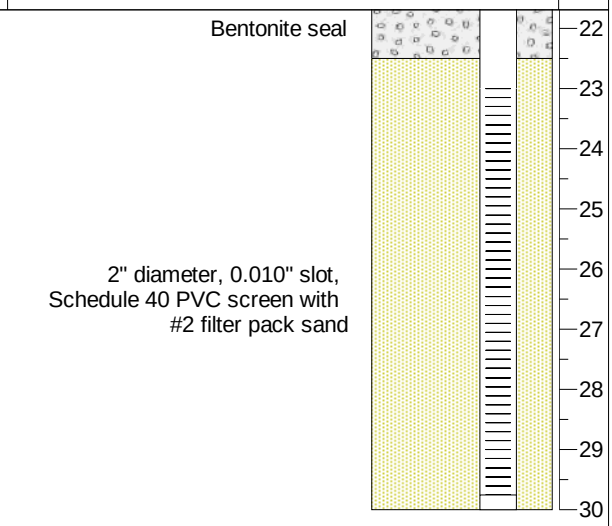
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-28A / IW-28B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647269.8644	EASTING: 2213046.3111
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25				SW	Grey medium to coarse grained quartz sand with subround to round coarse gravel and cobble. Saturated.
26					
27					
28					
29				CL	Grey clay. Medium stiff to stiff. Moist.
30					

End of Boring.

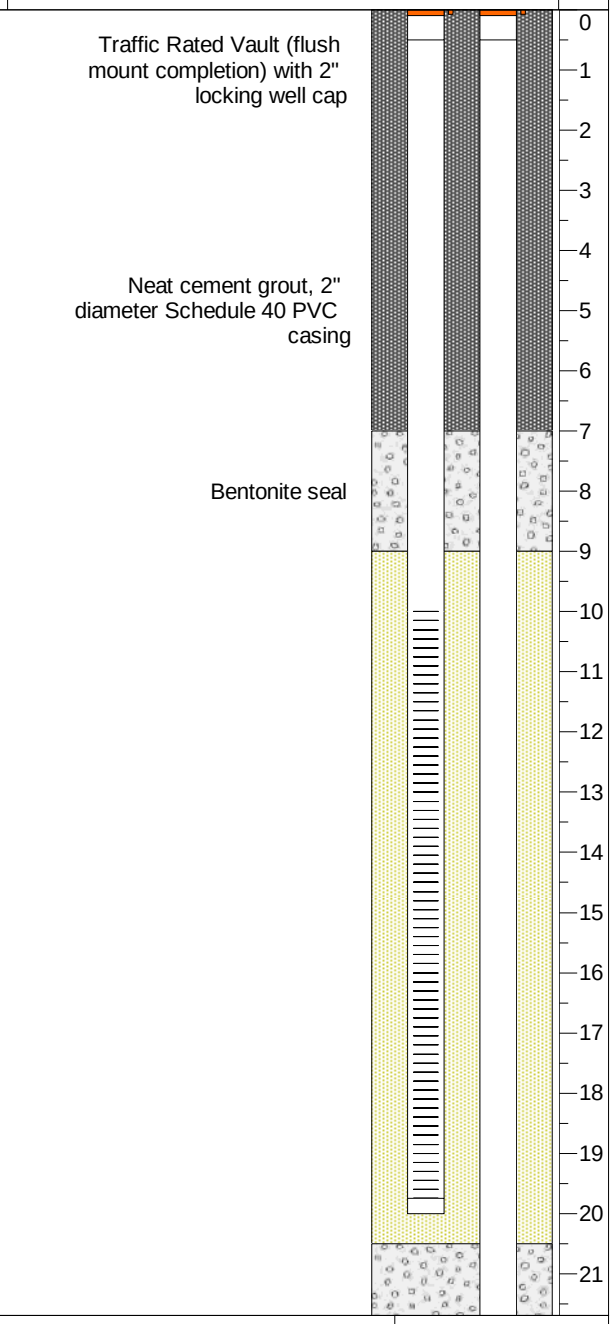


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-29A / IW-29B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647269.574	EASTING: 2213078.0912
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt and gravel.
1–2					ML — Reddish brown sandy silt. Moist.
3–5					CL — Dark brown clay. Moist to wet.
6–9					CL — Brown clay. Wet.
10–12					ML — Yellowish brown clayey silt. Wet.
13–21					SP — Yellowish brown medium grained sand. Wet.

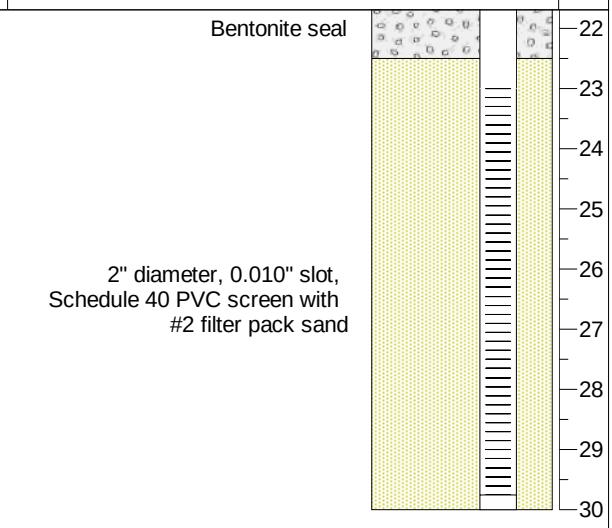


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-29A / IW-29B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/16/2013	DATE FINISHED: 9/16/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647269.574	EASTING: 2213078.0912
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					SP — Same as above.
23					
24					
25					
26					
27					CL — Light grey clay. Wet.
28					
29					
30					End of Boring.

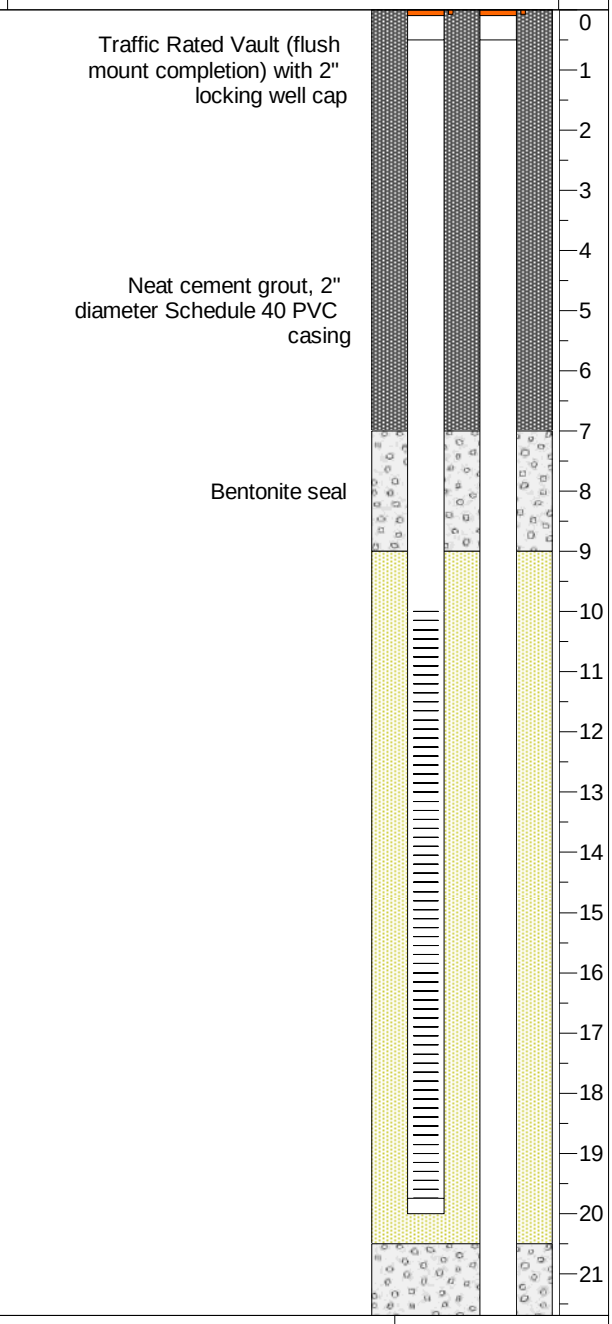


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-30A / IW-30B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647268.7742	EASTING: 2213109.5809
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt.
1–4				CL	Light brown sand and clay. Dry.
4–7				CL	Tan sandy clay. Dry.
7–18				SM	Light tan to orange fine to medium grained quartz sand. Wet.
18–21				SP	Light tan to orange medium grained sand. Wet.



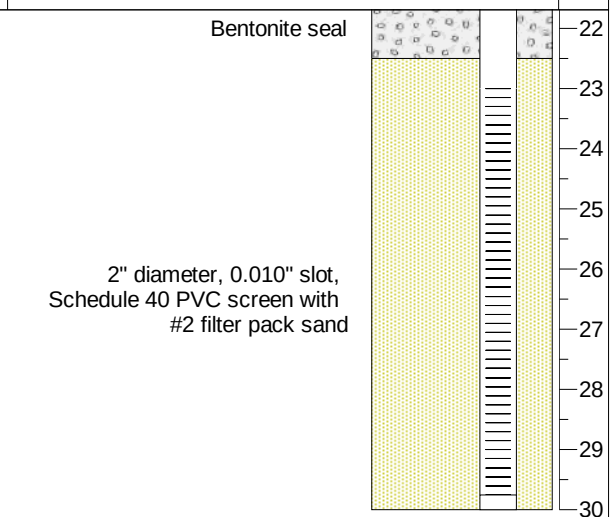
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-30A / IW-30B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647268.7742	EASTING: 2213109.5809
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					SP — Light brown to tan medium to coarse grained sand. Saturated.
23					
24					SP — Same as above. Dark grey to black.
25					
26					
27					
28					
29					CL — Light grey clay. Soft, dry.
30					

End of Boring.

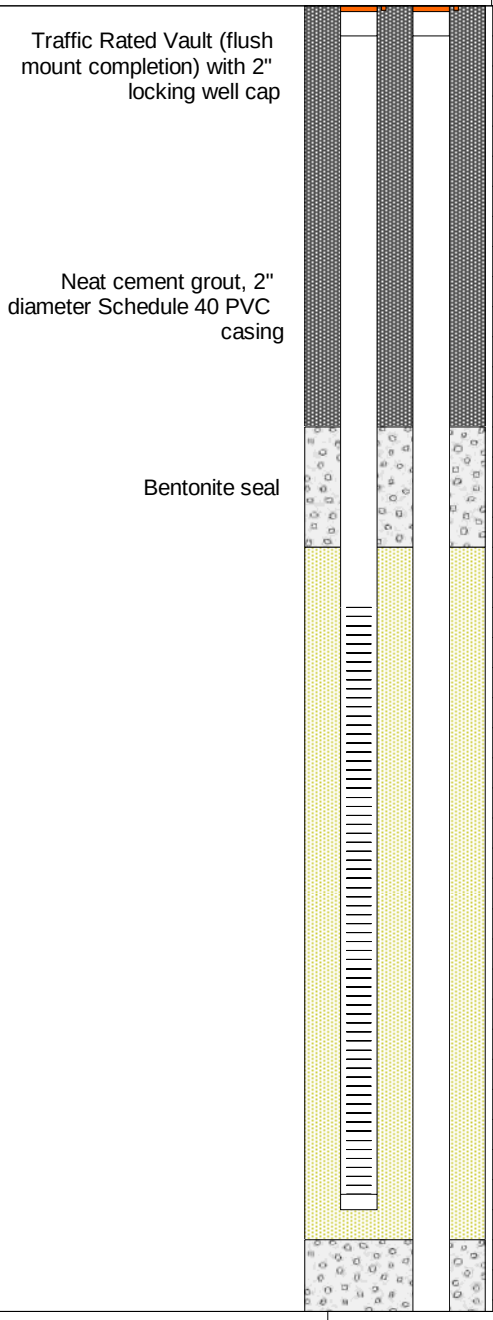


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-31A / IW-31B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647268.2214	EASTING: 2213139.4861
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt.
1–3				SC	Grey clayey sand. Dry.
3–4.5				CL	Grey sandy clay. Dry.
4.5–12				ML	Light brown clayey silt. Moist.
12–17				SM	Tan and orange fine grained quartz sand. Saturated.
17–21				SP	Tan and orange medium to coarse grained sand. Saturated.

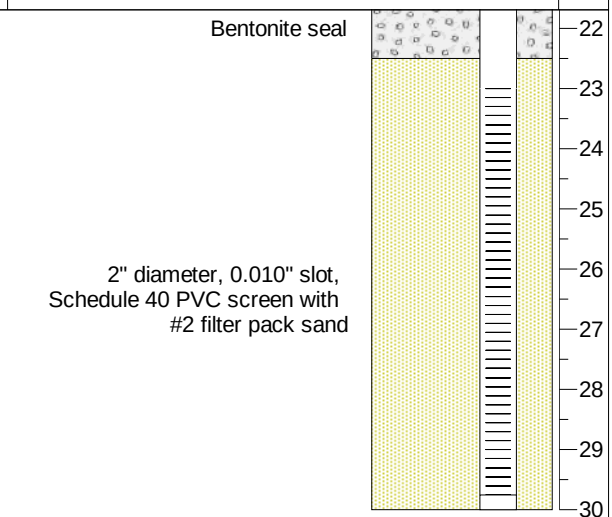


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-31A / IW-31B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647268.2214	EASTING: 2213139.4861
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					SP — Same as above.
26					
27					
28					
29					SP — Dark grey coarse sand with fine gravel. Saturated.
30					CL — Soft grey clay with fine and coarse grained gravel. Dry. End of Boring.

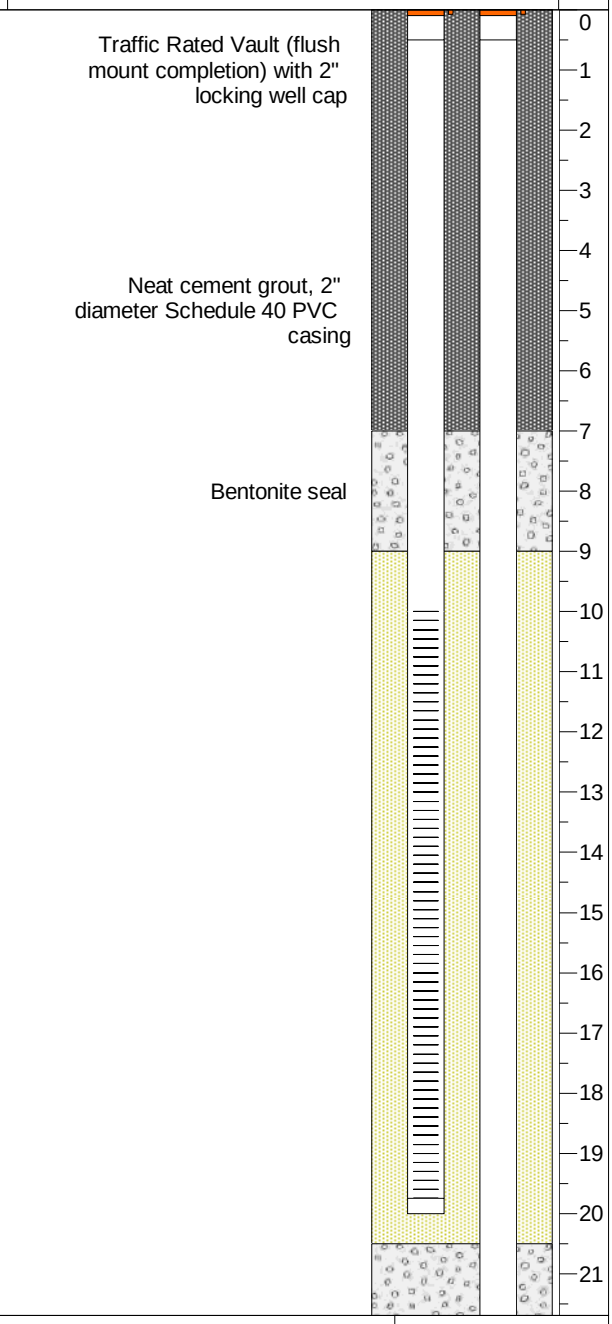


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-32A / IW-32B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647267.1256	EASTING: 2213169.7125
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt.
1–2				CL	Reddish brown silty clay with some sand. Dry.
3–4				SC	Grey fine sandy clay. Dry.
5–13				ML	Tan clayey silt. Moist.
14–21				SM	Light brown fine to medium grained quartz sand. Wet.



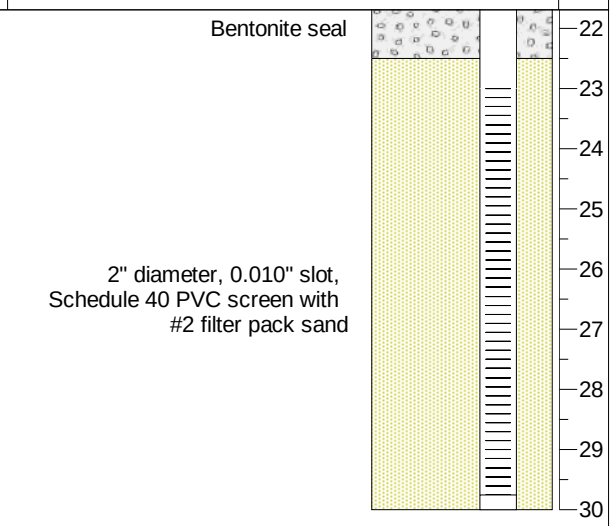
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-32A / IW-32B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647267.1256	EASTING: 2213169.7125
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					SP — Light brown medium to coarse grained sand. Saturated.
26					
27					
28					
29					SP — Same as above, grey.
30					

End of Boring.

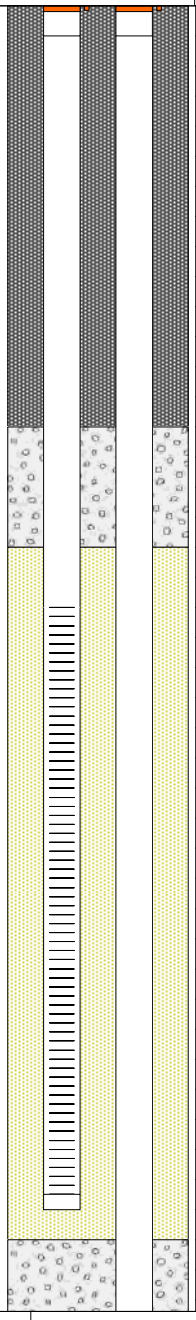


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-33A / IW-33B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647270.4933	EASTING: 2213198.4342
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–1					GM — Gravel and fill.
1–6					ML — Tan clayey silt with sand. Dry.
6–9					ML — Same as above, moist.
9–15					SM — Light brown to grey fine grained sand with some silt. Wet.
15–20					SM — Yellow and orange fine grained sand with some silt. Saturated.



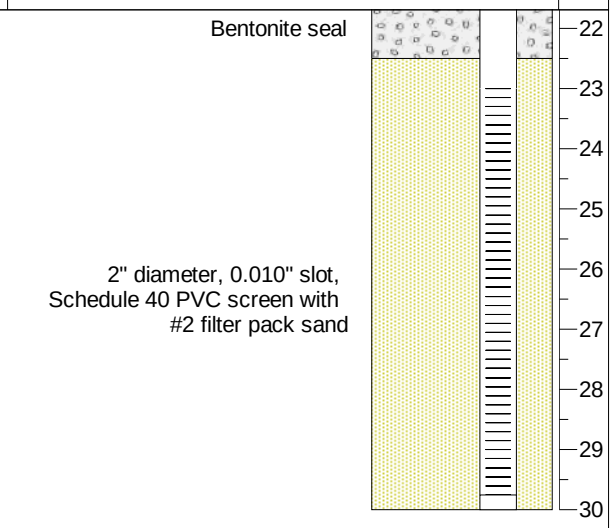
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-33A / IW-33B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647270.4933	EASTING: 2213198.4342
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
22–23					SP	Yellow and orange medium grained sand. Saturated.
23–24						
24–25						
25–26					SP	Yellow and orange medium to coarse grained sand. Saturated.
26–27						
27–28					SP	Same as above, dark grey.
28–29					CL	Dark grey clay. Soft.
29–30						

End of Boring.

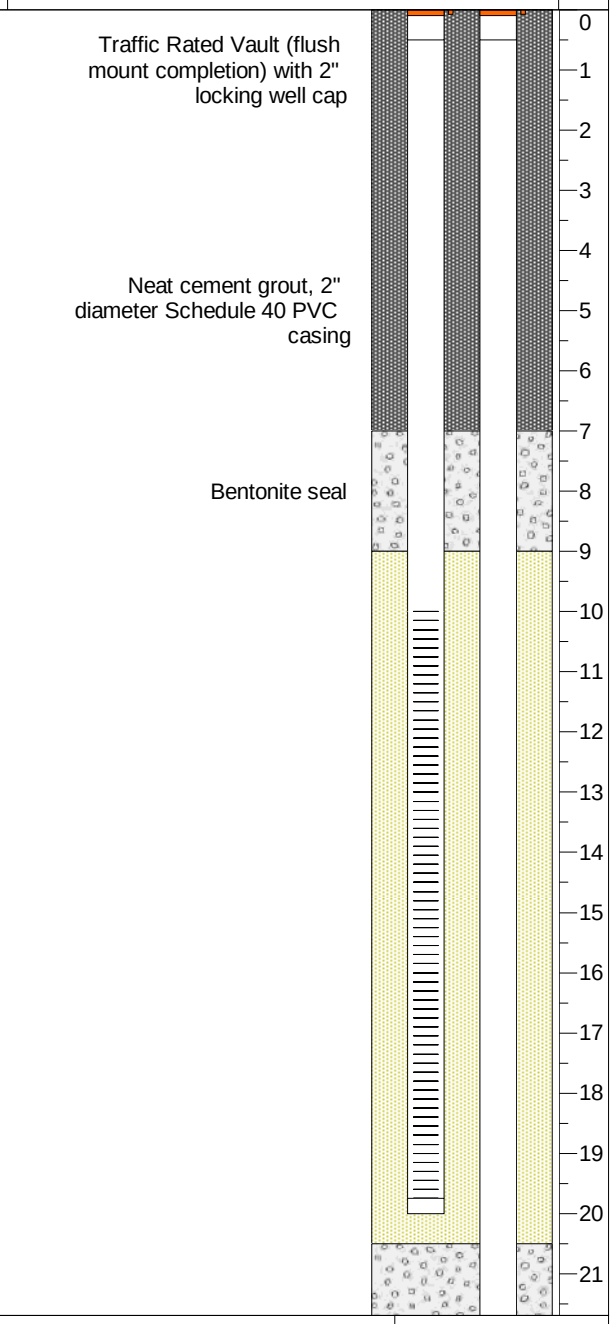


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-34A / IW-34B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647267.4755	EASTING: 2213229.6434
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–1					GM — Gravel and fill.
1–8					CL — Light brown to dark brown silty clay. Dry.
8–18					ML — Tan clayey silt. Moist.
18–20					ML — Tan to light grey clayey silt with fine sand. Wet.



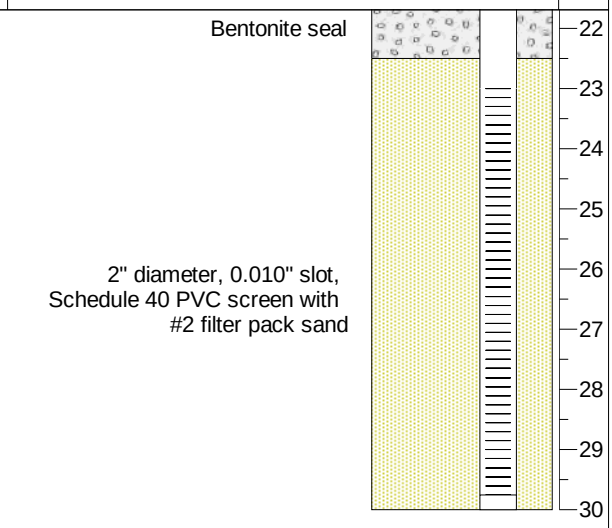
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-34A / IW-34B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647267.4755	EASTING: 2213229.6434
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					SP — Tan fine to medium grained sand. Saturated.
23					
24					
25					SP — Tan medium to coarse grained quartz sand. Saturated.
26					
27					
28					
29					SP — Same as above, light tan to grey. Saturated.
30					

End of Boring.

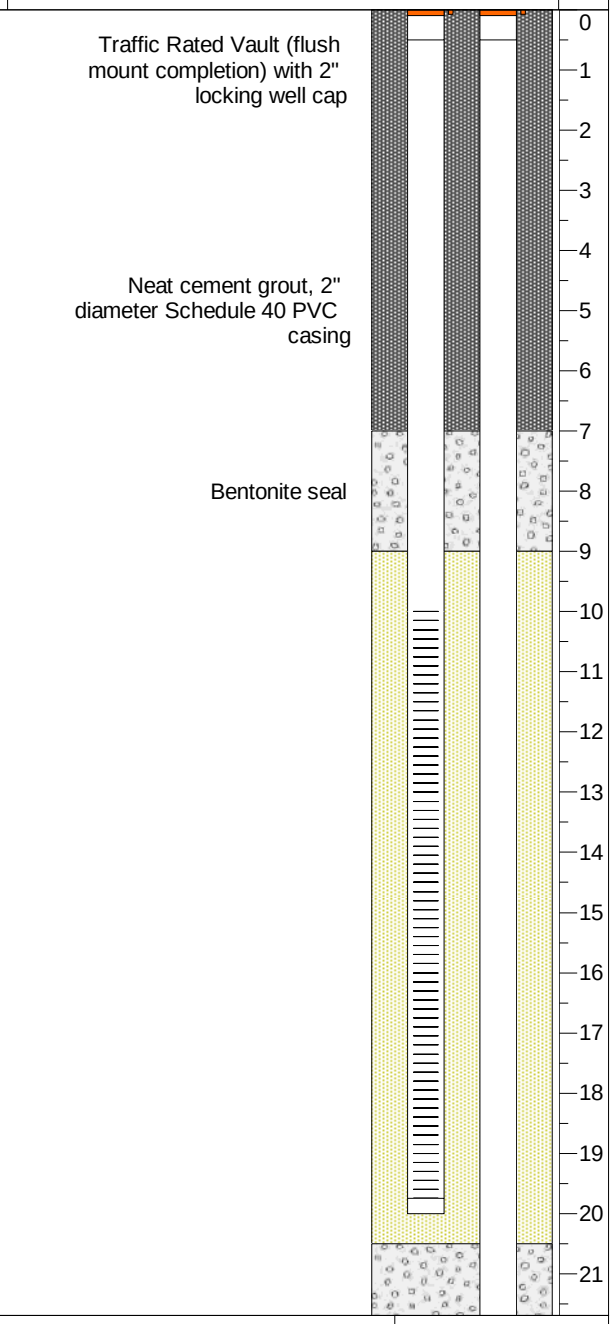


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-35A / IW-35B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647266.7411	EASTING: 2213260.7366
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt
1–4				CL	Light brown silty clay. Dry.
4–13				CL	Same as above. Moist.
13–20				SM	Yellowish brown fine grained sand with silt. Wet.



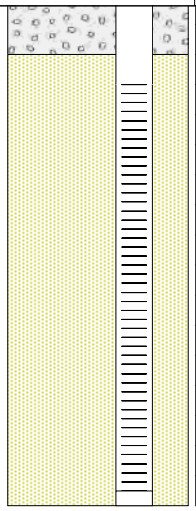
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-35A / IW-35B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647266.7411	EASTING: 2213260.7366
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					SP — Yellowish tan medium grained quartz sand. Saturated.
23					
24					
25					SP — Tan to grey medium to coarse grained sand. Saturated.
26					
27					
28					
29					CL — Grey soft clay with some coarse sand. Dry.
30					

End of Boring.



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-35A / IW-35B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647266.7411	EASTING: 2213260.7366
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

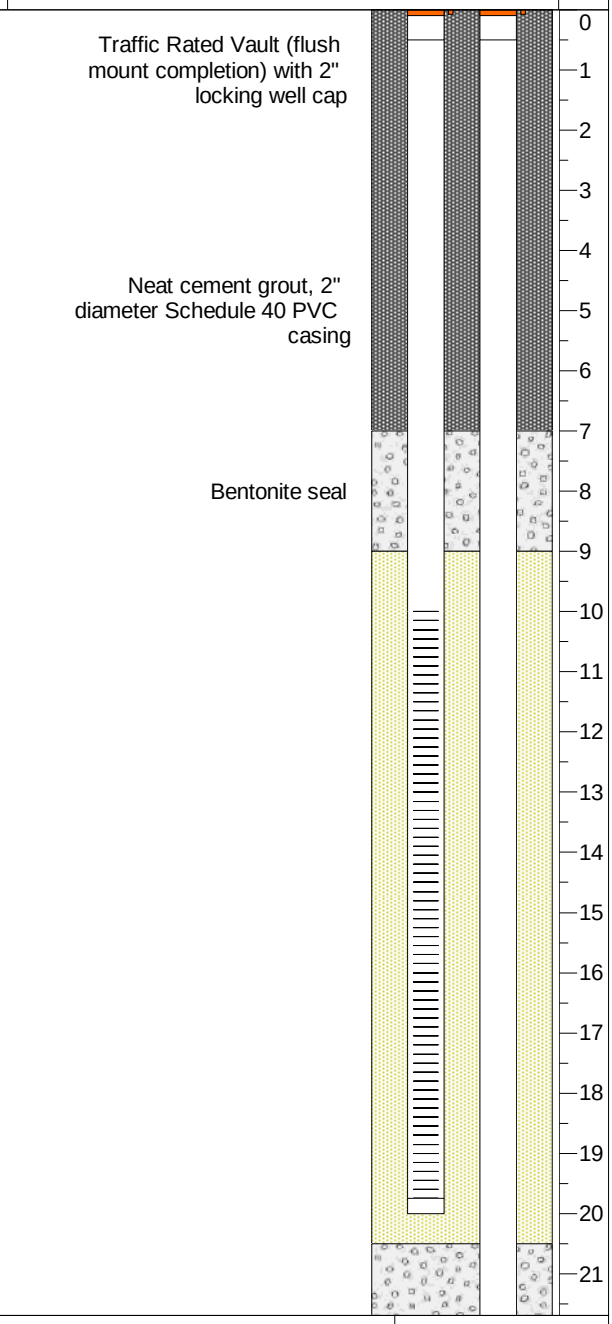
DEPTH (ft bgs)	SAMPLES			PID Reading (ppm)	DESCRIPTION OF MATERIALS		DEPTH (ft bgs)
	Sample ID	Lab Sample	Recovery				

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-36A / IW-36B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647265.6973	EASTING: 2213289.5251
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt.
1–2				SM	Dark brown sandy fill.
3–6				CL	Light brown silty clay. Dry.
6–9				CL	Yellowish orange silty clay. Moist.
9–12				CL	Yellowish tan silty clay. Moist.
12–20				SM	Yellow and tan fine grained sand with some silt. Wet.
20–21					



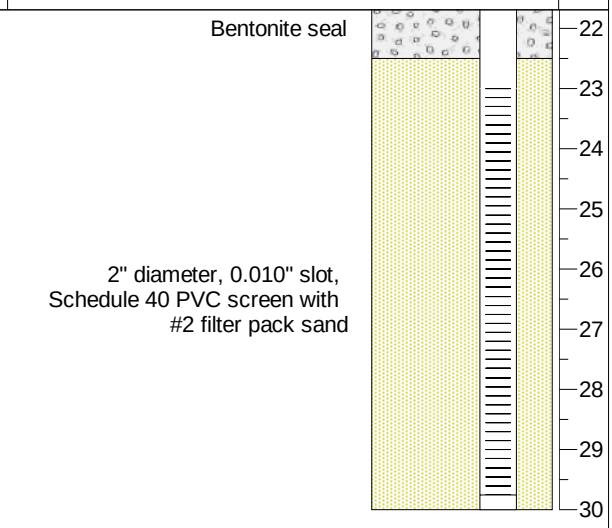
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-36A / IW-36B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647265.6973	EASTING: 2213289.5251
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Yellowish tan medium to coarse grained quartz sand. Saturated.
25					
26					
27					
28					
29					SP — Same as above. Grey.
30					

End of Boring.

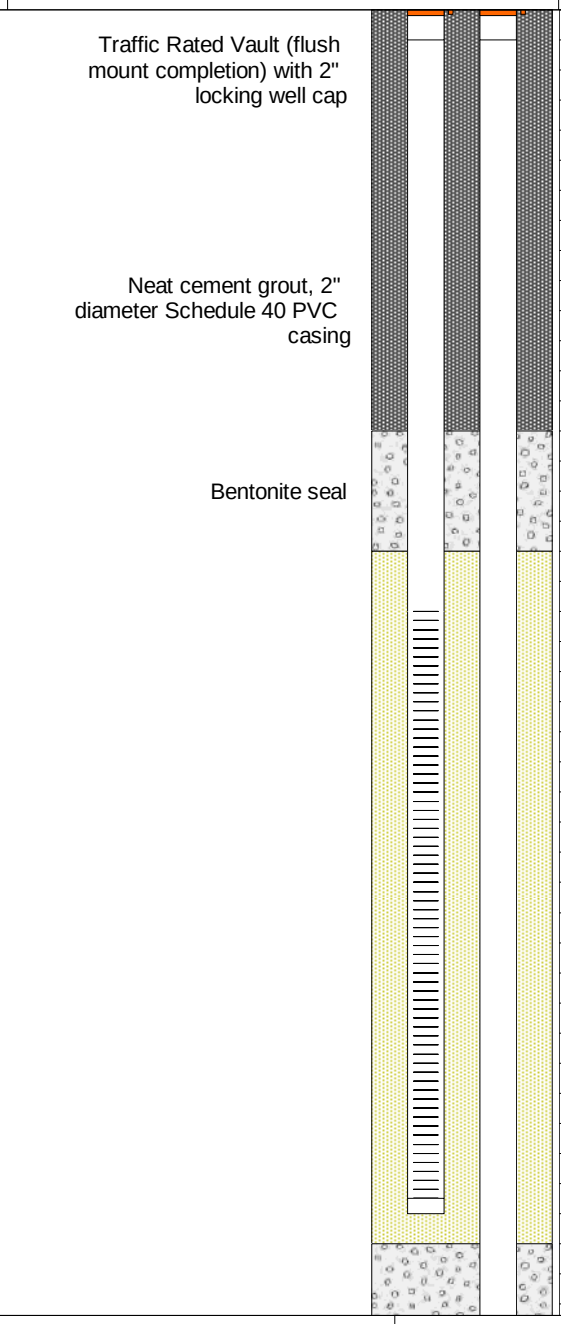


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-37A / IW-37B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647265.0015	EASTING: 2213319.9793
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt.
1–8					CL — Light brown silty clay. Dry.
8–12					ML — Light brown clayey silt. Moist.
12–14					SM — Tan to grey fine grained sand. Wet.
14–21					SM — Same as above. Light brown.



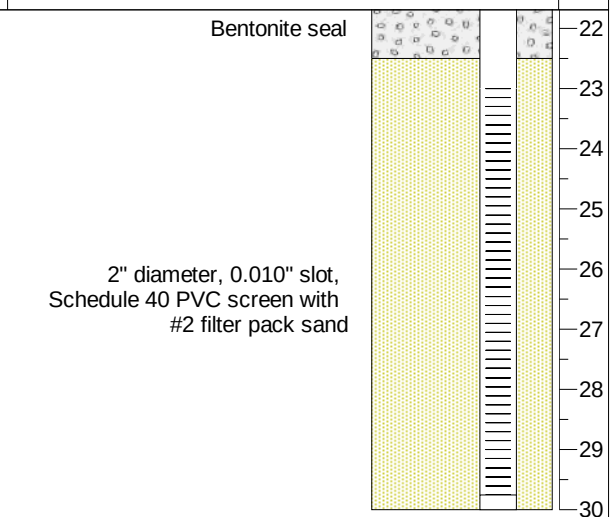
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-37A / IW-37B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647265.0015	EASTING: 2213319.9793
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26				SP	Light tan to orange medium to coarse grained sand. Saturated.
27					
28					
29				SP	Same as above, grey.
30					

End of Boring.

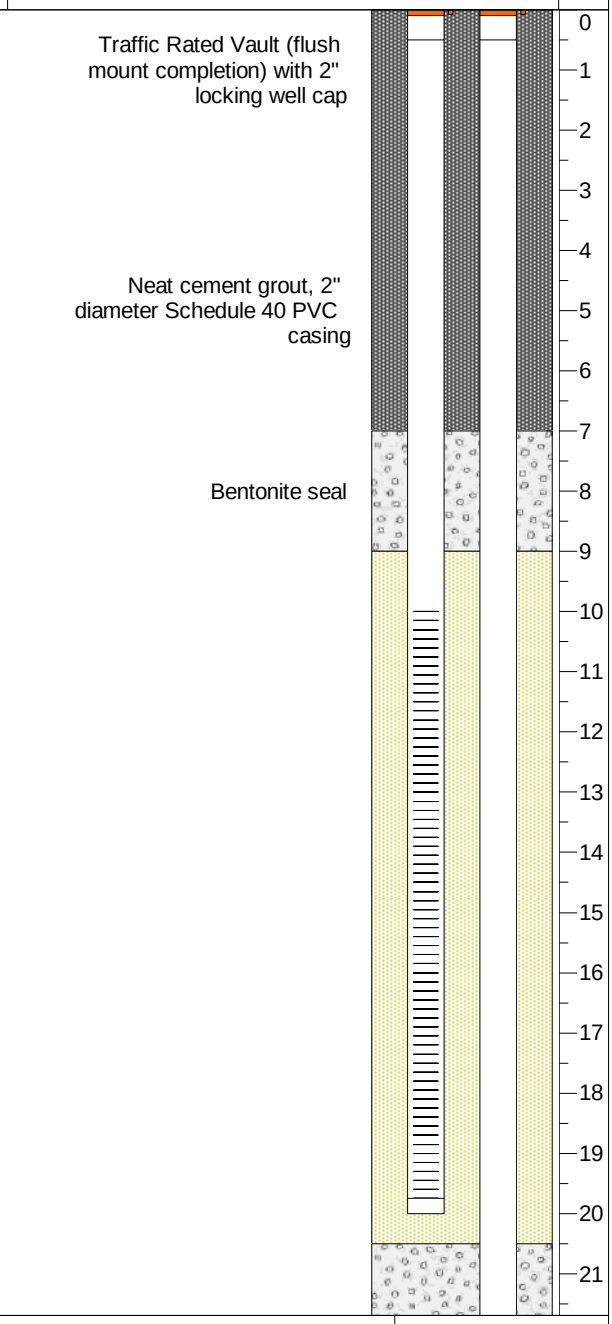


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-38A / IW-38B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647264.0839	EASTING: 2213349.5745
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–1					CL — Asphalt and fill.
1–3					ML — Dark brown silty clay. Dry.
3–6					CL — Light brown clayey silt with fine sand. Dry.
6–9					SC — Light orange and tan clayey silt. Moist.
9–14					SM — Tan and grey clayey silt. Wet.
14–21					SP — Orange and tan fine grained sand. Saturated.

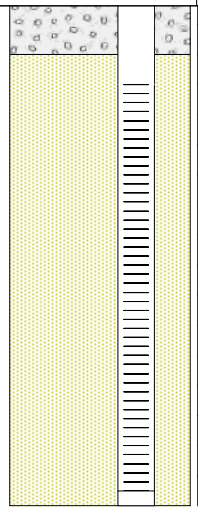


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-38A / IW-38B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647264.0839	EASTING: 2213349.5745
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					SP — Tan and orange medium to coarse grained sand. Saturated.
27					
28					
29					
30					



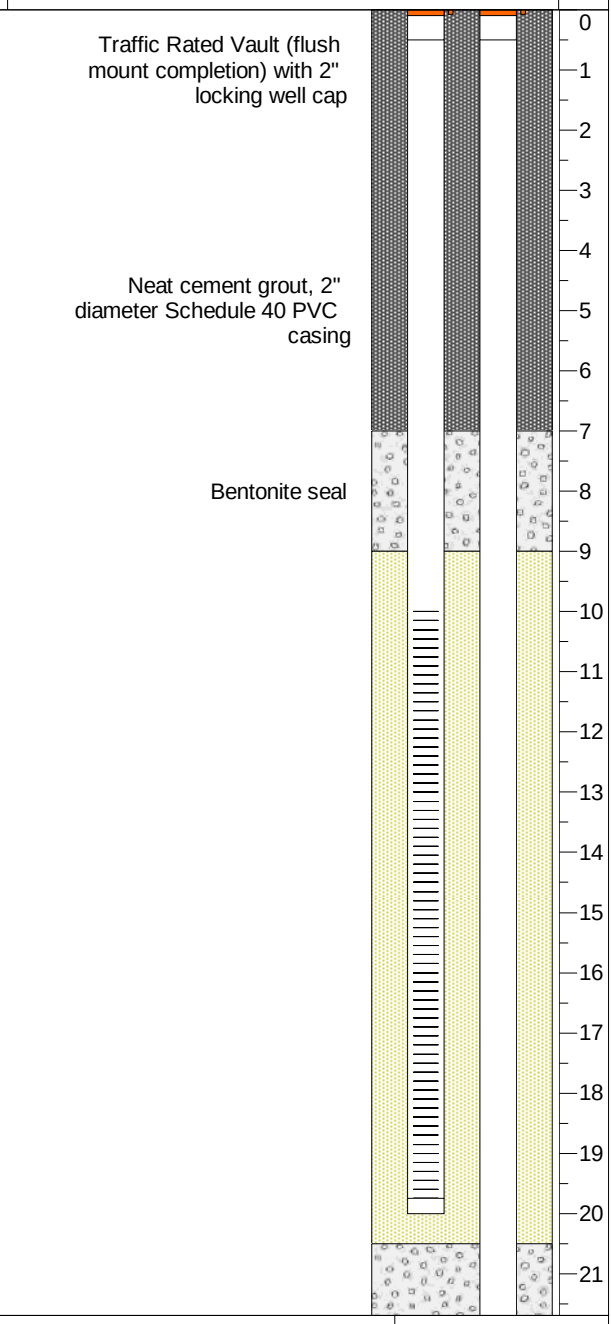
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-39A / IW-39B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647263.8043	EASTING: 2213377.1408
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Gravel and sandy fill.
1				ML	Brown silt with gravel. Dry to moist.
2–4				ML	Reddish brown silt with roots. Moist.
5–12				ML	Brown clayey silt. Moist.
12–21				SP	Yellowish brown medium grained sand. Wet.

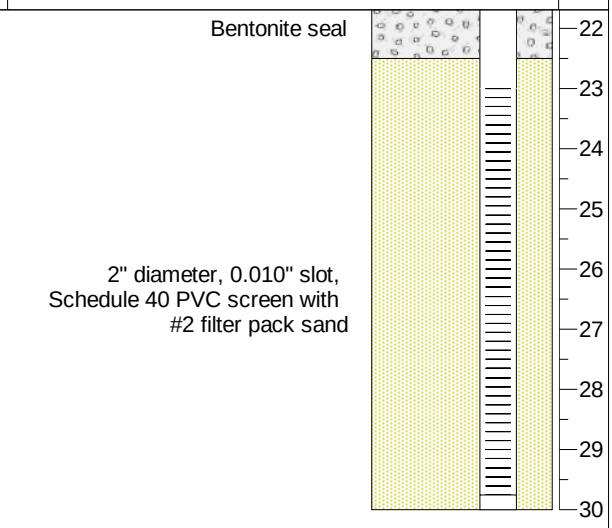


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-39A / IW-39B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/17/2013	DATE FINISHED: 9/17/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647263.8043	EASTING: 2213377.1408
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27					
28					SP — Coarse grey sand with subrounded gravel. Saturated.
29					
30					



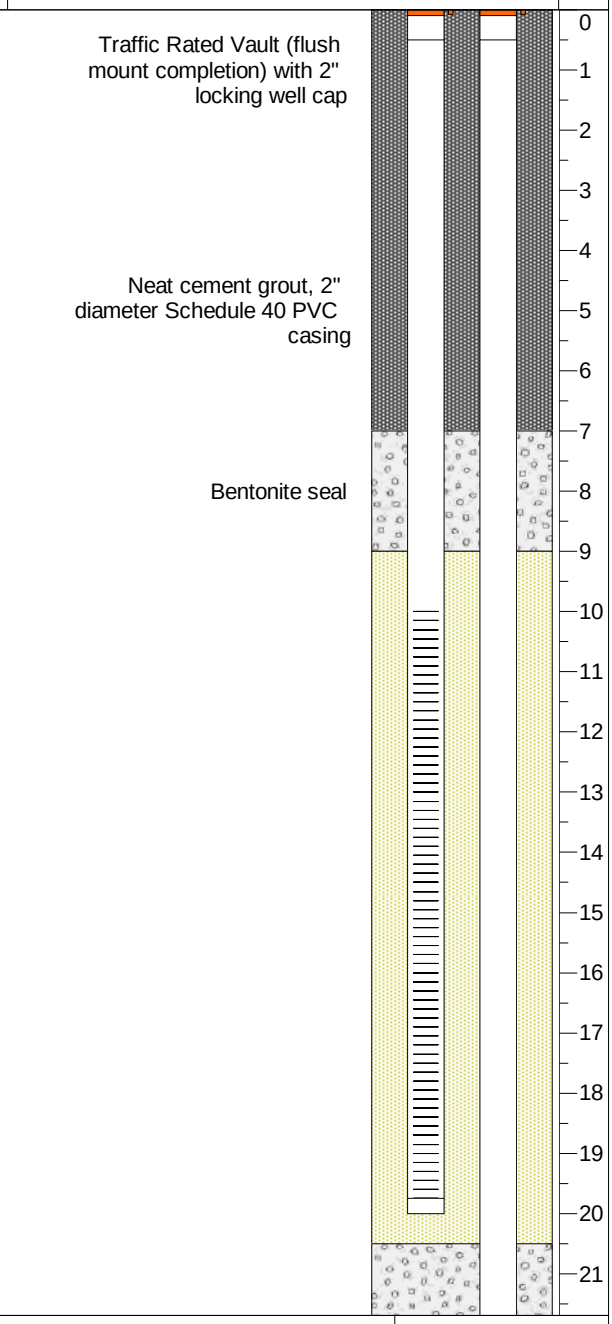
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-40A / IW-40B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647265.99	EASTING: 2213405.7452
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt and Fill.
1–3				ML	Light brown clayey silt. Dry.
5–7				ML	Brown clayey silt. Dry
7–9				CL	Light brown clay. Moist.
9–15				SC	Grey fine grained sand with some clay. Moist.
15–20				SM	Light brown to orange fine to medium grained sand. Saturated.



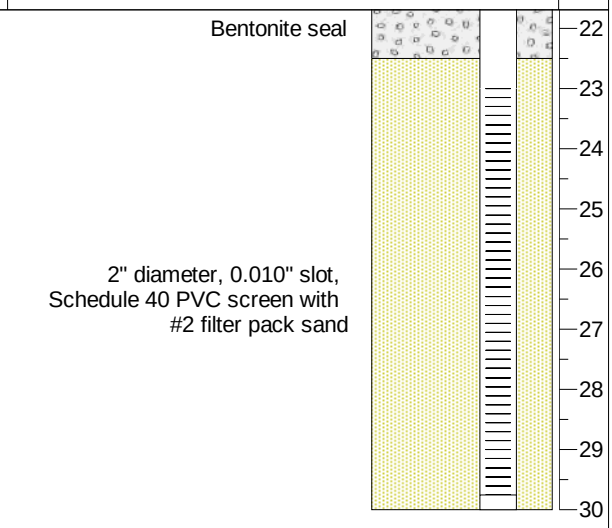
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-40A / IW-40B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647265.99	EASTING: 2213405.7452
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24				SP	Light brown to tan medium to coarse grained quartz sand. Saturated.
25					
26					
27					
28					
29				SP	Same as above with clay. Saturated.
30					

End of Boring.

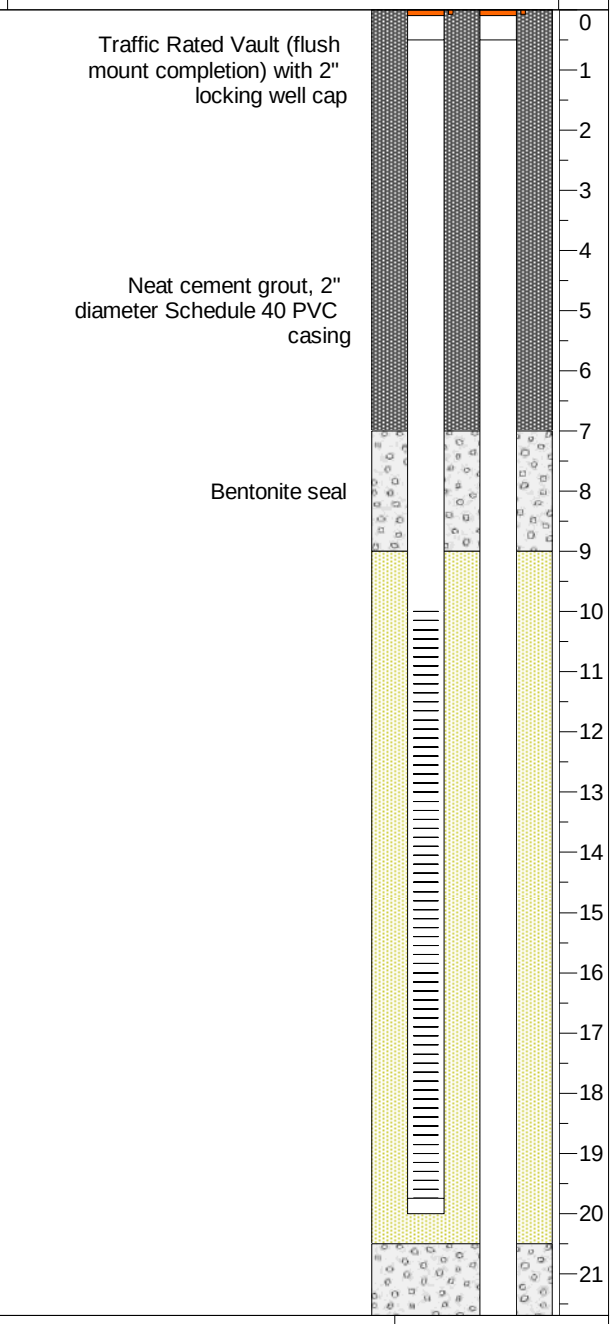


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-41A / IW-41B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647242.054	EASTING: 2212989.0439
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0–1					SP	Sandy fill.
1–5.5					CL	Dark brown silty clay. Dry.
5.5–9					CL	Tan silty clay. Moist.
9–14					CL	Orange and brown silty clay. Moist.
14–21					SP	Dark Yellowish orange fine sand. Wet.



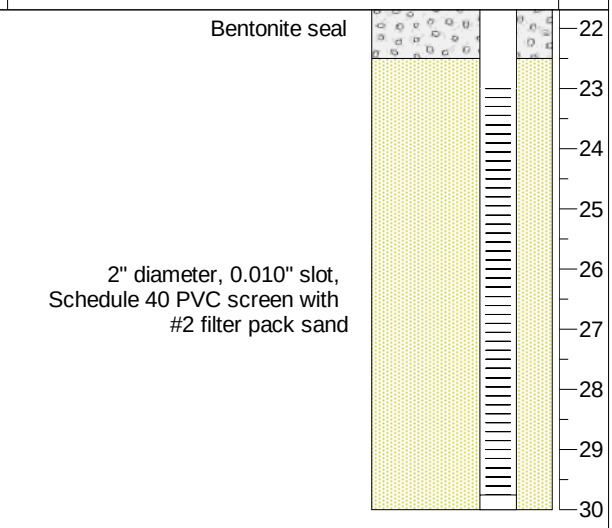
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-41A / IW-41B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647242.054	EASTING: 2212989.0439
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25				SP	Light tan to orange medium to coarse grained sand. Saturated.
26					
27					
28				SP	Same as above, light tan to grey.
29				CL	Light grey clay. Medium stiff.
30					

End of Boring.

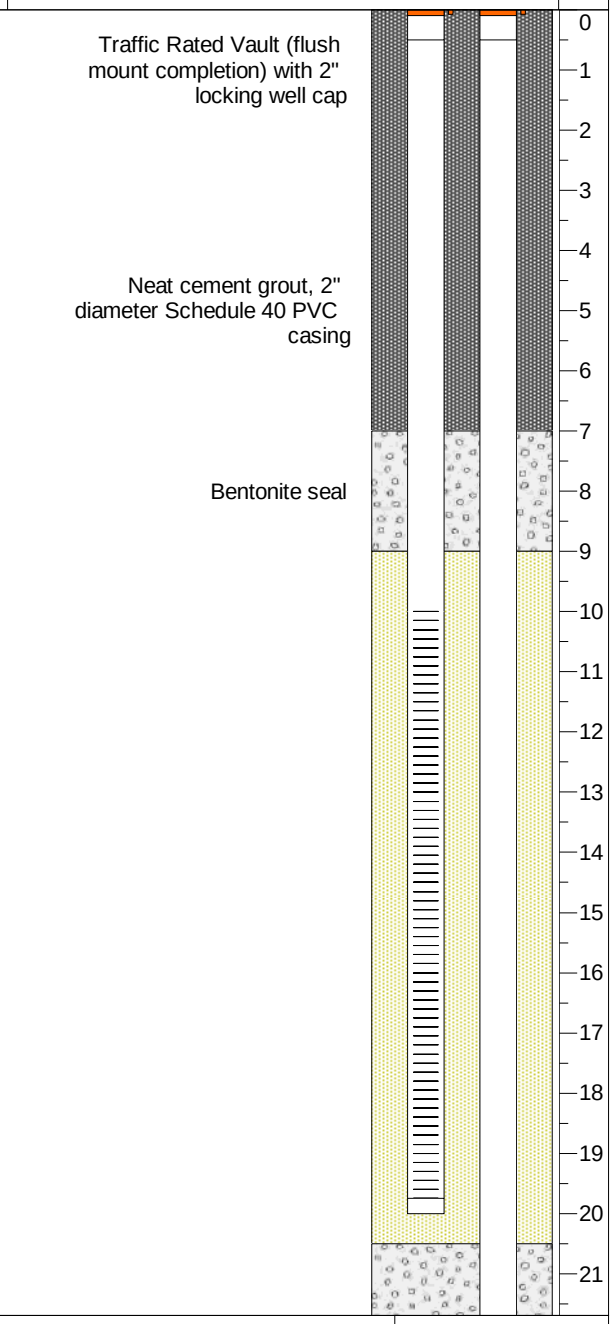


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-42A / IW-42B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647240.3948	EASTING: 2213018.3622
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–1					GM — Sand and gravel fill.
1–3					GM — Brown fine sand and gravel.
3–8					ML — Dark tan to orange clayey silt with fine sand. Moist.
8–13					SM — Dark yellowish orange fine sand. Moist.
13–21					SP — Light brown to yellowish orange fine to medium grained sand. Wet.



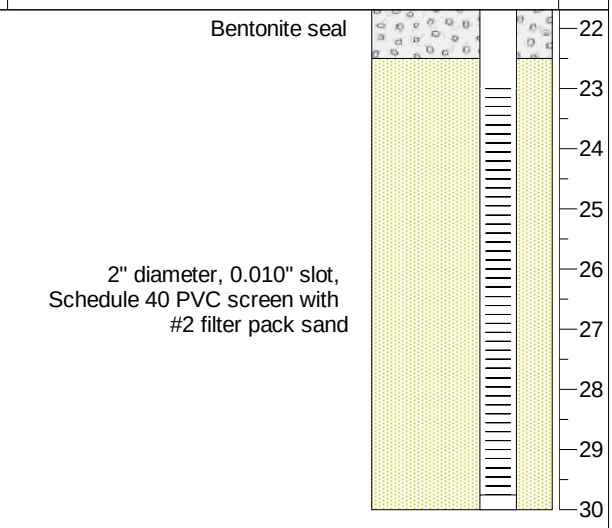
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-42A / IW-42B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647240.3948	EASTING: 2213018.3622
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Light brown to yellowish orange medium grained sand. Wet.
25					
26					
27					
28					CL — Light grey clay with coarse gravel. Soft, dry.
29					
30					

End of Boring.

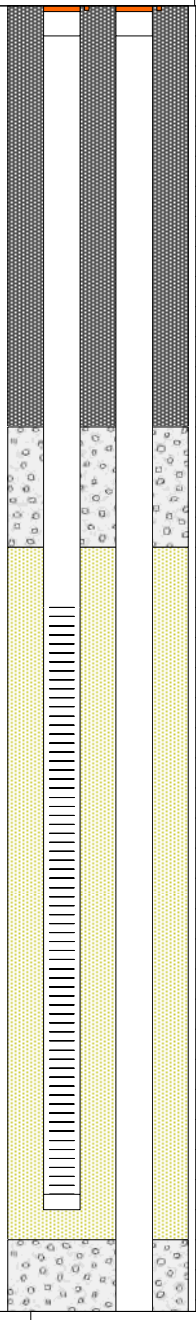


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-43A / IW-43B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647245.1536	EASTING: 2213051.227
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–1					GM — Gravel and fill.
1–5					GM — Brown sandy gravel. Dry.
5–9					CL — Light brown silty clay. Moist.
9–15					SM — Tan and orange fine grained sand. Moist.
15–21					SP — Orange and tan fine to medium grained sand. Wet.



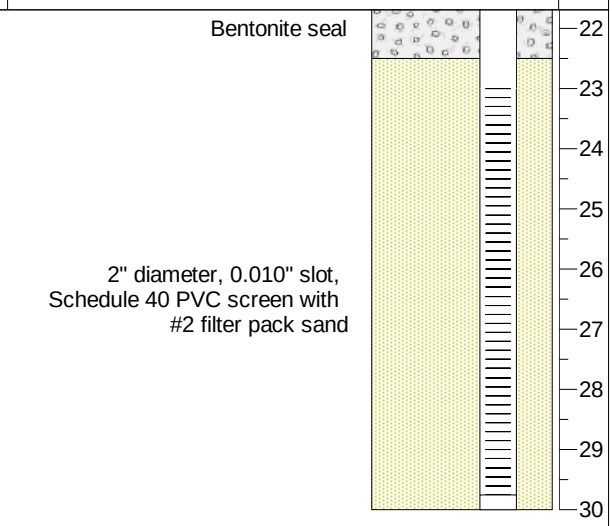
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-43A / IW-43B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647245.1536	EASTING: 2213051.227
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Stewart Farling	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SP — Yellowish tan medium to coarse grained quartz sand with minor fine gravel. Saturated.
25					
26					
27					
28					
29					CL — Light grey clay. Hard, dry.
30					

End of Boring.

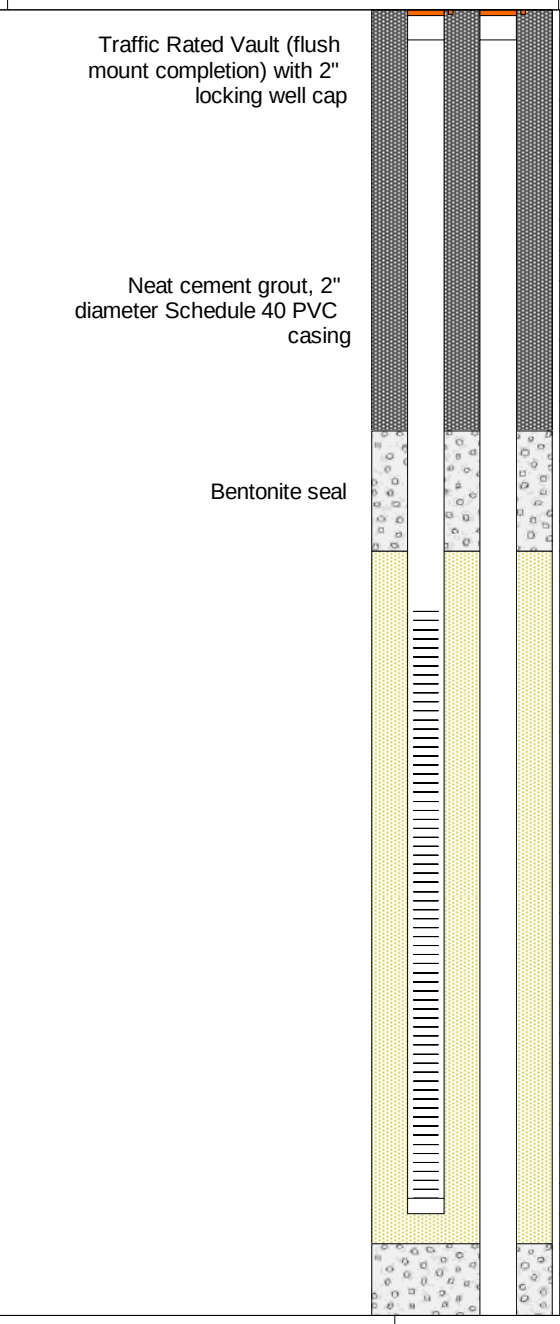


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-44A / IW-44B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647252.5311	EASTING: 2213090.2795
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					Asphalt and gravel.
1–3				ML	Reddish brown sandy silt. Dry to moist.
4–6				CL	Dark brown clay. Moist.
7–12				ML	Yellowish brown clayey silt. Moist to wet.
13–15				SP	Yellowish brown medium grained sand. Wet.
16–21				SP	Same as above. Saturated.



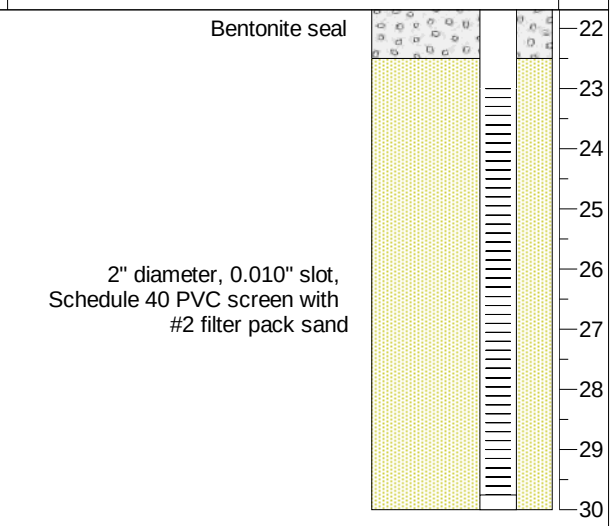
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-44A / IW-44B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647252.5311	EASTING: 2213090.2795
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26				SP	Coarse grey sand with well rounded gravel. Saturated.
27					
28				CL	Light grey clay. Wet.
29					
30					

End of Boring.

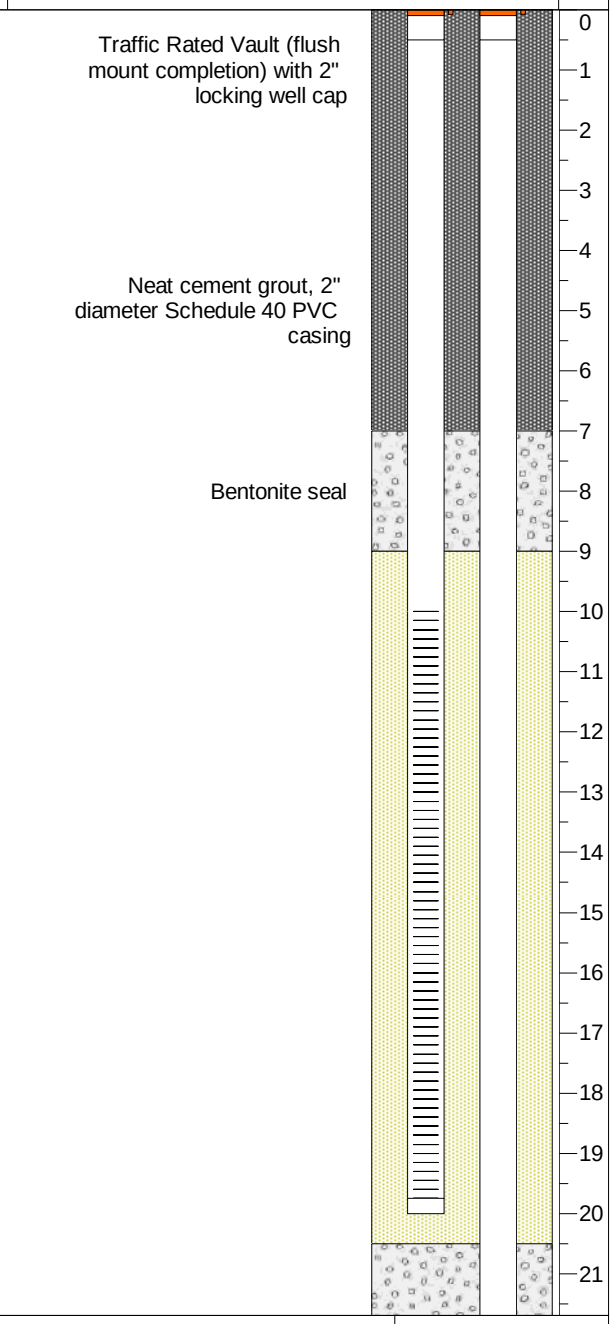


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-45A / IW-45B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647242.4213	EASTING: 2213363.1656
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–5					CL — Dark brown silty clay. Dry.
5–8					ML — Light brown clayey silt. Dry.
8–9					CL — Light tan silty clay. Very soft. Dry.
9–13					SC — Light tan and orange sandy clay. Wet.
13–21					SM — Light tan and orange fine grained sand. Saturated.



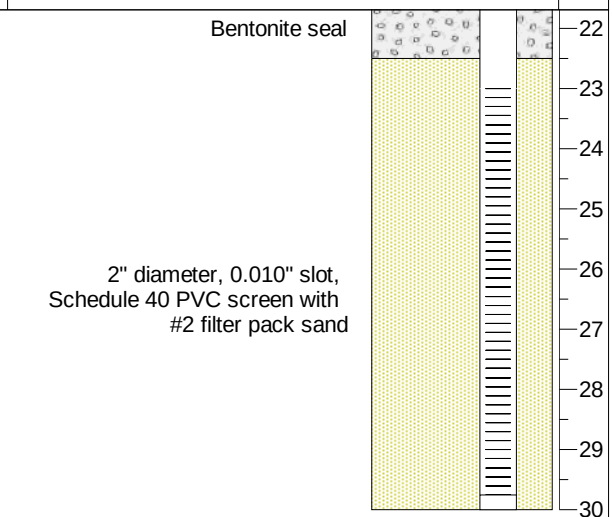
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-45A / IW-45B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647242.4213	EASTING: 2213363.1656
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					SP — Light tan and orange medium to coarse grained sand. Saturated.
26					
27					
28					
29					SP — Same as above, grey.
30					

End of Boring.

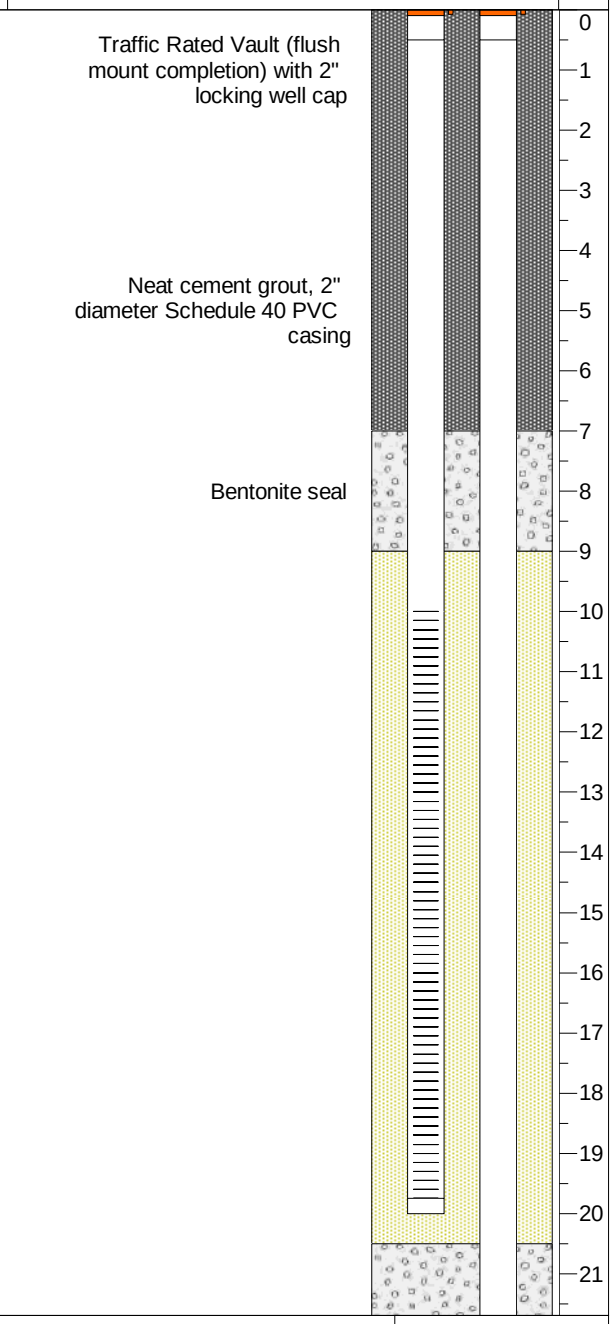


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-46A / IW-46B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647241.4452	EASTING: 2213393.0155
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–3					ML	Brown silt with roots. Dry, becoming moist with depth.
3–7					ML	Yellowish brown clayey silt. Moist.
7–11					CL	Yellowish tan silty clay. Moist to wet.
11–15					SP	Yellowish brown sand. Wet.
15–21					SP	Same as above, saturated.



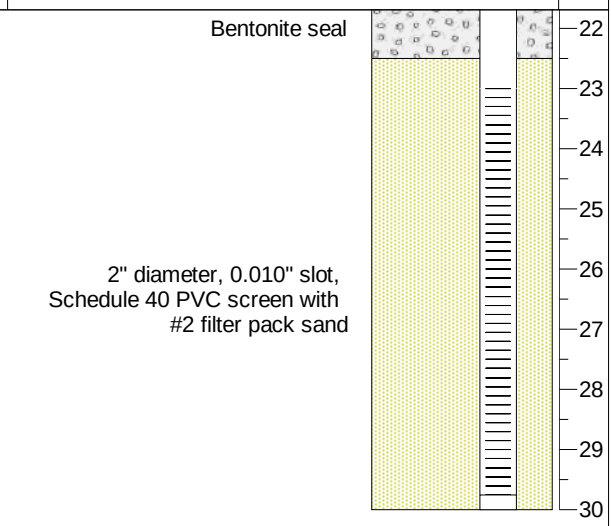
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-46A / IW-46B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647241.4452	EASTING: 2213393.0155
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24				SP	Same as above.
25					
26					
27					
28				SP	Coarse grey sand. Saturated.
29					
30					

End of Boring.

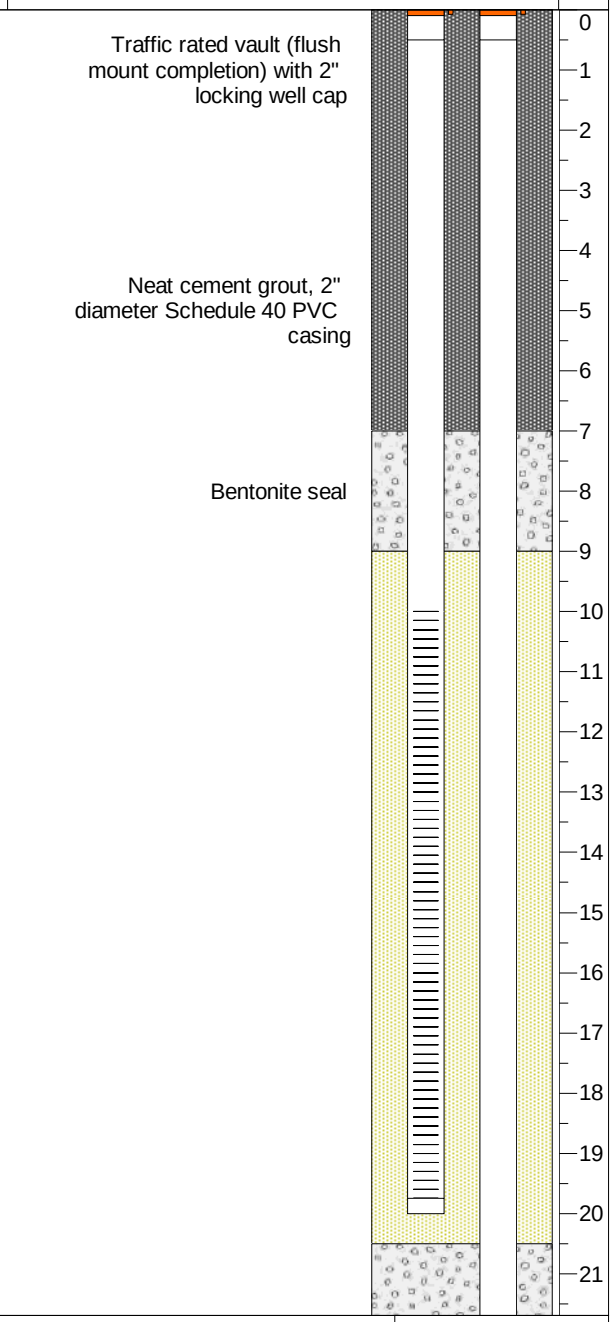


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-47A / IW-47B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647231.3482	EASTING: 2213383.5053
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–4					ML — Dark brown silt. Dry.
5–6					CL — Light brown to tan silty clay. Dry.
7–14					CL — Light grey silty clay. Dry.
15–21					SP — Orange and tan medium grained sand with fine to coarse gravel. Saturated.

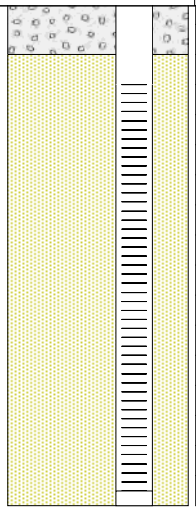


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-47A / IW-47B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647231.3482	EASTING: 2213383.5053
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS	
22						Bentonite seal
23						
24						
25						
26					SP Same as above.	2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand
27						
28						
29						
30						



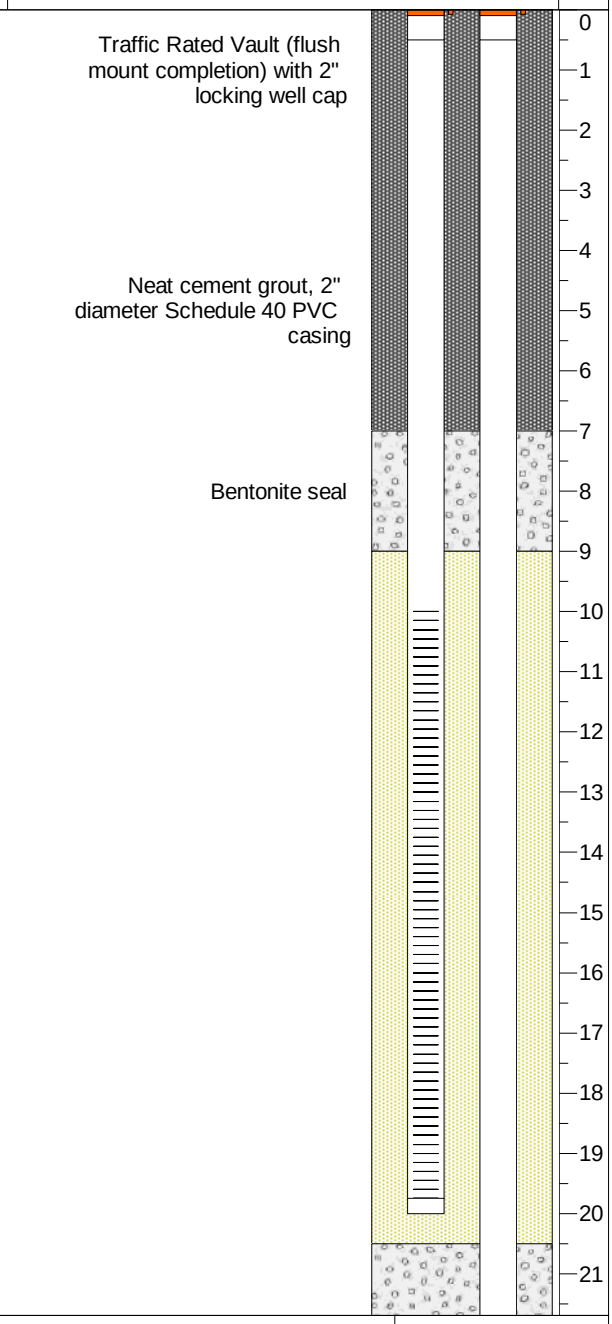
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-48A / IW-48B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647230.6171	EASTING: 2213408.0897
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–3					ML	Brown silt with roots. Dry, becoming moist with depth.
4–6					ML	Yellowish brown clayey silt. Moist.
7–9					CL	Yellowish brown silty clay. Moist.
10–21					SP	Yellowish brown sand. Wet.



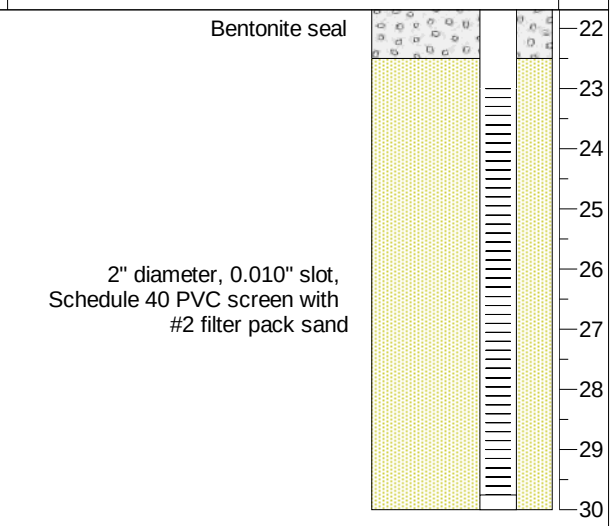
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-48A / IW-48B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647230.6171	EASTING: 2213408.0897
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27					
28				SP	Grey coarse sand with well rounded gravel. Saturated.
29					
30					

End of Boring.

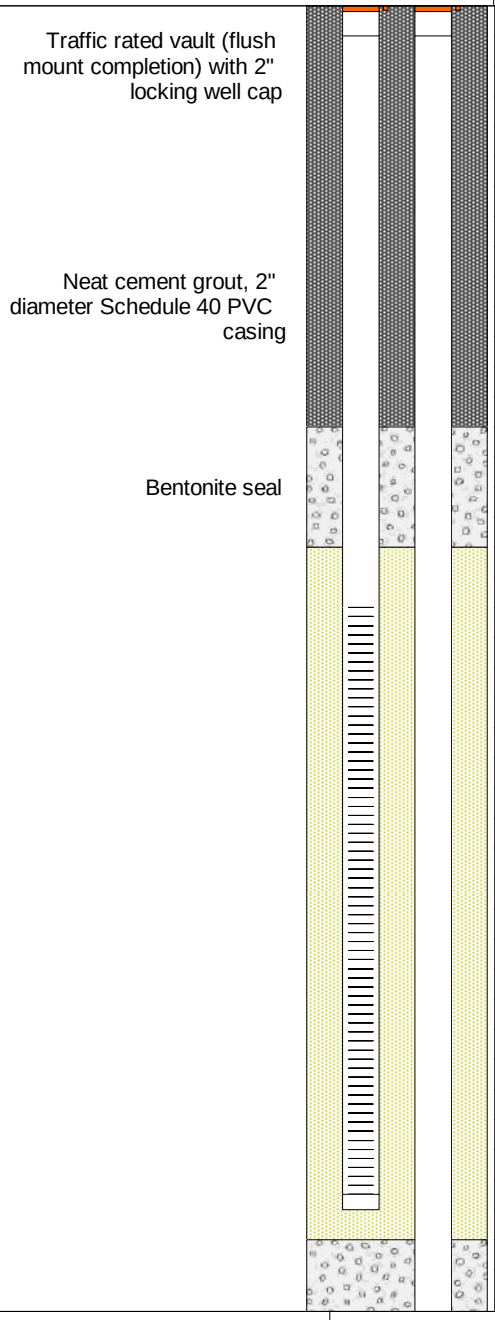


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-49A / IW-49B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647197.5296	EASTING: 2213377.8584
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–9					ML — Dark brown clayey silt. Dry.
10–16					SM — Orange and tan silty fine sand. Wet.
17–21					SP — Orange and tan medium grained sand. Saturated.



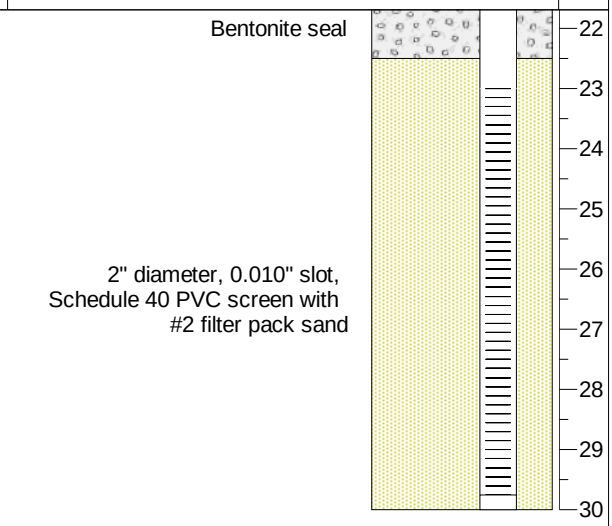
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-49A / IW-49B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647197.5296	EASTING: 2213377.8584
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					SP Same as above.
27					
28					
29					
30					

End of Boring.

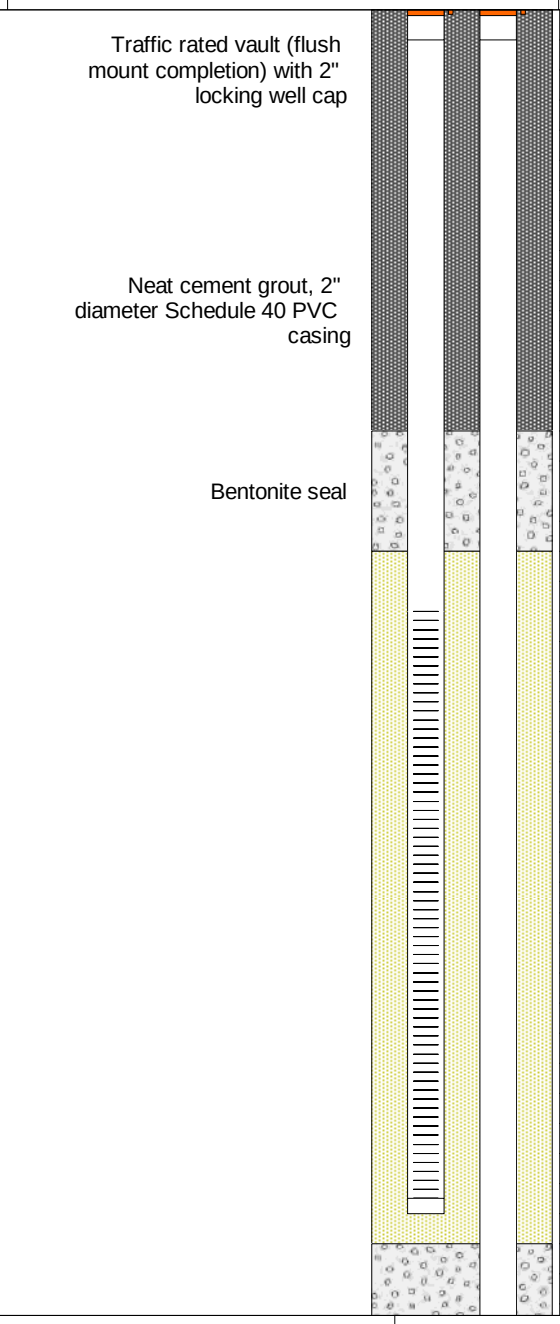


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-50A / IW-50B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647201.5675	EASTING: 2213408.138
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–5					CL — Dark brown silty clay. Dry.
5–12					CL — Tan to grey silty clay. Dry.
12–15					SC — Orange and tan clayey fine sand. Soft, wet.
15–21					SP — Orange and tan clayey medium to coarse grained sand. Saturated.

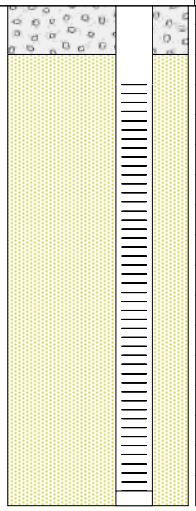


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-50A / IW-50B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647201.5675	EASTING: 2213408.138
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS		DEPTH (ftbgs)
22						Bentonite seal	22
23							23
24							24
25							25
26					SP Same as above.	2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand	26
27							27
28							28
29							29
30							30



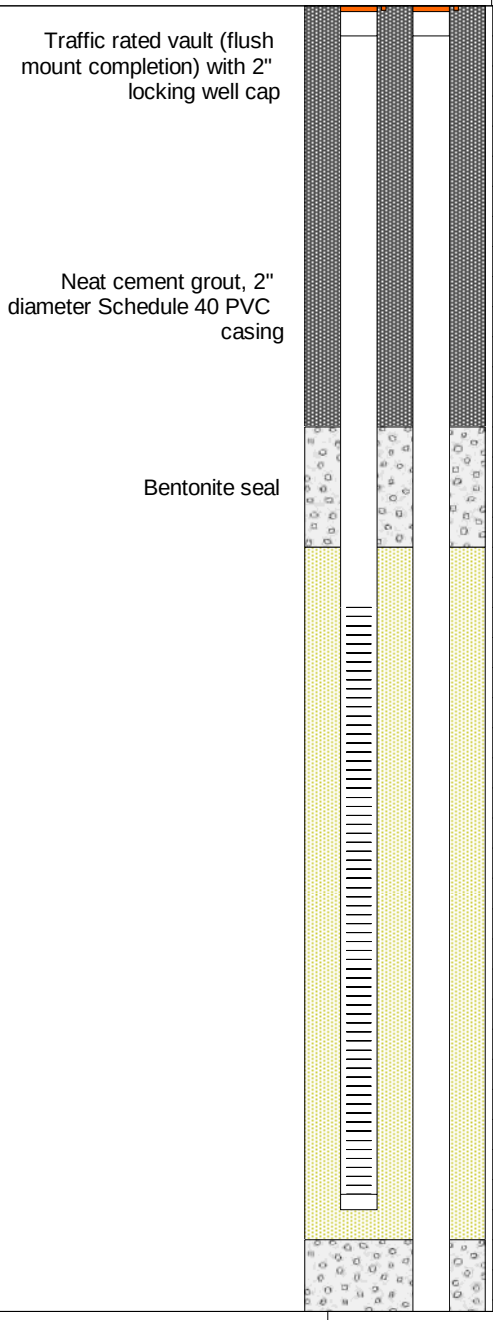
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-51A / IW-51B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647172.4442	EASTING: 2213408.5707
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–5					ML — Dark brown to tan clayey silt. Dry.
10–12					SM — Orange and tan silty fine sand. Moist.
13–16					SM — Same as above, saturated.
16–21					SP — Orange to light grey medium to coarse grained sand. Saturated.

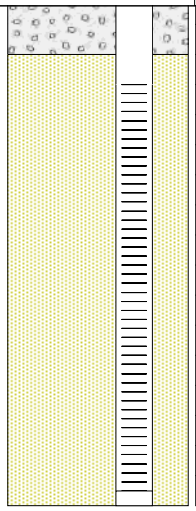


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-51A / IW-51B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647172.4442	EASTING: 2213408.5707
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS	
22						Bentonite seal
23						
24						
25						
26				SP	Same as above, grey.	2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand
27						
28						
29						
30						



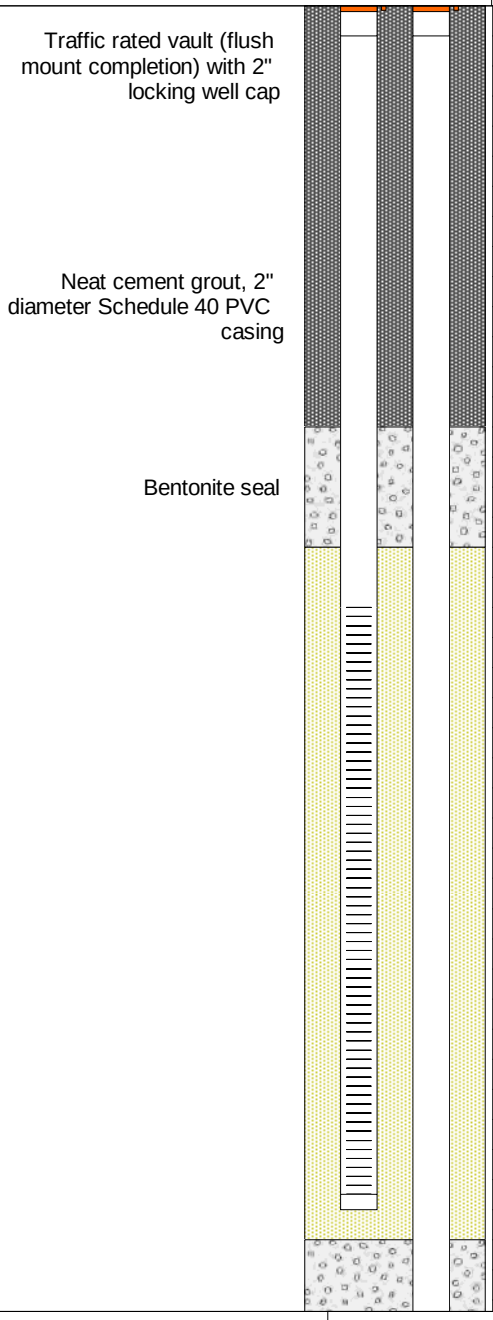
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-52A / IW-52B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647143.0856	EASTING: 2213406.7984
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–4					ML — Dark brown clayey silt. Dry.
5–10					CL — Orange and tan clay with silt. Soft, dry.
11–13					SC — Tan clayey fine sand. Moist.
14					SC — Same as above, saturated.
15–18					SP — Tan fine grained sand. Saturated.
19–21					SP — Orange and tan coarse grained sand with fine to coarse grained gravel. Saturated.



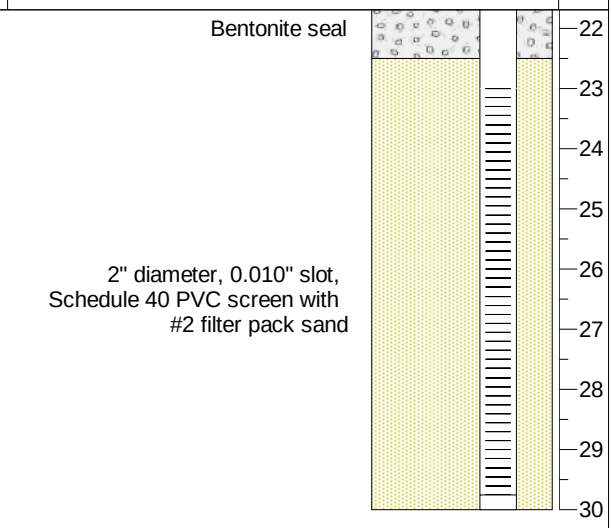
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-52A / IW-52B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647143.0856	EASTING: 2213406.7984
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24				SP	Same as above.
25					
26					
27					
28				SP	Same as above, grey.
29					
30					

End of Boring.

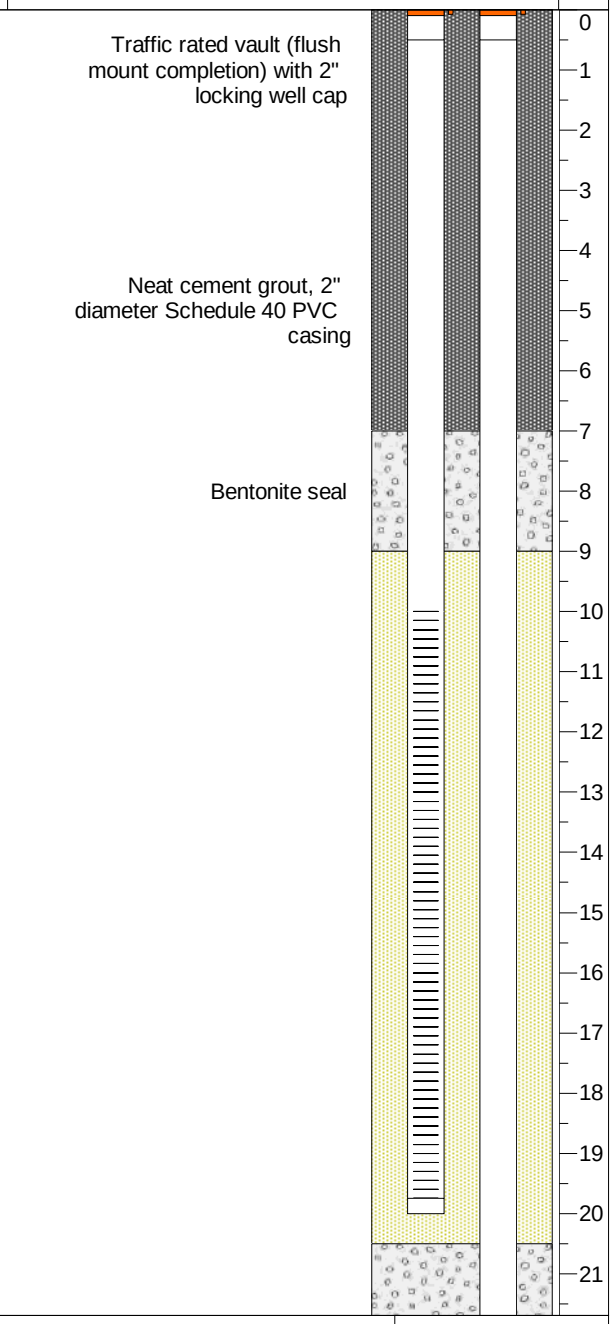


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-53A / IW-53B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647112.0594	EASTING: 2213405.1187
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–4					ML — Dark brown silt. Dry.
5–7					ML — Tan clayey silt. Dry.
7–20					CL — Orange and tan silty clay. Soft, dry.
20–21					SM — Orange and tan silty fine sand. Saturated.

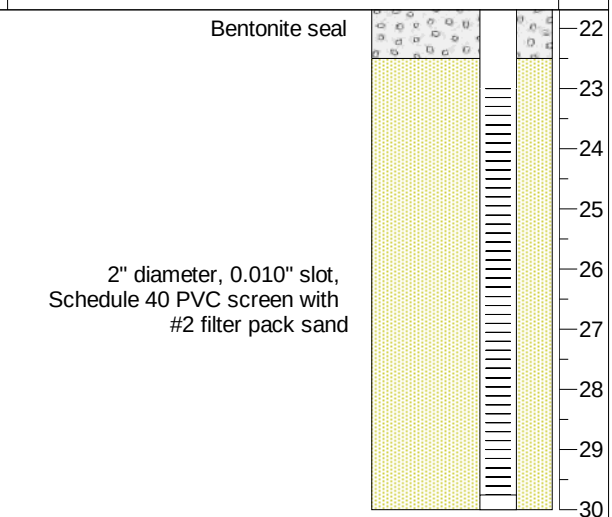


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-53A / IW-53B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647112.0594	EASTING: 2213405.1187
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					SM — Same as above.
23					
24					SP — Orange and tan fine to medium grained sand. Saturated.
25					
26					
27					SP — Same as above, grey.
28					
29					
30					End of Boring.

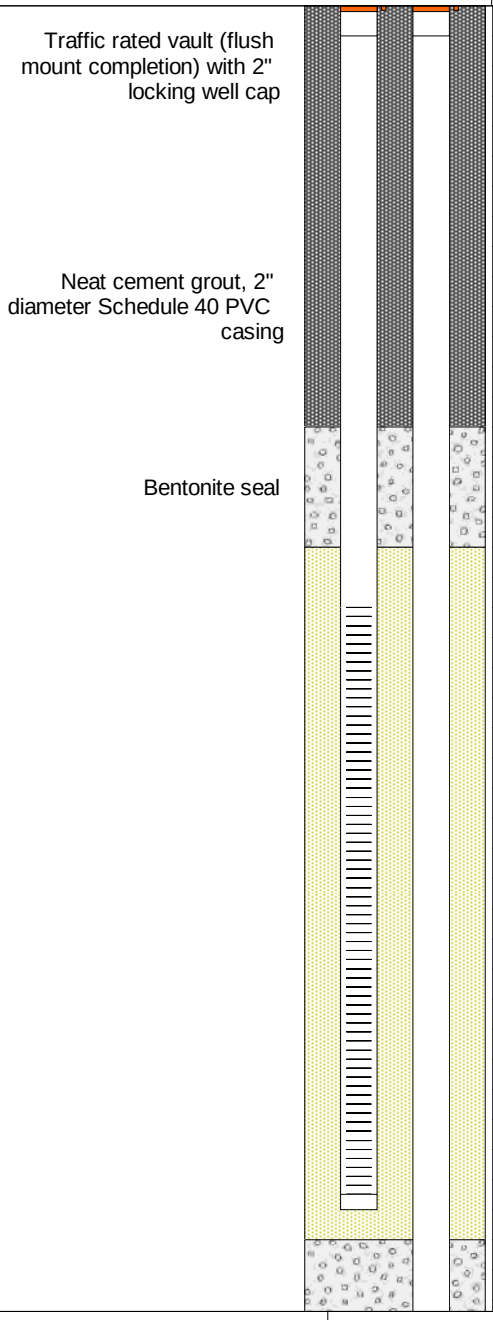


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-54A / IW-54B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647082.6415	EASTING: 2213404.8397
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					GM	Gravel and sandy fill.
1–3					ML	Dark brown silt. Dry.
5–7					ML	Tan clayey silt. Dry.
8–17					CL	Orange and tan clayey silt. Moist.
17–18					SM	Orange and tan silty fine sand. Saturated.
19–21					SP	Orange and tan fine to medium grained sand with fine to coarse grained gravel. Saturated.



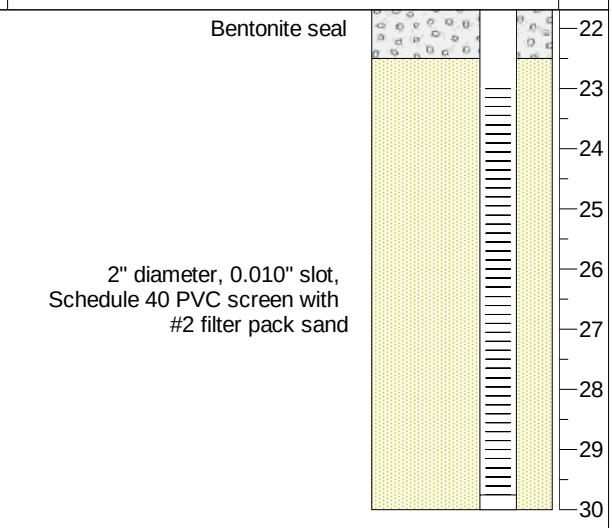
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-54A / IW-54B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/18/2013	DATE FINISHED: 9/18/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647082.6415	EASTING: 2213404.8397
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS	
22						
23				SP	Same as above.	
24						
25						
26						
27				SP	Same as above, grey.	
28						
29						
30						

End of Boring.

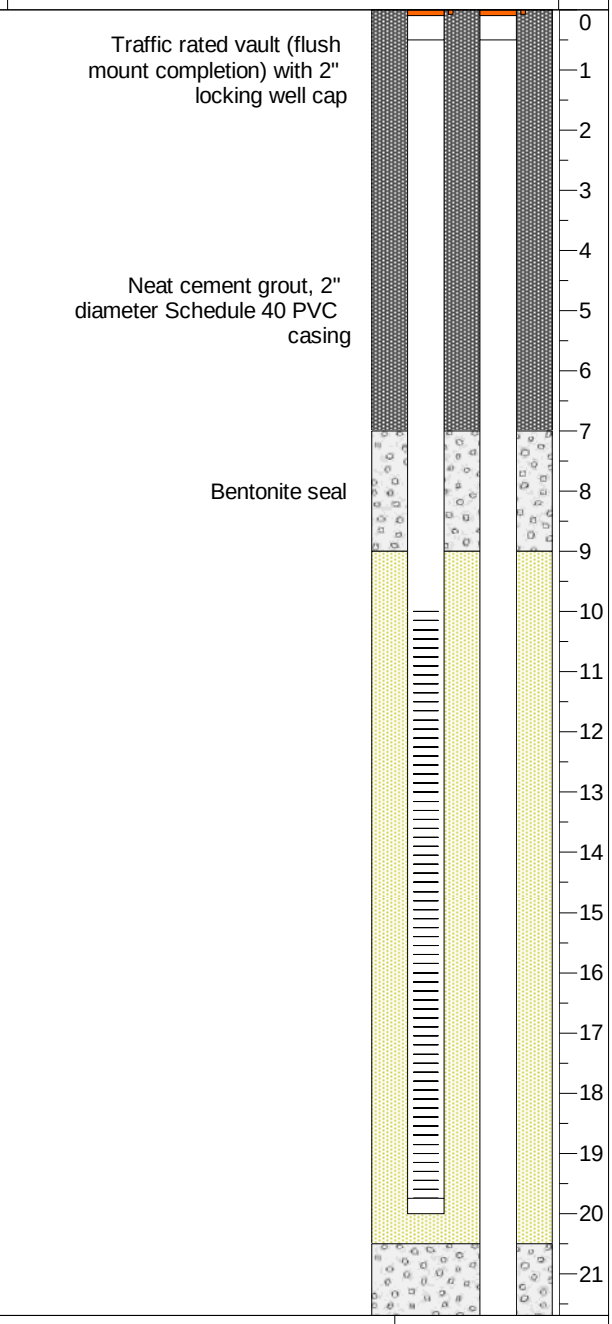


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-55A / IW-55B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647051.6009	EASTING: 2213404.7892
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–6					ML — Dark brown silt with clay. Dry.
6–12					CL — Tan silty clay. Very soft, dry.
12–16					SC — Orange and tan clayey fine sand. Wet.
16–21					SP — Orange and tan clayey fine to medium grained sand with minor cobble. Saturated.



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-55A / IW-55B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647051.6009	EASTING: 2213404.7892
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS		DEPTH (ft bgs)
22						Bentonite seal	22
23							23
24							24
25							25
26						2" diameter, 0.010" slot, Schedule 40 PVC screen with #2 filter pack sand	26
27					SP Same as above, grey.		27
28							28
29							29
30							30

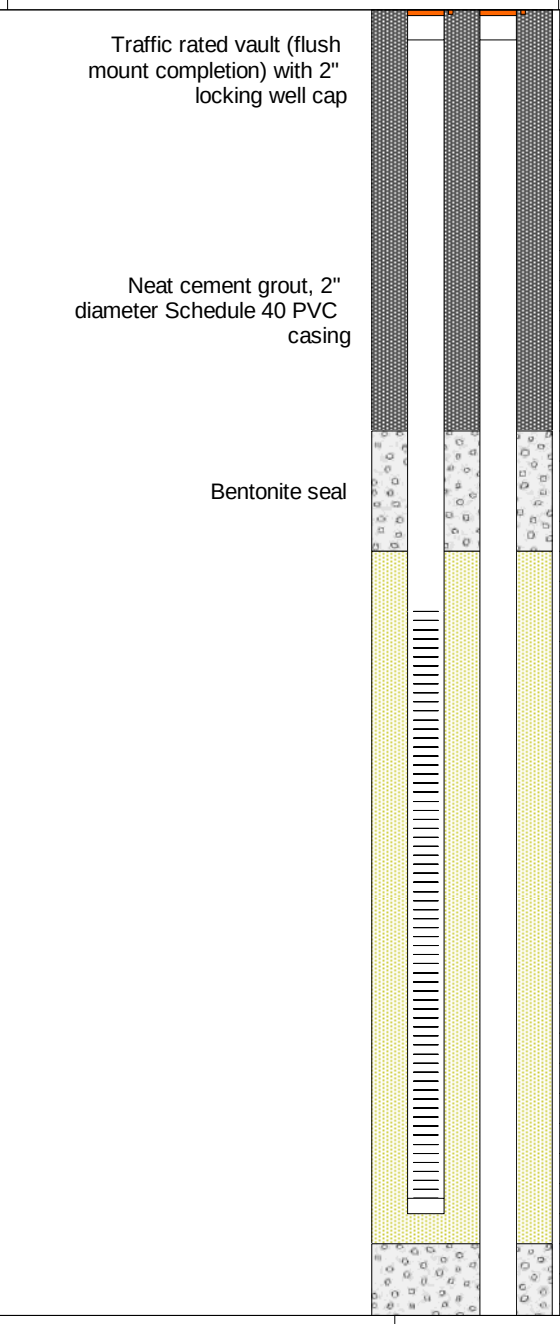
End of Boring.

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-56A / IW-56B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647050.7322	EASTING: 2213424.6894
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0–1					ML — Dark brown silt with gravel. Dry.
1–4					CL — Brick red silty clay. Dry.
4–16					CL — Tan to light brown silty clay. Dry.
16–18					CL — Same as above, saturated.
18–21					SW — Tan to orange clayey sand with fine to coarse gravel. Saturated.



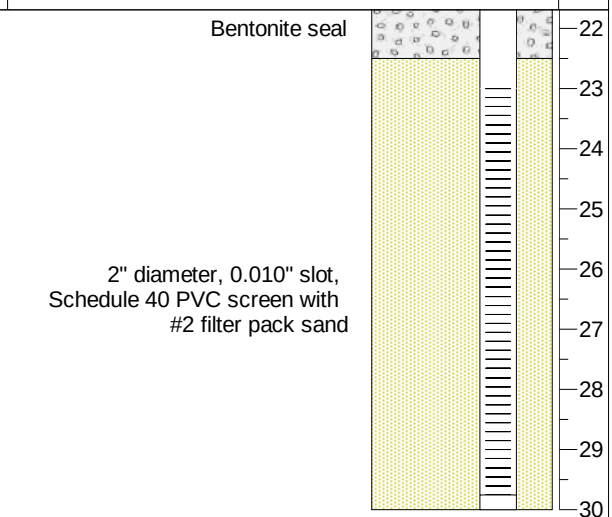
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-56A / IW-56B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/19/2013	DATE FINISHED: 9/19/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647050.7322	EASTING: 2213424.6894
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					SW Same as above.
25					
26					
27					
28					SW Same as above, grey.
29					
30					

End of Boring.

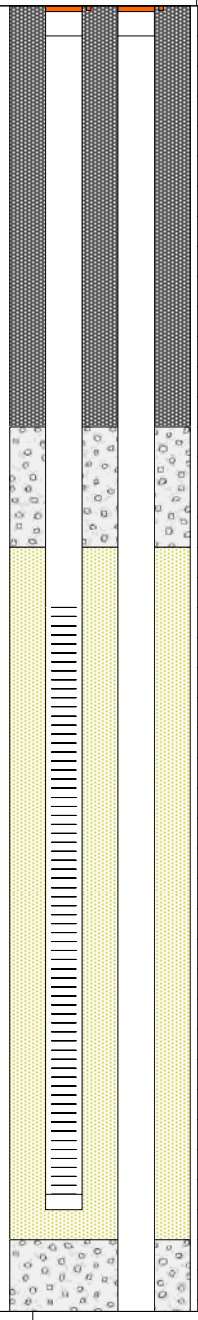


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-57A / IW-57B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647027.9479	EASTING: 2213404.1551
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0–7					CL	Dark brown clay, very soft. Dry.
7–8					CL	Same as above. Tan.
8–13					SC	Orange and tan clayey fine sand. Moist.
13–20					SM	Light tan fine grained sand. Wet.
20–21					SM	Same as above. Saturated.



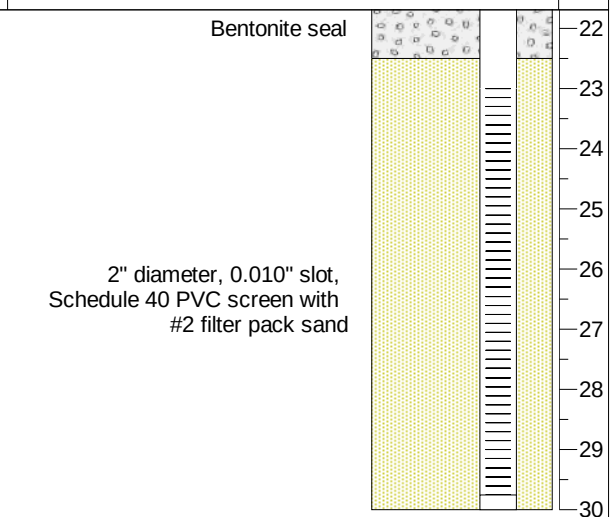
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-57A / IW-57B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647027.9479	EASTING: 2213404.1551
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					SM — Tan fine to medium grained quartz sand. Saturated.
26					
27					
28					
29					SP — Grey medium grained sand with round coarse gravel.
30					

End of Boring.



Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-57A / IW-57B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647027.9479	EASTING: 2213404.1551
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Samuel McIntyre	CHECKED BY:		

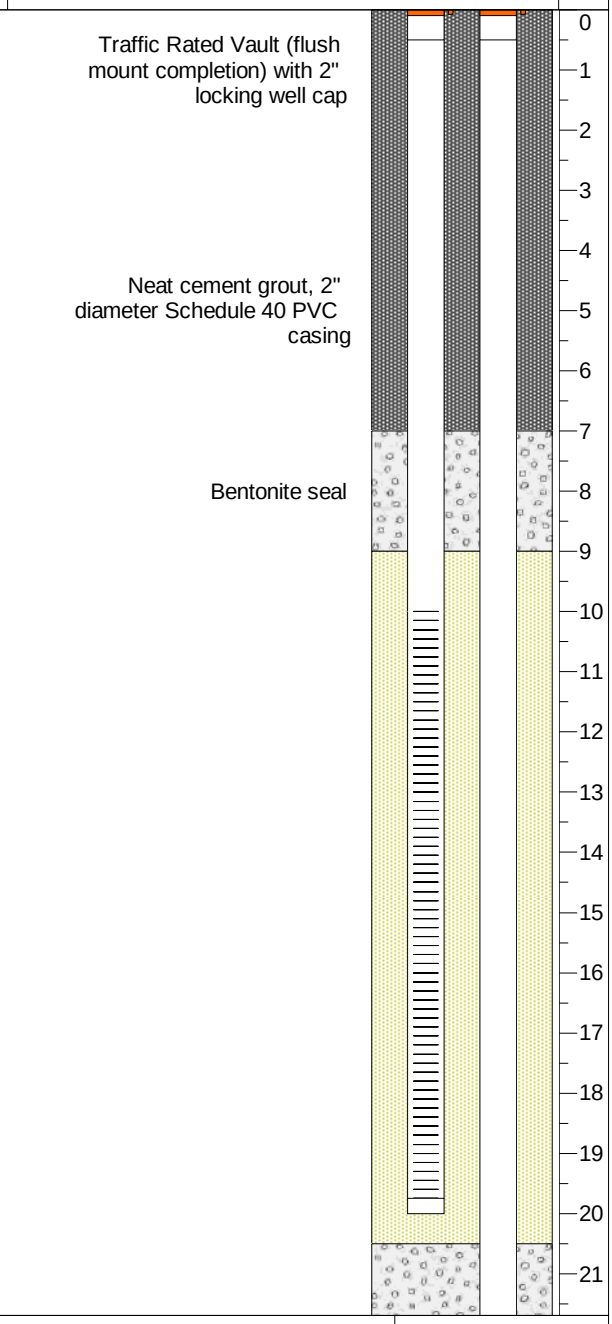
DEPTH (ft bgs)	SAMPLES			PID Reading (ppm)	DESCRIPTION OF MATERIALS		DEPTH (ft bgs)
	Sample ID	Lab Sample	Recovery				

Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-58A / IW-58B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647020.0355	EASTING: 2213424.4885
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–4					ML	Brown clayey silt. Moist.
5–6					ML	Reddish brown clayey silt. Moist.
7–12					CL	Yellowish brown silty clay. Moist to wet.
13–15					SP	Yellowish brown fine sand. Wet.
16–21					SP	Same as above, saturated.



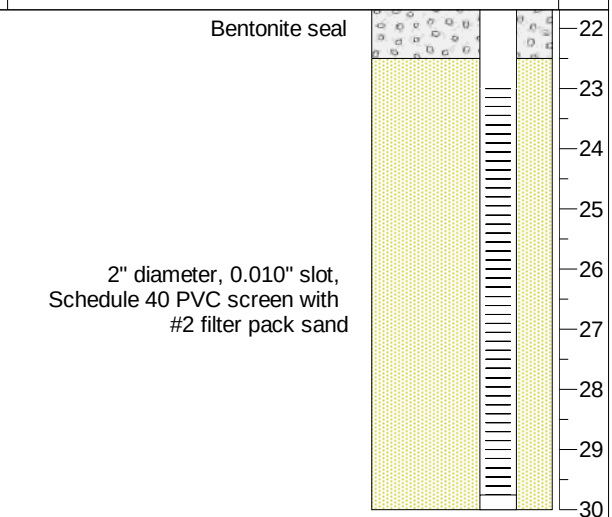
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-58A / IW-58B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 647020.0355	EASTING: 2213424.4885
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27					SP Grey coarse sand with well rounded gravel. Saturated.
28					
29					
30					

End of Boring.

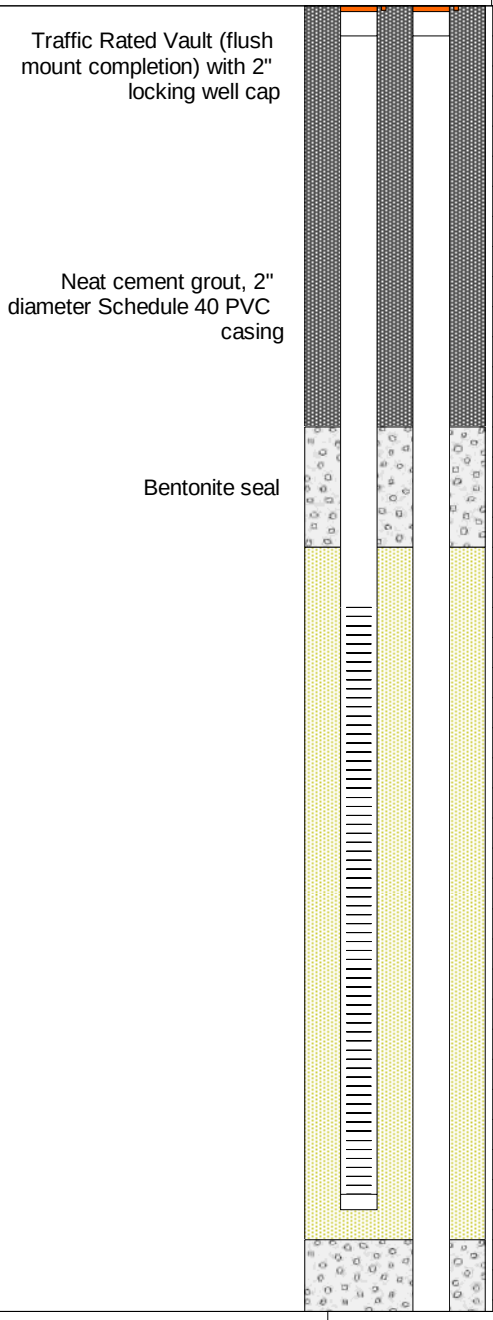


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-59A / IW-59B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 646991.398	EASTING: 2213403.7266
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
0					GM — Gravel and sandy fill.
1–3					ML — Brown silt. Moist.
3–6					ML — Brown clayey silt. Moist.
6–8					ML — Yellowish brown clayey silt. Moist.
8–13					CL — Yellowish brown silty clay. Moist to wet.
13–21					SP — Yellowish brown medium grained sand. Wet.



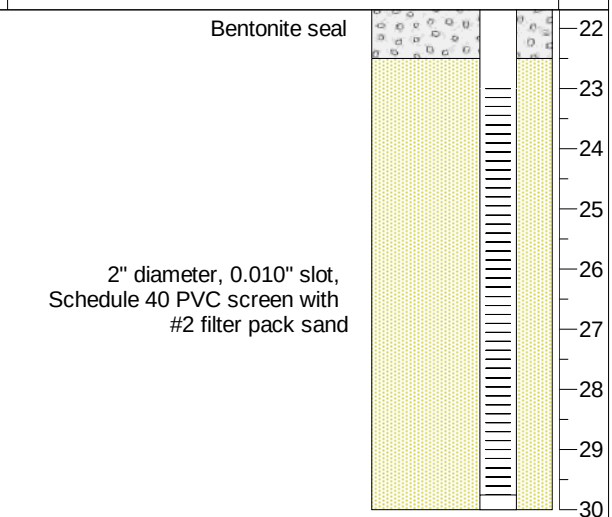
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-59A / IW-59B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/24/2013	DATE FINISHED: 9/24/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 646991.398	EASTING: 2213403.7266
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ftbgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24				SP	Same as above.
25					
26					
27					
28				SP	Coarse grey sand. Saturated.
29					
30					

End of Boring.

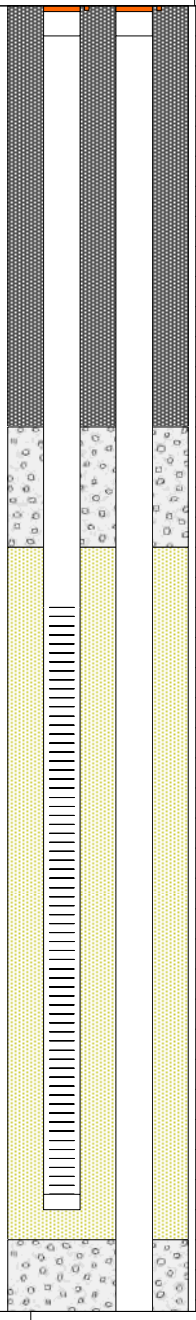


Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-60A / IW-60B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 646992.6178	EASTING: 2213426.3845
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	Lab Sample	Recovery	PID Reading (ppm)		DESCRIPTION OF MATERIALS
0					SP	Topsoil and sandy fill.
1–3					ML	Brown silt with roots. Moist.
3–7					ML	Reddish brown clayey silt. Moist.
7–9					ML	Reddish brown to yellowish brown clayey silt. Moist.
9–12					CL	Tan silty clay. Moist to wet.
12–21					SP	Yellowish brown medium grained sand. Wet.



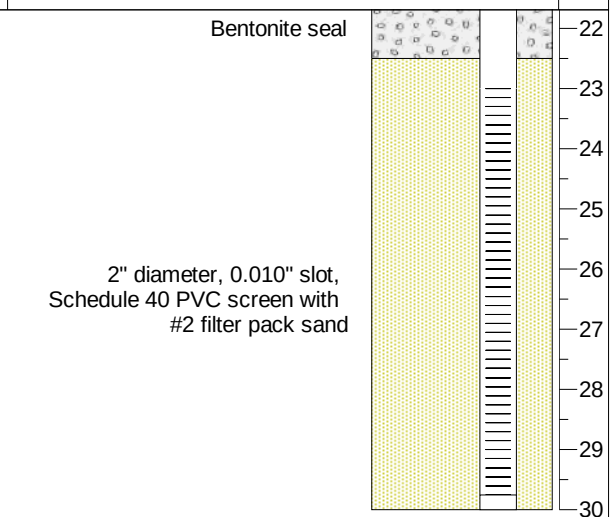
Solutions-IES
Industrial & Environmental Services

Log of Soil Boring IW-60A / IW-60B

BORING LOCATION:	Eaton Selma, NC	PROJECT NUMBER: 2013.0014.EATN	
DRILLING CONTRACTOR:	Geologic Exploration	DATE STARTED: 9/23/2013	DATE FINISHED: 9/23/2013
DRILLING METHOD:	Hollow Stem Auger	TOTAL DEPTH (ftbgs): 30'	SCREEN INTERVAL (ftbgs): 10-20', 23-30'
DRILLING EQUIPMENT:	Diedrich D-120	NORTHING: 646992.6178	EASTING: 2213426.3845
SAMPLING METHOD:	Soil Cuttings	INITIAL DTW: NA	FINAL DTW: NA
LOGGED BY: Nick Shore	CHECKED BY:		

DEPTH (ft bgs)	SAMPLES: Sample ID	SAMPLES: Lab Sample	SAMPLES: Recovery	PID Reading (ppm)	DESCRIPTION OF MATERIALS
22					
23					
24					
25					
26					
27					SP Grey coarse sand with well rounded gravel. Saturated.
28					
29					
30					

End of Boring.



APPENDIX C

WELL SURVEY

KCI
Landmark Center II
Suite 220
4601 Six Forks Road
Raleigh, NC 27609
(919) 783-9214
(919) 783-9266 Fax

INJECTION & MONITORING WELL SHEET

Project:	SOLUTIONS - SELMA	Date: 10/11/13
Project No:	35134131A	Crew: MK

Well	Northing	Easting	Top Elev	Top PVC - A	Top PVC - B	Ground Elev
IW-1	647379.91	2213014.03	175.06	174.67	174.63	171.68
IW-2	647362.03	2212991.51	175.48	174.95	175.08	172.06
IW-3	647359.80	2213021.64	175.38	174.96	174.99	171.69
IW-4	647360.11	2213051.35	174.79	174.41	174.36	171.57
IW-5	647342.79	2213039.63	175.20	174.78	174.82	171.91
IW-6	647332.21	2212990.34	175.05	174.63	174.67	171.74
IW-7	647331.18	2213021.01	175.05	174.67	174.63	171.82
IW-8	647330.30	2213050.94	175.59	175.04	175.12	172.15
IW-9	647328.97	2213078.50	171.86	171.34	171.56	171.71
IW-10	647312.87	2212977.83	175.20	174.82	174.76	171.93
IW-11	647301.26	2212989.85	171.23	170.87	170.79	171.32
IW-12	647301.75	2213017.10	171.30	170.76	170.83	171.33
IW-13	647301.96	2213050.92	171.47	171.06	171.16	171.37
IW-14	647299.64	2213079.73	171.54	170.76	171.14	171.42
IW-15	647299.08	2213110.10	171.75	171.49	171.51	171.77
IW-16	647300.64	2213143.69	171.95	171.37	171.53	171.93
IW-17	647297.92	2213170.15	171.94	171.60	171.66	171.90
IW-18	647297.27	2213200.72	171.66	171.04	171.20	171.54
IW-19	647299.73	2213231.04	171.49	171.03	171.12	171.39
IW-20	647296.15	2213260.01	171.22	170.47	170.73	171.07
IW-21	647296.28	2213290.50	171.31	170.64	170.99	171.20
IW-22	647294.37	2213319.64	171.41	170.77	170.92	171.25
IW-23	647293.10	2213351.37	171.57	170.75	170.85	171.36
IW-24	647292.28	2213380.15	171.95	171.08	171.20	171.84
IW-25	647280.24	2213097.93	172.04	171.42	171.66	172.01
IW-26	647266.40	2212986.21	171.57	171.07	171.34	171.57
IW-27	647270.41	2213016.64	171.29	171.00	171.07	171.30
IW-28	647269.86	2213046.31	171.66	171.14	171.16	171.66
IW-29	647269.57	2213078.09	172.11	171.79	171.90	172.13
IW-30	647268.77	2213109.58	172.56	171.92	172.29	172.55
IW-31	647268.22	2213139.49	172.84	172.29	172.59	172.84
IW-32	647267.13	2213169.71	172.69	172.21	172.33	172.69
IW-33	647270.49	2213198.43	172.07	171.60	171.77	171.88
IW-34	647267.48	2213229.64	171.85	171.36	171.55	171.78
IW-35	647266.74	2213260.74	171.86	171.19	171.42	171.76
IW-36	647265.70	2213289.53	171.72	171.36	171.47	171.65
IW-37	647265.00	2213319.98	171.77	171.16	171.26	171.73
IW-38	647264.08	2213349.57	171.86	171.36	171.55	171.81
IW-39	647263.80	2213377.14	172.00	171.25	171.66	171.96
IW-40	647265.99	2213405.75	172.09	171.62	171.60	172.04
IW-41	647242.05	2212989.04	171.53	171.11	171.29	171.40
IW-42	647240.39	2213018.36	171.16	170.94	170.57	171.11
IW-43	647245.15	2213051.23	171.93	171.13	171.54	171.80
IW-44	647252.53	2213090.28	172.51	171.98	172.11	172.51
IW-45	647242.42	2213363.17	172.00	171.51	171.27	171.84
IW-46	647241.45	2213393.02	171.95	171.15	171.45	171.86
IW-47	647231.35	2213383.51	171.53	170.99	171.23	171.45
IW-48	647230.62	2213408.09	171.52	171.02	171.06	171.37
IW-49	647197.53	2213377.86	171.53	170.74	170.89	171.35
IW-50	647201.57	2213408.14	171.48	171.16	171.28	171.42
IW-51	647172.44	2213408.57	171.28	170.70	170.79	171.21
IW-52	647143.09	2213406.80	171.27	170.66	170.61	171.30
IW-53	647112.06	2213405.12	171.50	170.86	170.87	171.36
IW-54	647082.64	2213404.84	171.37	171.02	171.10	171.35
IW-55	647051.60	2213404.79	171.41	170.76	170.80	171.34
IW-56	647050.73	2213424.69	171.28	170.69	170.87	171.18
IW-57	647027.95	2213404.16	171.58	171.34	171.26	171.50
IW-58	647020.04	2213424.49	171.15	170.83	170.70	171.13
IW-59	646991.40	2213403.73	171.55	170.96	170.89	171.52
IW-60	646992.62	2213426.38	171.33	170.54	170.76	171.30
MW-16	647345.96	2213007.05	175.12	174.78		171.71
MW-17	647213.97	2213032.89	172.54	172.19		172.41
MW-18	647291.13	2213414.58	172.18	171.43		172.01
MW-19	646954.96	2213388.08	171.37	171.19		171.39
MW-20	647237.41	2213207.95	172.70	172.10		172.32

HORIZONTAL BASED ON NAD '83 AND VERTICAL BASED NAVD '88

NORTH CAROLINA PROFESSIONAL SEAL L-4534 LAND SURVEYOR ROBERT C. BAUMGARTNER
10/15/13

APPENDIX D

IDW LABORATORY ANALYTICAL REPORT

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

10/15/2013

Solutions-IES, Inc.
Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Lab Submittal Date: 09/27/2013
Prism Work Order: 3090541

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash
President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

10/15/2013

Prism Work Order: 3090541

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
IDW-Soil-904	3090541-01	Solid	09/27/13	09/27/13
IDW-Soil-910	3090541-02	Solid	09/27/13	09/27/13
IDW-Soil-907	3090541-03	Solid	09/27/13	09/27/13
IDW-Decon-1	3090541-04	Water	09/27/13	09/27/13
IDW-Develop-1	3090541-05	Water	09/27/13	09/27/13
IDW-Drum-1	3090541-06	Solid	09/27/13	09/27/13
IDW-Purge	3090541-07	Water	09/27/13	09/27/13
Trip Blank	3090541-08	Water	09/27/13	09/27/13

Samples were received in good condition at 4.6 degrees C unless otherwise noted.

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

10/15/2013

Prism Work Order: 3090541

Prism ID	Client ID	Parameter	Method	Result		Units
3090541-01	IDW-Soil-904	1,1,1-Trichloroethane	8260B	0.13		mg/kg dry
3090541-01	IDW-Soil-904	1,1-Dichloroethane	8260B	0.0093		mg/kg dry
3090541-01	IDW-Soil-904	1,1-Dichloroethylene	8260B	0.15		mg/kg dry
3090541-01	IDW-Soil-904	cis-1,2-Dichloroethylene	8260B	0.020		mg/kg dry
3090541-01	IDW-Soil-904	Ethylbenzene	8260B	0.0022	J	mg/kg dry
3090541-01	IDW-Soil-904	m,p-Xylenes	8260B	0.0072	J	mg/kg dry
3090541-01	IDW-Soil-904	o-Xylene	8260B	0.0017	J	mg/kg dry
3090541-01	IDW-Soil-904	Trichloroethylene	8260B	0.12		mg/kg dry
3090541-01	IDW-Soil-904	Trichlorofluoromethane	8260B	0.0045		mg/kg dry
3090541-01	IDW-Soil-904	Vinyl chloride	8260B	0.0021	J	mg/kg dry
3090541-01	IDW-Soil-904	Xylenes, total	8260B	0.0089	J	mg/kg dry
3090541-01	IDW-Soil-904	Tetrachloroethylene	8260B	9.0		mg/kg dry
3090541-02	IDW-Soil-910	1,1,1-Trichloroethane	8260B/5030B	0.0056		mg/kg dry
3090541-02	IDW-Soil-910	1,1,1-Trichloroethane	8260B	0.0082		mg/kg dry
3090541-02	IDW-Soil-910	1,1-Dichloroethylene	8260B/5030B	0.0034	J	mg/kg dry
3090541-02	IDW-Soil-910	1,1-Dichloroethylene	8260B	0.0038	J	mg/kg dry
3090541-02	IDW-Soil-910	Acetone	8260B	0.0085	J	mg/kg dry
3090541-02	IDW-Soil-910	Tetrachloroethylene	8260B	0.11		mg/kg dry
3090541-02	IDW-Soil-910	Tetrachloroethylene	8260B/5030B	0.17		mg/kg dry
3090541-02	IDW-Soil-910	Trichloroethylene	8260B	0.0049	J	mg/kg dry
3090541-02	IDW-Soil-910	Trichloroethylene	8260B/5030B	0.0070		mg/kg dry
3090541-03	IDW-Soil-907	1,1,1-Trichloroethane	8260B	0.0072		mg/kg dry
3090541-03	IDW-Soil-907	1,1-Dichloroethane	8260B	0.0027	J	mg/kg dry
3090541-03	IDW-Soil-907	1,1-Dichloroethylene	8260B	0.050		mg/kg dry
3090541-03	IDW-Soil-907	1,2-Dichlorobenzene	8260B	0.0088	J	mg/kg dry
3090541-03	IDW-Soil-907	Acetone	8260B	0.10		mg/kg dry
3090541-03	IDW-Soil-907	cis-1,2-Dichloroethylene	8260B	0.0047	J	mg/kg dry
3090541-03	IDW-Soil-907	Methyl Ethyl Ketone (2-Butanone)	8260B	0.0021	J	mg/kg dry
3090541-03	IDW-Soil-907	Trichloroethylene	8260B	0.022		mg/kg dry
3090541-03	IDW-Soil-907	Tetrachloroethylene	8260B	0.87		mg/kg dry
3090541-04	IDW-Decon-1	1,1,1-Trichloroethane	8260B	1.2		ug/L
3090541-04	IDW-Decon-1	1,1-Dichloroethylene	8260B	0.79		ug/L
3090541-04	IDW-Decon-1	Acetone	8260B	6.6		ug/L
3090541-04	IDW-Decon-1	Tetrachloroethylene	8260B	22		ug/L
3090541-04	IDW-Decon-1	Trichloroethylene	8260B	0.86		ug/L
3090541-05	IDW-Develop-1	1,1,1-Trichloroethane	8260B	210		ug/L
3090541-05	IDW-Develop-1	1,1-Dichloroethane	8260B	11		ug/L
3090541-05	IDW-Develop-1	1,1-Dichloroethylene	8260B	70		ug/L
3090541-05	IDW-Develop-1	cis-1,2-Dichloroethylene	8260B	15		ug/L
3090541-05	IDW-Develop-1	Tetrachloroethylene	8260B	1500		ug/L
3090541-05	IDW-Develop-1	Trichloroethylene	8260B	70		ug/L
3090541-06	IDW-Drum-1	cis-1,2-Dichloroethylene	8260B	0.090		mg/kg dry
3090541-06	IDW-Drum-1	Tetrachloroethylene	8260B	0.0024	J	mg/kg dry
3090541-07	IDW-Purge	1,1,1-Trichloroethane	8260B	0.75		ug/L

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

10/15/2013

Prism Work Order: 3090541

Prism ID	Client ID	Parameter	Method	Result	Units
3090541-07	IDW-Purge	1,1-Dichloroethylene	8260B	4.2	ug/L
3090541-07	IDW-Purge	Tetrachloroethylene	8260B	60	ug/L
3090541-07	IDW-Purge	Trichloroethylene	8260B	2.9	ug/L

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-904
Prism Sample ID: 3090541-01
Prism Work Order: 3090541
Time Collected: 09/27/13 09:30
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**79.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
1,1,1-Trichloroethane	**0.13**	**mg/kg dry**	**0.0040**	**0.00013**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0040	0.00067	1	8260B	10/5/13 3:56	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0040	0.00034	1	8260B	10/5/13 3:56	MSC	P3J0104
1,1-Dichloroethane	**0.0093**	**mg/kg dry**	**0.0040**	**0.00034**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
1,1-Dichloroethylene	**0.15**	**mg/kg dry**	**0.0040**	**0.00025**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
1,1-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00042	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0081	0.00030	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0040	0.00061	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0081	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0081	0.00079	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0040	0.0012	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0040	0.00046	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.00018	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dichloroethane	BRL	mg/kg dry	0.0040	0.00065	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0040	0.00026	1	8260B	10/5/13 3:56	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0081	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.000056	1	8260B	10/5/13 3:56	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0040	0.00044	1	8260B	10/5/13 3:56	MSC	P3J0104
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.00030	1	8260B	10/5/13 3:56	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0040	0.00025	1	8260B	10/5/13 3:56	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.0081	0.0023	1	8260B	10/5/13 3:56	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.0081	0.00025	1	8260B	10/5/13 3:56	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.0081	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.012	0.00026	1	8260B	10/5/13 3:56	MSC	P3J0104
Acetone	BRL	mg/kg dry	0.016	0.0021	1	8260B	10/5/13 3:56	MSC	P3J0104
Acrolein	BRL	mg/kg dry	0.081	0.0024	1	8260B	10/5/13 3:56	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.081	0.0020	1	8260B	10/5/13 3:56	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0024	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0040	0.00059	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0040	0.00071	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.0081	0.0011	1	8260B	10/5/13 3:56	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.0081	0.00034	1	8260B	10/5/13 3:56	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0040	0.00022	1	8260B	10/5/13 3:56	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.0081	0.0031	1	8260B	10/5/13 3:56	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/13 3:56	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-904
Prism Sample ID: 3090541-01
Prism Work Order: 3090541
Time Collected: 09/27/13 09:30
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	0.0081	0.0020	1	8260B	10/5/13 3:56	MSC	P3J0104
cis-1,2-Dichloroethylene	**0.020**	**mg/kg dry**	**0.0040**	**0.00033**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00020	1	8260B	10/5/13 3:56	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0040	0.00027	1	8260B	10/5/13 3:56	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0040	0.00027	1	8260B	10/5/13 3:56	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.0081	0.00043	1	8260B	10/5/13 3:56	MSC	P3J0104
Ethylbenzene	**0.0022 J**	**mg/kg dry**	**0.0040**	**0.00026**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Hexachlorobutadiene	BRL	mg/kg dry	0.012	0.00052	1	8260B	10/5/13 3:56	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/13 3:56	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0081	0.00020	1	8260B	10/5/13 3:56	MSC	P3J0104
m,p-Xylenes	**0.0072 J**	**mg/kg dry**	**0.0081**	**0.00052**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.040	0.00083	1	8260B	10/5/13 3:56	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.016	0.0014	1	8260B	10/5/13 3:56	MSC	P3J0104
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.0081	0.0011	1	8260B	10/5/13 3:56	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.0081	0.00029	1	8260B	10/5/13 3:56	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0040	0.00031	1	8260B	10/5/13 3:56	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0040	0.00030	1	8260B	10/5/13 3:56	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.012	0.00018	1	8260B	10/5/13 3:56	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.0081	0.00023	1	8260B	10/5/13 3:56	MSC	P3J0104
o-Xylene	**0.0017 J**	**mg/kg dry**	**0.0040**	**0.00026**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
sec-Butylbenzene	BRL	mg/kg dry	0.012	0.00016	1	8260B	10/5/13 3:56	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0040	0.00018	1	8260B	10/5/13 3:56	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.016	0.00021	1	8260B	10/5/13 3:56	MSC	P3J0104
Tetrachloroethylene	See 8260ML	mg/kg dry	0.0081	0.00028	1	8260B	10/5/13 3:56	MSC	P3J0104
Toluene	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0040	0.00047	1	8260B	10/5/13 3:56	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
Trichloroethylene	**0.12**	**mg/kg dry**	**0.0040**	**0.00037**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Trichlorofluoromethane	**0.0045**	**mg/kg dry**	**0.0040**	**0.00033**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Vinyl acetate	BRL	mg/kg dry	0.0081	0.0011	1	8260B	10/5/13 3:56	MSC	P3J0104
Vinyl chloride	**0.0021 J**	**mg/kg dry**	**0.0081**	**0.00052**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Xylenes, total	**0.0089 J**	**mg/kg dry**	**0.012**	**0.00076**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*114 %*	*84-123*
Toluene-d8	*103 %*	*76-129*

Volatile Organic Compounds by GC/MS (Medium Level)

Tetrachloroethylene	**9.0**	**mg/kg dry**	**2.5**	**0.76**	**500**	**8260B**	**10/7/13 16:48**	**MSC**	**P3J0142**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*109 %*	*70-130*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**78.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1,1-Trichloroethane	**0.0056**	**mg/kg dry**	**0.0055**	**0.00018**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
1,1,1-Trichloroethane	**0.0082**	**mg/kg dry**	**0.0050**	**0.00016**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00082	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00091	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.00042	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00046	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.00042	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00046	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1-Dichloroethylene	**0.0034 J**	**mg/kg dry**	**0.0055**	**0.00033**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
1,1-Dichloroethylene	**0.0038 J**	**mg/kg dry**	**0.0050**	**0.00030**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00053	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00058	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00037	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.011	0.00041	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.00075	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00083	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00029	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.011	0.00032	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.010	0.00098	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.011	0.0011	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0050	0.0015	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0055	0.0017	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.00057	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00063	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dichlorobenzene	BRL	mg/kg dry	0.010	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dichlorobenzene	BRL	mg/kg dry	0.011	0.00025	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.00080	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00088	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.010	0.00024	1	8260B	10/5/13 4:20	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.011	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,3-Dichlorobenzene	BRL	mg/kg dry	0.010	0.000069	1	8260B	10/5/13 4:20	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.011	0.000076	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.00054	1	8260B	10/5/13 4:20	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00059	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,4-Dichlorobenzene	BRL	mg/kg dry	0.010	0.00036	1	8260B	10/5/13 4:20	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dichlorobenzene	BRL	mg/kg dry	0.011	0.00040	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.010	0.0028	1	8260B	10/5/13 4:20	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.011	0.0031	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
2-Chlorotoluene	BRL	mg/kg dry	0.010	0.00031	1	8260B	10/5/13 4:20	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.011	0.00034	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
4-Chlorotoluene	BRL	mg/kg dry	0.010	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.011	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
4-Isopropyltoluene	BRL	mg/kg dry	0.015	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.016	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Acetone	**0.0085 J**	**mg/kg dry**	**0.020**	**0.0027**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
Acetone	BRL	mg/kg dry	0.022	0.0029	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Acrolein	BRL	mg/kg dry	0.10	0.0030	1	8260B	10/5/13 4:20	MSC	P3J0104
Acrolein	BRL	mg/kg dry	0.11	0.0033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Acrylonitrile	BRL	mg/kg dry	0.10	0.0025	1	8260B	10/5/13 4:20	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.11	0.0027	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Benzene	BRL	mg/kg dry	0.0030	0.00030	1	8260B	10/5/13 4:20	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0033	0.00033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromobenzene	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0055	0.00023	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromochloromethane	BRL	mg/kg dry	0.0050	0.00073	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00080	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromoform	BRL	mg/kg dry	0.0050	0.00088	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0055	0.00097	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromomethane	BRL	mg/kg dry	0.010	0.0014	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.011	0.0015	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Carbon disulfide	BRL	mg/kg dry	0.010	0.00041	1	8260B	10/5/13 4:20	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.011	0.00046	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.00027	1	8260B	10/5/13 4:20	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00030	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chlorobenzene	BRL	mg/kg dry	0.0050	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chloroethane	BRL	mg/kg dry	0.010	0.0038	1	8260B	10/5/13 4:20	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.011	0.0042	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chloroform	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/13 4:20	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0055	0.00023	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chloromethane	BRL	mg/kg dry	0.010	0.0025	1	8260B	10/5/13 4:20	MSC	P3J0104
Chloromethane	BRL	mg/kg dry	0.011	0.0028	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00040	1	8260B	10/5/13 4:20	MSC	P3J0104
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00044	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00025	1	8260B	10/5/13 4:20	MSC	P3J0104
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00027	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	10/5/13 4:20	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Dibromomethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	10/5/13 4:20	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Dichlorodifluoromethane	BRL	mg/kg dry	0.010	0.00053	1	8260B	10/5/13 4:20	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.011	0.00059	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Hexachlorobutadiene	BRL	mg/kg dry	0.015	0.00064	1	8260B	10/5/13 4:20	MSC	P3J0104
Hexachlorobutadiene	BRL	mg/kg dry	0.016	0.00071	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/13 4:20	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00023	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.010	0.00025	1	8260B	10/5/13 4:20	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.011	0.00027	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00064	1	8260B	10/5/13 4:20	MSC	P3J0104
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00070	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.0010	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.0011	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.020	0.0018	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.022	0.0020	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.010	0.0013	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.011	0.0014	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methylene Chloride	BRL	mg/kg dry	0.010	0.00036	1	8260B	10/5/13 4:20	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.011	0.00040	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0050	0.00038	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0055	0.00042	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Naphthalene	BRL	mg/kg dry	0.0050	0.00037	1	8260B	10/5/13 4:20	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0055	0.00040	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
n-Butylbenzene	BRL	mg/kg dry	0.015	0.00022	1	8260B	10/5/13 4:20	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.016	0.00024	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
n-Propylbenzene	BRL	mg/kg dry	0.010	0.00028	1	8260B	10/5/13 4:20	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.011	0.00031	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
o-Xylene	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
o-Xylene	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
sec-Butylbenzene	BRL	mg/kg dry	0.015	0.00020	1	8260B	10/5/13 4:20	MSC	P3J0104
sec-Butylbenzene	BRL	mg/kg dry	0.016	0.00022	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Styrene	BRL	mg/kg dry	0.0050	0.00022	1	8260B	10/5/13 4:20	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0055	0.00024	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
tert-Butylbenzene	BRL	mg/kg dry	0.020	0.00026	1	8260B	10/5/13 4:20	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.022	0.00028	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Tetrachloroethylene	**0.11**	**mg/kg dry**	**0.010**	**0.00035**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Tetrachloroethylene	**0.17**	**mg/kg dry**	**0.011**	**0.00038**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
Toluene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/13 4:20	MSC	P3J0104
Toluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00058	1	8260B	10/5/13 4:20	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00063	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/13 4:20	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Trichloroethylene	**0.0049 J**	**mg/kg dry**	**0.0050**	**0.00046**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
Trichloroethylene	**0.0070**	**mg/kg dry**	**0.0055**	**0.00051**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.00040	1	8260B	10/5/13 4:20	MSC	P3J0104
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00045	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Vinyl acetate	BRL	mg/kg dry	0.010	0.0014	1	8260B	10/5/13 4:20	MSC	P3J0104
Vinyl acetate	BRL	mg/kg dry	0.011	0.0016	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Vinyl chloride	BRL	mg/kg dry	0.010	0.00065	1	8260B	10/5/13 4:20	MSC	P3J0104
Vinyl chloride	BRL	mg/kg dry	0.011	0.00071	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Xylenes, total	BRL	mg/kg dry	0.015	0.00093	1	8260B	10/5/13 4:20	MSC	P3J0104

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
4-Bromofluorobenzene	*101 %*	*70-130*
Dibromofluoromethane	*102 %*	*84-123*
Dibromofluoromethane	*93 %*	*84-123*
Toluene-d8	*102 %*	*76-129*
Toluene-d8	*125 %*	*76-129*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-907
Prism Sample ID: 3090541-03
Prism Work Order: 3090541
Time Collected: 09/27/13 09:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**82.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00031	1	8260B	10/5/13 4:44	MSC	P3J0104
1,1,1-Trichloroethane	**0.0072**	**mg/kg dry**	**0.0052**	**0.00017**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00086	1	8260B	10/5/13 4:44	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00044	1	8260B	10/5/13 4:44	MSC	P3J0104
1,1-Dichloroethane	**0.0027 J**	**mg/kg dry**	**0.0052**	**0.00044**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,1-Dichloroethylene	**0.050**	**mg/kg dry**	**0.0052**	**0.00032**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00055	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00039	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00079	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00031	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.010	0.0010	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0052	0.0016	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00060	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dichlorobenzene	**0.0088 J**	**mg/kg dry**	**0.010**	**0.00024**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00084	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.010	0.00025	1	8260B	10/5/13 4:44	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.010	0.000072	1	8260B	10/5/13 4:44	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00056	1	8260B	10/5/13 4:44	MSC	P3J0104
1,4-Dichlorobenzene	BRL	mg/kg dry	0.010	0.00038	1	8260B	10/5/13 4:44	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.010	0.0029	1	8260B	10/5/13 4:44	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.010	0.00032	1	8260B	10/5/13 4:44	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.010	0.00024	1	8260B	10/5/13 4:44	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.016	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
Acetone	**0.10**	**mg/kg dry**	**0.021**	**0.0028**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
Acrolein	BRL	mg/kg dry	0.10	0.0032	1	8260B	10/5/13 4:44	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.10	0.0026	1	8260B	10/5/13 4:44	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0031	0.00032	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0052	0.00022	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00076	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00024	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0052	0.00092	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.010	0.0015	1	8260B	10/5/13 4:44	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.010	0.00043	1	8260B	10/5/13 4:44	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00028	1	8260B	10/5/13 4:44	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	8260B	10/5/13 4:44	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.010	0.0040	1	8260B	10/5/13 4:44	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0052	0.00022	1	8260B	10/5/13 4:44	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-907
Prism Sample ID: 3090541-03
Prism Work Order: 3090541
Time Collected: 09/27/13 09:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	0.010	0.0026	1	8260B	10/5/13 4:44	MSC	P3J0104
cis-1,2-Dichloroethylene	**0.0047 J**	**mg/kg dry**	**0.0052**	**0.00042**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00026	1	8260B	10/5/13 4:44	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	10/5/13 4:44	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	10/5/13 4:44	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.010	0.00056	1	8260B	10/5/13 4:44	MSC	P3J0104
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	10/5/13 4:44	MSC	P3J0104
Hexachlorobutadiene	BRL	mg/kg dry	0.016	0.00067	1	8260B	10/5/13 4:44	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00022	1	8260B	10/5/13 4:44	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.010	0.00026	1	8260B	10/5/13 4:44	MSC	P3J0104
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00067	1	8260B	10/5/13 4:44	MSC	P3J0104
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.0011	1	8260B	10/5/13 4:44	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	**0.0021 J**	**mg/kg dry**	**0.021**	**0.0019**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.010	0.0014	1	8260B	10/5/13 4:44	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.010	0.00038	1	8260B	10/5/13 4:44	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0052	0.00040	1	8260B	10/5/13 4:44	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0052	0.00038	1	8260B	10/5/13 4:44	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.016	0.00023	1	8260B	10/5/13 4:44	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.010	0.00030	1	8260B	10/5/13 4:44	MSC	P3J0104
o-Xylene	BRL	mg/kg dry	0.0052	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
sec-Butylbenzene	BRL	mg/kg dry	0.016	0.00021	1	8260B	10/5/13 4:44	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0052	0.00023	1	8260B	10/5/13 4:44	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.021	0.00027	1	8260B	10/5/13 4:44	MSC	P3J0104
Tetrachloroethylene	See 8260ML	mg/kg dry	0.010	0.00036	1	8260B	10/5/13 4:44	MSC	P3J0104
Toluene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	10/5/13 4:44	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00060	1	8260B	10/5/13 4:44	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	10/5/13 4:44	MSC	P3J0104
Trichloroethylene	**0.022**	**mg/kg dry**	**0.0052**	**0.00048**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00042	1	8260B	10/5/13 4:44	MSC	P3J0104
Vinyl acetate	BRL	mg/kg dry	0.010	0.0015	1	8260B	10/5/13 4:44	MSC	P3J0104
Vinyl chloride	BRL	mg/kg dry	0.010	0.00067	1	8260B	10/5/13 4:44	MSC	P3J0104
Xylenes, total	BRL	mg/kg dry	0.016	0.00098	1	8260B	10/5/13 4:44	MSC	P3J0104

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*102 %*	*84-123*
Toluene-d8	*98 %*	*76-129*

Volatile Organic Compounds by GC/MS (Medium Level)

Tetrachloroethylene	**0.87**	**mg/kg dry**	**0.21**	**0.064**	**50**	**8260B**	**10/7/13 15:36**	**MSC**	**P3J0142**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*70-130*
Dibromofluoromethane	*96 %*	*70-130*
Toluene-d8	*104 %*	*70-130*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: IDW-Decon-1
Prism Sample ID: 3090541-04
Prism Work Order: 3090541
Time Collected: 09/27/13 10:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1,1-Trichloroethane	**1.2**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1-Dichloroethylene	**0.79**	**ug/L**	**0.50**	**0.078**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	10/2/13 12:19	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	10/2/13 12:19	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	10/2/13 12:19	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	10/2/13 12:19	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	10/2/13 12:19	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	10/2/13 12:19	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	10/2/13 12:19	VHL	P3J0060
Acetone	**6.6**	**ug/L**	**5.0**	**0.62**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
Acrolein	BRL	ug/L	20	1.1	1	8260B	10/2/13 12:19	VHL	P3J0060
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	10/2/13 12:19	VHL	P3J0060
Benzene	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	10/2/13 12:19	VHL	P3J0060
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	10/2/13 12:19	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:19	VHL	P3J0060
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:19	VHL	P3J0060
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	10/2/13 12:19	VHL	P3J0060
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:19	VHL	P3J0060
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	10/2/13 12:19	VHL	P3J0060

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: IDW-Decon-1
Prism Sample ID: 3090541-04
Prism Work Order: 3090541
Time Collected: 09/27/13 10:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	10/2/13 12:19	VHL	P3J0060
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	10/2/13 12:19	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	10/2/13 12:19	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:19	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:19	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	10/2/13 12:19	VHL	P3J0060
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	10/2/13 12:19	VHL	P3J0060
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	10/2/13 12:19	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	10/2/13 12:19	VHL	P3J0060
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	10/2/13 12:19	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	10/2/13 12:19	VHL	P3J0060
Styrene	BRL	ug/L	0.50	0.047	1	8260B	10/2/13 12:19	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	10/2/13 12:19	VHL	P3J0060
Tetrachloroethylene	**22**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	10/2/13 12:19	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:19	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:19	VHL	P3J0060
Trichloroethylene	**0.86**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	10/2/13 12:19	VHL	P3J0060
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	10/2/13 12:19	VHL	P3J0060
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	10/2/13 12:19	VHL	P3J0060
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*95 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: IDW-Develop-1
Prism Sample ID: 3090541-05
Prism Work Order: 3090541
Time Collected: 09/27/13 10:15
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	10	2.9	20	8260B	10/2/13 13:10	VHL	P3J0060
1,1,1-Trichloroethane	**210**	**ug/L**	**10**	**1.3**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
1,1,2,2-Tetrachloroethane	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	10	3.3	20	8260B	10/2/13 13:10	VHL	P3J0060
1,1-Dichloroethane	**11**	**ug/L**	**10**	**1.9**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
1,1-Dichloroethylene	**70**	**ug/L**	**10**	**1.6**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
1,1-Dichloropropylene	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	40	4.0	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	20	1.6	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	20	2.0	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	10	0.95	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	40	12	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	10	2.7	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	10	1.5	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	10	2.8	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	10	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	10	1.1	20	8260B	10/2/13 13:10	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	10	1.5	20	8260B	10/2/13 13:10	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	10	2.2	20	8260B	10/2/13 13:10	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	40	2.3	20	8260B	10/2/13 13:10	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	40	4.5	20	8260B	10/2/13 13:10	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	10	0.76	20	8260B	10/2/13 13:10	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	10	1.1	20	8260B	10/2/13 13:10	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	10	1.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Acetone	BRL	ug/L	100	12	20	8260B	10/2/13 13:10	VHL	P3J0060
Acrolein	BRL	ug/L	400	22	20	8260B	10/2/13 13:10	VHL	P3J0060
Acrylonitrile	BRL	ug/L	400	17	20	8260B	10/2/13 13:10	VHL	P3J0060
Benzene	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromobenzene	BRL	ug/L	10	1.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromochloromethane	BRL	ug/L	10	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromoform	BRL	ug/L	20	5.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromomethane	BRL	ug/L	20	9.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Carbon disulfide	BRL	ug/L	100	28	20	8260B	10/2/13 13:10	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	10	2.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Chlorobenzene	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
Chloroethane	BRL	ug/L	10	2.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Chloroform	BRL	ug/L	10	1.8	20	8260B	10/2/13 13:10	VHL	P3J0060
Chloromethane	BRL	ug/L	10	2.2	20	8260B	10/2/13 13:10	VHL	P3J0060
cis-1,2-Dichloroethylene	**15**	**ug/L**	**10**	**1.5**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
cis-1,3-Dichloropropylene	BRL	ug/L	10	2.1	20	8260B	10/2/13 13:10	VHL	P3J0060

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: IDW-Develop-1
Prism Sample ID: 3090541-05
Prism Work Order: 3090541
Time Collected: 09/27/13 10:15
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	10	6.0	20	8260B	10/2/13 13:10	VHL	P3J0060
Dibromomethane	BRL	ug/L	10	2.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	20	2.1	20	8260B	10/2/13 13:10	VHL	P3J0060
Ethylbenzene	BRL	ug/L	10	1.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	40	7.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	10	0.87	20	8260B	10/2/13 13:10	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	20	1.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	100	3.8	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	100	18	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	100	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060
Methylene Chloride	BRL	ug/L	20	8.9	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Naphthalene	BRL	ug/L	20	2.0	20	8260B	10/2/13 13:10	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	20	2.3	20	8260B	10/2/13 13:10	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
o-Xylene	BRL	ug/L	10	0.92	20	8260B	10/2/13 13:10	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	10	1.7	20	8260B	10/2/13 13:10	VHL	P3J0060
Styrene	BRL	ug/L	10	0.94	20	8260B	10/2/13 13:10	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	10	1.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Tetrachloroethylene	**1500**	**ug/L**	**10**	**1.4**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
Toluene	BRL	ug/L	10	0.85	20	8260B	10/2/13 13:10	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	10	2.3	20	8260B	10/2/13 13:10	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	10	0.87	20	8260B	10/2/13 13:10	VHL	P3J0060
Trichloroethylene	**70**	**ug/L**	**10**	**1.1**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
Trichlorofluoromethane	BRL	ug/L	10	1.8	20	8260B	10/2/13 13:10	VHL	P3J0060
Vinyl acetate	BRL	ug/L	40	2.0	20	8260B	10/2/13 13:10	VHL	P3J0060
Vinyl chloride	BRL	ug/L	10	3.1	20	8260B	10/2/13 13:10	VHL	P3J0060
Xylenes, total	BRL	ug/L	60	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Drum-1
Prism Sample ID: 3090541-06
Prism Work Order: 3090541
Time Collected: 09/27/13 10:20
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**77.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0059	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0059	0.00019	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0059	0.00098	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0059	0.00050	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1-Dichloroethane	BRL	mg/kg dry	0.0059	0.00050	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1-Dichloroethylene	BRL	mg/kg dry	0.0059	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00062	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.012	0.00044	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0059	0.00090	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.012	0.00035	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.012	0.0012	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0059	0.0018	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0059	0.00068	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dichlorobenzene	BRL	mg/kg dry	0.012	0.00027	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dichloroethane	BRL	mg/kg dry	0.0059	0.00096	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0059	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.012	0.00028	1	8260B	10/5/13 5:07	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.012	0.000082	1	8260B	10/5/13 5:07	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0059	0.00064	1	8260B	10/5/13 5:07	MSC	P3J0104
1,4-Dichlorobenzene	BRL	mg/kg dry	0.012	0.00043	1	8260B	10/5/13 5:07	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0059	0.00037	1	8260B	10/5/13 5:07	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.012	0.0033	1	8260B	10/5/13 5:07	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.012	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.012	0.00028	1	8260B	10/5/13 5:07	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.018	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
Acetone	BRL	mg/kg dry	0.024	0.0032	1	8260B	10/5/13 5:07	MSC	P3J0104
Acrolein	BRL	mg/kg dry	0.12	0.0036	1	8260B	10/5/13 5:07	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.12	0.0029	1	8260B	10/5/13 5:07	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0036	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0059	0.00025	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0059	0.00086	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0059	0.00027	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0059	0.0010	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.012	0.0017	1	8260B	10/5/13 5:07	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.012	0.00049	1	8260B	10/5/13 5:07	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0059	0.00032	1	8260B	10/5/13 5:07	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0059	0.00028	1	8260B	10/5/13 5:07	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.012	0.0045	1	8260B	10/5/13 5:07	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0059	0.00025	1	8260B	10/5/13 5:07	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Drum-1
Prism Sample ID: 3090541-06
Prism Work Order: 3090541
Time Collected: 09/27/13 10:20
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	0.012	0.0030	1	8260B	10/5/13 5:07	MSC	P3J0104
cis-1,2-Dichloroethylene	**0.090**	**mg/kg dry**	**0.0059**	**0.00048**	**1**	**8260B**	**10/5/13 5:07**	**MSC**	**P3J0104**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00029	1	8260B	10/5/13 5:07	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0059	0.00040	1	8260B	10/5/13 5:07	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0059	0.00040	1	8260B	10/5/13 5:07	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.012	0.00064	1	8260B	10/5/13 5:07	MSC	P3J0104
Ethylbenzene	BRL	mg/kg dry	0.0059	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
Hexachlorobutadiene	BRL	mg/kg dry	0.018	0.00076	1	8260B	10/5/13 5:07	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0059	0.00025	1	8260B	10/5/13 5:07	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.012	0.00030	1	8260B	10/5/13 5:07	MSC	P3J0104
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00076	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.059	0.0012	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.024	0.0021	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.012	0.0016	1	8260B	10/5/13 5:07	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.012	0.00043	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0059	0.00046	1	8260B	10/5/13 5:07	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0059	0.00044	1	8260B	10/5/13 5:07	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.018	0.00026	1	8260B	10/5/13 5:07	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.012	0.00034	1	8260B	10/5/13 5:07	MSC	P3J0104
o-Xylene	BRL	mg/kg dry	0.0059	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
sec-Butylbenzene	BRL	mg/kg dry	0.018	0.00024	1	8260B	10/5/13 5:07	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0059	0.00026	1	8260B	10/5/13 5:07	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.024	0.00031	1	8260B	10/5/13 5:07	MSC	P3J0104
Tetrachloroethylene	**0.0024 J**	**mg/kg dry**	**0.012**	**0.00041**	**1**	**8260B**	**10/5/13 5:07**	**MSC**	**P3J0104**
Toluene	BRL	mg/kg dry	0.0059	0.00035	1	8260B	10/5/13 5:07	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0059	0.00069	1	8260B	10/5/13 5:07	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00029	1	8260B	10/5/13 5:07	MSC	P3J0104
Trichloroethylene	BRL	mg/kg dry	0.0059	0.00055	1	8260B	10/5/13 5:07	MSC	P3J0104
Trichlorofluoromethane	BRL	mg/kg dry	0.0059	0.00048	1	8260B	10/5/13 5:07	MSC	P3J0104
Vinyl acetate	BRL	mg/kg dry	0.012	0.0017	1	8260B	10/5/13 5:07	MSC	P3J0104
Vinyl chloride	BRL	mg/kg dry	0.012	0.00077	1	8260B	10/5/13 5:07	MSC	P3J0104
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	10/5/13 5:07	MSC	P3J0104

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*70-130*
Dibromofluoromethane	*109 %*	*84-123*
Toluene-d8	*102 %*	*76-129*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: IDW-Purge
Prism Sample ID: 3090541-07
Prism Work Order: 3090541
Time Collected: 09/27/13 10:30
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1,1-Trichloroethane	**0.75**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1-Dichloroethylene	**4.2**	**ug/L**	**0.50**	**0.078**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	10/2/13 12:45	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	10/2/13 12:45	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	10/2/13 12:45	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	10/2/13 12:45	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	10/2/13 12:45	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	10/2/13 12:45	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	10/2/13 12:45	VHL	P3J0060
Acetone	BRL	ug/L	5.0	0.62	1	8260B	10/2/13 12:45	VHL	P3J0060
Acrolein	BRL	ug/L	20	1.1	1	8260B	10/2/13 12:45	VHL	P3J0060
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	10/2/13 12:45	VHL	P3J0060
Benzene	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	10/2/13 12:45	VHL	P3J0060
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	10/2/13 12:45	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:45	VHL	P3J0060
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:45	VHL	P3J0060
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	10/2/13 12:45	VHL	P3J0060
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:45	VHL	P3J0060
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	10/2/13 12:45	VHL	P3J0060

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: IDW-Purge
Prism Sample ID: 3090541-07
Prism Work Order: 3090541
Time Collected: 09/27/13 10:30
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	10/2/13 12:45	VHL	P3J0060
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	10/2/13 12:45	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	10/2/13 12:45	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:45	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:45	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	10/2/13 12:45	VHL	P3J0060
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	10/2/13 12:45	VHL	P3J0060
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	10/2/13 12:45	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	10/2/13 12:45	VHL	P3J0060
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	10/2/13 12:45	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	10/2/13 12:45	VHL	P3J0060
Styrene	BRL	ug/L	0.50	0.047	1	8260B	10/2/13 12:45	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	10/2/13 12:45	VHL	P3J0060
Tetrachloroethylene	**60**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	10/2/13 12:45	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:45	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:45	VHL	P3J0060
Trichloroethylene	**2.9**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	10/2/13 12:45	VHL	P3J0060
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	10/2/13 12:45	VHL	P3J0060
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	10/2/13 12:45	VHL	P3J0060
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 3090541-08
Prism Work Order: 3090541
Time Collected: 09/27/13 00:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	10/2/13 13:36	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	10/2/13 13:36	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	10/2/13 13:36	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	10/2/13 13:36	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	10/2/13 13:36	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	10/2/13 13:36	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	10/2/13 13:36	VHL	P3J0060
Acetone	BRL	ug/L	5.0	0.62	1	8260B	10/2/13 13:36	VHL	P3J0060
Acrolein	BRL	ug/L	20	1.1	1	8260B	10/2/13 13:36	VHL	P3J0060
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	10/2/13 13:36	VHL	P3J0060
Benzene	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	10/2/13 13:36	VHL	P3J0060
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	10/2/13 13:36	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 13:36	VHL	P3J0060
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 13:36	VHL	P3J0060
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	10/2/13 13:36	VHL	P3J0060
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 13:36	VHL	P3J0060
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	10/2/13 13:36	VHL	P3J0060

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 3090541-08
Prism Work Order: 3090541
Time Collected: 09/27/13 00:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	10/2/13 13:36	VHL	P3J0060
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	10/2/13 13:36	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	10/2/13 13:36	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 13:36	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 13:36	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	10/2/13 13:36	VHL	P3J0060
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	10/2/13 13:36	VHL	P3J0060
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	10/2/13 13:36	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	10/2/13 13:36	VHL	P3J0060
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	10/2/13 13:36	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	10/2/13 13:36	VHL	P3J0060
Styrene	BRL	ug/L	0.50	0.047	1	8260B	10/2/13 13:36	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	10/2/13 13:36	VHL	P3J0060
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	10/2/13 13:36	VHL	P3J0060
Toluene	BRL	ug/L	0.50	0.042	1	8260B	10/2/13 13:36	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 13:36	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 13:36	VHL	P3J0060
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	10/2/13 13:36	VHL	P3J0060
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	10/2/13 13:36	VHL	P3J0060
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	10/2/13 13:36	VHL	P3J0060
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	10/2/13 13:36	VHL	P3J0060
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0060 - 5030B										
Blank (P3J0060-BLK1)				Prepared & Analyzed: 10/02/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0060 - 5030B										
Blank (P3J0060-BLK1)				Prepared & Analyzed: 10/02/13						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.2*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*52.6*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Toluene-d8	*50.6*		*ug/L*	*50.00*		*101*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0060 - 5030B										
LCS (P3J0060-BS1)				Prepared & Analyzed: 10/02/13						
1,1-Dichloroethylene	20.9	0.50	ug/L	20.00		104	70-154			
Benzene	20.4	0.50	ug/L	20.00		102	77-128			
Chlorobenzene	19.9	0.50	ug/L	20.00		100	78-119			
Toluene	20.4	0.50	ug/L	20.00		102	76-131			
Trichloroethylene	20.2	0.50	ug/L	20.00		101	77-133			
Xylenes, total	62.3	3.0	ug/L	60.00		104	77-133			
Surrogate: 4-Bromofluorobenzene	*48.5*		*ug/L*	*50.00*		*97*	*80-124*			
Surrogate: Dibromofluoromethane	*52.0*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*50.4*		*ug/L*	*50.00*		*101*	*77-123*			
LCS Dup (P3J0060-BSD1)				Prepared & Analyzed: 10/02/13						
1,1-Dichloroethylene	20.3	0.50	ug/L	20.00		102	70-154	3	20	
Benzene	20.1	0.50	ug/L	20.00		101	77-128	1	20	
Chlorobenzene	19.7	0.50	ug/L	20.00		99	78-119	1	20	
Toluene	19.7	0.50	ug/L	20.00		98	76-131	3	20	
Trichloroethylene	20.2	0.50	ug/L	20.00		101	77-133	0.5	20	
Xylenes, total	61.6	3.0	ug/L	60.00		103	77-133	1	20	
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.00*		*96*	*80-124*			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*50.3*		*ug/L*	*50.00*		*101*	*77-123*			
Batch P3J0104 - 5035										
Blank (P3J0104-BLK1)				Prepared: 10/04/13 Analyzed: 10/05/13						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,2-Dibromo-3-chloropropane	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.010	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	BRL	0.010	mg/kg wet							
2-Chlorotoluene	BRL	0.010	mg/kg wet							

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Solutions-IES, Inc.
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Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0104 - 5035										
Blank (P3J0104-BLK1)				Prepared: 10/04/13 Analyzed: 10/05/13						
4-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Isopropyltoluene	BRL	0.015	mg/kg wet							
Acetone	BRL	0.020	mg/kg wet							
Acrolein	BRL	0.10	mg/kg wet							
Acrylonitrile	BRL	0.10	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon disulfide	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.010	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dibromomethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.010	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Hexachlorobutadiene	BRL	0.015	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.010	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.020	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.010	mg/kg wet							
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.0050	mg/kg wet							
Naphthalene	BRL	0.0050	mg/kg wet							
n-Butylbenzene	BRL	0.015	mg/kg wet							
n-Propylbenzene	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.015	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.020	mg/kg wet							
Tetrachloroethylene	BRL	0.010	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.010	mg/kg wet							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0104 - 5035										
Blank (P3J0104-BLK1)				Prepared: 10/04/13 Analyzed: 10/05/13						
Vinyl chloride	BRL	0.010	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0538*		*mg/kg wet*	*0.05000*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0490*		*mg/kg wet*	*0.05000*		*98*	*84-123*			
Surrogate: Toluene-d8	*0.0517*		*mg/kg wet*	*0.05000*		*103*	*76-129*			
LCS (P3J0104-BS1)				Prepared & Analyzed: 10/04/13						
1,1-Dichloroethylene	0.0404	0.0050	mg/kg wet	0.05000		81	67-149			
Benzene	0.0392	0.0030	mg/kg wet	0.05000		78	74-127			
Chlorobenzene	0.0444	0.0050	mg/kg wet	0.05000		89	74-118			
Toluene	0.0412	0.0050	mg/kg wet	0.05000		82	71-129			
Trichloroethylene	0.0412	0.0050	mg/kg wet	0.05000		82	75-133			
Surrogate: 4-Bromofluorobenzene	*0.0522*		*mg/kg wet*	*0.05000*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		*mg/kg wet*	*0.05000*		*97*	*84-123*			
Surrogate: Toluene-d8	*0.0483*		*mg/kg wet*	*0.05000*		*97*	*76-129*			
LCS Dup (P3J0104-BSD1)				Prepared: 10/04/13 Analyzed: 10/05/13						
1,1-Dichloroethylene	0.0517	0.0050	mg/kg wet	0.05000		103	67-149	25	20	D
Benzene	0.0442	0.0030	mg/kg wet	0.05000		88	74-127	12	20	
Chlorobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	74-118	11	20	
Toluene	0.0470	0.0050	mg/kg wet	0.05000		94	71-129	13	20	
Trichloroethylene	0.0482	0.0050	mg/kg wet	0.05000		96	75-133	16	20	
Surrogate: 4-Bromofluorobenzene	*0.0504*		*mg/kg wet*	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0465*		*mg/kg wet*	*0.05000*		*93*	*84-123*			
Surrogate: Toluene-d8	*0.0489*		*mg/kg wet*	*0.05000*		*98*	*76-129*			
Batch P3J0169 - 5030B Soil										
Blank (P3J0169-BLK1)				Prepared & Analyzed: 10/08/13						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,2-Dibromo-3-chloropropane	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0169 - 5030B Soil										
Blank (P3J0169-BLK1)				Prepared & Analyzed: 10/08/13						
1,4-Dichlorobenzene	BRL	0.010	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	BRL	0.010	mg/kg wet							
2-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Isopropyltoluene	BRL	0.015	mg/kg wet							
Acetone	0.00518	0.020	mg/kg wet							J
Acrolein	BRL	0.10	mg/kg wet							
Acrylonitrile	BRL	0.10	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon disulfide	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.010	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dibromomethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.010	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Hexachlorobutadiene	BRL	0.015	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.010	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.020	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.010	mg/kg wet							
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.0050	mg/kg wet							
Naphthalene	BRL	0.0050	mg/kg wet							
n-Butylbenzene	BRL	0.015	mg/kg wet							
n-Propylbenzene	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.015	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.020	mg/kg wet							
Tetrachloroethylene	BRL	0.010	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0169 - 5030B Soil										
Blank (P3J0169-BLK1)				Prepared & Analyzed: 10/08/13						
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.010	mg/kg wet							
Vinyl chloride	BRL	0.010	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0527*		*mg/kg wet*	*0.05000*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0526*		*mg/kg wet*	*0.05000*		*105*	*84-123*			
Surrogate: Toluene-d8	*0.0508*		*mg/kg wet*	*0.05000*		*102*	*76-129*			
LCS (P3J0169-BS1)				Prepared & Analyzed: 10/08/13						
1,1-Dichloroethylene	0.0620	0.0050	mg/kg wet	0.05000		124	67-149			
Benzene	0.0462	0.0030	mg/kg wet	0.05000		92	74-127			
Chlorobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	74-118			
Toluene	0.0487	0.0050	mg/kg wet	0.05000		97	71-129			
Trichloroethylene	0.0505	0.0050	mg/kg wet	0.05000		101	75-133			
Surrogate: 4-Bromofluorobenzene	*0.0509*		*mg/kg wet*	*0.05000*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0466*		*mg/kg wet*	*0.05000*		*93*	*84-123*			
Surrogate: Toluene-d8	*0.0490*		*mg/kg wet*	*0.05000*		*98*	*76-129*			
LCS Dup (P3J0169-BSD1)				Prepared & Analyzed: 10/08/13						
1,1-Dichloroethylene	0.0616	0.0050	mg/kg wet	0.05000		123	67-149	0.7	20	
Benzene	0.0461	0.0030	mg/kg wet	0.05000		92	74-127	0.2	20	
Chlorobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	74-118	2	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	71-129	0.8	20	
Trichloroethylene	0.0500	0.0050	mg/kg wet	0.05000		100	75-133	1	20	
Surrogate: 4-Bromofluorobenzene	*0.0522*		*mg/kg wet*	*0.05000*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0460*		*mg/kg wet*	*0.05000*		*92*	*84-123*			
Surrogate: Toluene-d8	*0.0511*		*mg/kg wet*	*0.05000*		*102*	*76-129*			

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0142 - 5035										
Blank (P3J0142-BLK1)				Prepared & Analyzed: 10/07/13						
Tetrachloroethylene	BRL	0.25	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*3.35*		*mg/kg wet*	*3.500*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*3.26*		*mg/kg wet*	*3.500*		*93*	*70-130*			
Surrogate: Toluene-d8	*3.25*		*mg/kg wet*	*3.500*		*93*	*70-130*			
LCS (P3J0142-BS1)				Prepared & Analyzed: 10/07/13						
Tetrachloroethylene	1.02	0.25	mg/kg wet	1.000		102	71-124			
Surrogate: 4-Bromofluorobenzene	*3.47*		*mg/kg wet*	*3.500*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*3.18*		*mg/kg wet*	*3.500*		*91*	*70-130*			
Surrogate: Toluene-d8	*3.38*		*mg/kg wet*	*3.500*		*96*	*70-130*			
LCS Dup (P3J0142-BSD1)				Prepared & Analyzed: 10/07/13						
Tetrachloroethylene	0.842	0.25	mg/kg wet	1.000		84	71-124	19	20	
Surrogate: 4-Bromofluorobenzene	*3.47*		*mg/kg wet*	*3.500*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*3.10*		*mg/kg wet*	*3.500*		*89*	*70-130*			
Surrogate: Toluene-d8	*3.18*		*mg/kg wet*	*3.500*		*91*	*70-130*			

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0055 - NO PREP										
Blank (P3J0055-BLK1)				Prepared & Analyzed: 10/02/13						
% Solids	99.9	0.100	% by Weight							
Duplicate (P3J0055-DUP1)		**Source: 3090541-01**		Prepared & Analyzed: 10/02/13						
% Solids	79.2	0.100	% by Weight		79.9			0.9	20	

Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
3090541-04	P3J0060	10 mL	10 mL	10/02/13 8:19
3090541-05	P3J0060	10 mL	10 mL	10/02/13 8:19
3090541-07	P3J0060	10 mL	10 mL	10/02/13 8:19
3090541-08	P3J0060	10 mL	10 mL	10/02/13 8:19

Prep Method: 5030B Soil

Lab Number	Batch	Initial	Final	Date/Time
3090541-02	P3J0169	5.84 g	5 mL	10/08/13 17:05

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3090541-01	P3J0104	7.76 g	5 mL	10/04/13 16:05
3090541-02	P3J0104	6.42 g	5 mL	10/04/13 16:05
3090541-03	P3J0104	5.83 g	5 mL	10/04/13 16:05
3090541-06	P3J0104	5.47 g	5 mL	10/04/13 16:05

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3090541-01	P3J0142	6.25 g	5 mL	10/07/13 11:26
3090541-01	P3J0142	6.25 g	5 mL	10/07/13 11:26
3090541-03	P3J0142	7.27 g	5 mL	10/07/13 11:26

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Client Company Name: Solutions-IES
Report To/Contact Name: Jody overmyer
Reporting Address: 1101 Nowell Rd
Raleigh NC 27607
Phone: 919 873 1000 Fax (Yes) (No):
Email Address: jovermyer@solutions-ies.com
EDD Type: PDF___ Excel___ Other___
Site Location Name: Eaton Selma
Site Location Physical Address:

Project Name: EATON SELMA
Short Hold Analysis: (Yes) (NO) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Emily Davis
Address:

Purchase Order No./Billing Reference 2013.0014. EATN
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☑ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR-9 Observed: 4.4 °C / Corr: 4.6 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ DoD___ FL___ NC___ SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOC 8260	TCLP VOCs Stab					REMARKS	PRISM LAB ID NO.
1DW-soil-904	9/27/2013	930	soil					X	X						Ø1
1DW-soil-910		945							X						Ø2
1DW-soil-907		900							X						Ø3
1DW-Decon-1		1000	water												Ø4
1DW-Develop-1		1015													Ø5
1DW-Drum-1		1020	soil						X						Ø6
1DW-purge		1030	water												Ø7
Trip Blank	—	—	DI												Ø8

ANALYSIS REQUESTED

Sampler's Signature [signature] Sampled By (Print Name) Samuel McIntyre Affiliation Solutions-IES

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	9/27/13	1150
Relinquished By: (Signature)	Received By: (Signature)	Date	
[signature]	[signature]	9-27-13	1250
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
[signature] 9.27.13 1520	[signature]	9.27.13	1520

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other

COC Group No. 3490541

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

APPENDIX E

IDW WASTE MANIFESTS

CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 61.02 tons of non-hazardous contaminated material received on 10/18/2013, 10/21/2013, 10/23/2013 and 10/29/2013 from:

Generator: Eaton Corporation

Originating at: 1100 East Preston Street
Selma, NC

EC Waste ID #: 091327

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Thomas W. Hammett

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 78718

GENERATOR INFORMATION

Generator: Eaton Corporation

Phone: 919-873-1060

Site Address: 1100 East Preston Street

City/State: Selma, NC 27576

Contact: Jody Overmyer

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 61440

Material: Soil

Empty Weight (lbs): 42400

Contaminant: Non Haz VOCs

Net Weight (lbs): 19040

Quantity: 9.52 (Tons) Drums Pails Sacs Yards Other: _____

box 907

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 204/319

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature]

Date: 10-21-13

FACILITY INFORMATION

Evo Project #: 091327

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature]

Date: 10-21-2013

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 78717

GENERATOR INFORMATION

Generator: **Eaton Corporation** Phone: **919-873-1060**

Site Address: **1100 East Preston Street**

City/State: **Selma, NC 27576** Contact: **Jody Overmyer**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 60240 Material: **Soil**

Empty Weight (lbs): 42400 Contaminant: **Non Haz VOCs**

Net Weight (lbs): 17840

Quantity 8.92 (Tons) Drums Pails Sacs Yards Other: box 951

TRANSPORTER INFORMATION

Transporter: **Evo Corporation** Phone: **336-725-5844**

Truck #: 204/319 Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 10-21-13

FACILITY INFORMATION

Evo Project #: **091327**

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 10-21-2013

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 78707

GENERATOR INFORMATION

Generator: **Eaton Corporation** Phone: **919-873-1060**

Site Address: **1100 East Preston Street**

City/State: **Selma, NC 27576** Contact: **Jody Overmyer**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 44,180 Material: **Soil**

Empty Weight (lbs): ~~24,480~~ 24,480 Contaminant: **Non Haz VOCs**

Net Weight (lbs): 19,700

Quantity 9.85 Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: **Evo Corporation** Phone: **336-725-5844**

Truck #: _____ Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Date: 10-18-13

FACILITY INFORMATION

Evo Project #: **091327**

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Date: 10-18-13

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 78709

GENERATOR INFORMATION

Generator: Eaton Corporation

Phone: 919-873-1060

Site Address: 1100 East Preston Street

City/State: Selma, NC 27576

Contact: Jody Overmyer

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 58120

Material: Soil

Empty Weight (lbs): 39260

Contaminant: Non Haz VOCs

Net Weight (lbs): 18860

Quantity: 9.43

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 208

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature:

Date: 10/18/13

FACILITY INFORMATION

Evo Project #: 091327

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature:

Date: 10-18-13

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 78708

GENERATOR INFORMATION

Generator: Eaton Corporation

Phone: 919-873-1060

Site Address: 1100 East Preston Street

City/State: Selma, NC 27576

Contact: Jody Overmyer

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 48700

Material: Soil

Empty Weight (lbs): 42400

Contaminant: Non Haz VOCs

Net Weight (lbs): 6300

Quantity: 3.15 (Tons) Drums Pails Sacs Yards Other: _____

904

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 204/319

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature]

Date: 10-23-13

FACILITY INFORMATION

Evo Project #: 091327

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature]

Date: 10-23-13

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 78773

GENERATOR INFORMATION

Generator: **Eaton Corporation**

Phone: **919-873-1060**

Site Address: **1100 East Preston Street**

City/State: **Selma, NC 27576**

Contact: **Jody Overmyer**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 61500

Material: **Soil**

Empty Weight (lbs): 42400

Contaminant: **Non Haz VOCs**

Net Weight (lbs):

Quantity 9.55 (Tons) Drums Pails Sacs Yards Other:

bot 910

TRANSPORTER INFORMATION

Transporter: **Evo Corporation**

Phone: **336-725-5844**

Truck #: 204/319

Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature]

Date: 10-23-13

FACILITY INFORMATION

Evo Project #: **091327**

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature]

Date: 10/23/13

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 78772

GENERATOR INFORMATION

Generator: Eaton Corporation

Phone: 919-873-1060

Site Address: 1100 East Preston Street

City/State: Selma, NC 27576

Contact: Jody Overmyer

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 63600

Material: Soil

Empty Weight (lbs): 42400

Contaminant: Non Haz VOCs

Net Weight (lbs): 21200

Quantity: 10.60

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 204/319

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature]

Date: 10-29-13

FACILITY INFORMATION

Evo Project #: 091327

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature]

Date: 10-29-13

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 10-18-2013 091327

STEER AXLE	13060	lb
DRIVE AXLE	31120	lb
TRAILER AXLE	00	lb
*GROSS WEIGHT	44180	lb

1221
28588560 SCALE
502
LOCATION: PILOT TRAVEL CENTER
I 85 EXIT 152
MEBANE NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO — TRACTOR #: 102 — TRAILER #: STRAIGHT

FEE: $10.00 — WEIGHMASTER OR WEIGHER SIGNATURE: LISA HOFFMAN — FULL WEIGH TICKET # (IF REWEIGH):

WEIGH NUMBER 8560

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3046 03/13

SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

907 091327 204/319 JLW

DATE: 10-21-2013

STEER AXLE	11860	lb
DRIVE AXLE	20920	lb
TRAILER AXLE	28660	lb
*GROSS WEIGHT	61440	lb

1653
30204047 SCALE
468
LOCATION: WILCO TRAVEL PLAZA
I 85 EXIT 150
HAW RIVER NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

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LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO CORP — TRACTOR #: 204 — TRAILER #: 319

FEE: $2.00 — WEIGHMASTER OR WEIGHER SIGNATURE: JESS PALMER — FULL WEIGH TICKET # (IF REWEIGH): 302040

WEIGH NUMBER 4039

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

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SCALE

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WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

...TH the driver as an expert witness if we believe our scale was correct.

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1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
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*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 10-18-2013

STEER AXLE	10720	lb
DRIVE AXLE	19380	lb
TRAILER AXLE	28020	lb
*GROSS WEIGHT	58120	lb

1401
30204010 SCALE
468
LOCATION: WILCO TRAVEL PLAZA
I 85 EXIT 150
HAW RIVER NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

NORTH CAROLINA PUBLIC WEIGHMASTER
IMPRINT SEAL HERE (IF APPLICABLE)
LICENSE EXPIRES JUNE 30, 2014
TIERRA DAYE 38328
INVALID UNLESS SIGNED

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

#091327

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO — TRACTOR #: 208 — TRAILER #: 319

FEE: $10.00 — WEIGHMASTER OR WEIGHER SIGNATURE: TIERRA DAYE — FULL WEIGH TICKET # (IF REWEIGH):

WEIGH NUMBER 4010

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3046 03/13

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

box 951 091327 204/319 JLW

DATE: 10-21-2013

STEER AXLE	11500	lb
DRIVE AXLE	19900	lb
TRAILER AXLE	28840	lb
*GROSS WEIGHT	60240	lb

1035
30204038 SCALE
468
LOCATION: WILCO TRAVEL PLAZA
I 85 EXIT 150
HAW RIVER NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

NORTH CAROLINA PUBLIC WEIGHMASTER
IMPRINT SEAL HERE (IF APPLICABLE)
LICENSE EXPIRES JUNE 30, 2014
TIERRA DAYE 38328
INVALID UNLESS SIGNED

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LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO CORP — TRACTOR #: 204 — TRAILER #: 319

FEE: $10.00 — WEIGHMASTER OR WEIGHER SIGNATURE: TIERRA DAYE — FULL WEIGH TICKET # (IF REWEIGH):

WEIGH NUMBER 4039

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3046 03/13

30204162

TICKET NUMBER

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**

(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

CAT SCALE COLLECTOR CARD INSIDE!

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

Box 951 091327 204/319 J1m

DATE: 10-29-2013

STEER AXLE	11940 lb
DRIVE AXLE	21700 lb
TRAILER AXLE	29960 lb
*GROSS WEIGHT	63600 lb

1259

30204162 SCALE

LOCATION: 468 WILCO TRAVEL PLAZA I 85 EXIT 150 HAW RIVER NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

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NORTH CAROLINA PUBLIC WEIGHMASTER IMPRINT SEAL HERE (IF APPLICABLE) LICENSE EXPIRES JUNE 30, 2014 TIERRA DAYE 88328 INVALID UNLESS SIGNED

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO CORP TRACTOR # 204 TRAILER # 319

WEIGH NUMBER 4162

FEE $10.00 WEIGHMASTER OR WEIGHER SIGNATURE: TIERRA DAYE FULL WEIGH TICKET # (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3046 03/13

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believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
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www.catscale.com

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#904 091327 204/319 J1m

DATE: 10-23-2013

STEER AXLE	11200 lb
DRIVE AXLE	15440 lb
TRAILER AXLE	22060 lb
*GROSS WEIGHT	48700 lb

1034

3020407b SCALE

LOCATION: 468 WILCO TRAVEL PLAZA I 85 EXIT 150 HAW RIVER NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

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NORTH CAROLINA PUBLIC WEIGHMASTER IMPRINT SEAL HERE (IF APPLICABLE) LICENSE EXPIRES JUNE 30, 2014 TIERRA DAYE 88328 INVALID UNLESS SIGNED

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO CORP TRACTOR # 204 TRAILER # 319

WEIGH NUMBER 4074

FEE $10.00 WEIGHMASTER OR WEIGHER SIGNATURE: TIERRA DAYE FULL WEIGH TICKET # (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

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(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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box 910 204/319 J1m 091327

DATE: 10-23-2013

STEER AXLE	11560 lb
DRIVE AXLE	20500 lb
TRAILER AXLE	29440 lb
*GROSS WEIGHT	61500 lb

1621

3020408b SCALE

LOCATION: 468 WILCO TRAVEL PLAZA I 85 EXIT 150 HAW RIVER NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

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IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: EVO CORP TRACTOR # 204 TRAILER # 319

WEIGH NUMBER 4074

FEE $2.00 WEIGHMASTER OR WEIGHER SIGNATURE: JESS PALMER FULL WEIGH TICKET # (IF REWEIGH) 302040

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3046 03/13

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 16 drums of non-hazardous contaminated water received on 12/03/2013 from:

Generator: Eaton Corporation

Originating at: 1100 East Preston Street
Selma, NC

EC Waste ID #: 091327

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 79101

GENERATOR INFORMATION

Generator: Eaton Corporation

Phone: 919-873-1060

Site Address: 1100 East Preston Street

City/State: Selma, NC 27576

Contact: Jody Overmyer

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs):

Material: Water

Empty Weight (lbs):

Contaminant: Non Haz VOCs

Net Weight (lbs):

Quantity 16

Tons Drums Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #:

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Willie Dye

Date: 12-03-13

FACILITY INFORMATION

Evo Project #: 091327

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature:

Date: 12-3-13

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

APPENDIX F

PHOTO LOG

Appendix F –Photo Documentation

Photo 1 – Planned locations of injection wells in cleared brush north of former oil storage area (looking northwest)

Photo 2 – Communication lines marked near injection well locations along JCI north driveway (looking east)

Photo 3 – IW 35A/B relocation from edge of asphalt driveway (looking north).

Photo 4 – Track mounted drill rig getting into position over IW-2A/B (looking north)

Appendix F –Photo Documentation

Photo 5 – Drill rig drilling IW-2A/B borehole (looking west)

Photo 6 – IW-2A/B wells set in borehole (looking northwest)

Photo 7 – Split-spoon sample from a monitoring well borehole.

Photo 8 – Close up view of coarse sand from a monitoring well split-spoon sample.

Photo 9 – Driller developing IW-33A/B (looking southwest)

Photo 10 – Preparation for reinforced well pads for injection wells located in loading dock area.

Photo 11 – A completed well pad in the loading dock area.

Photo 12 – Completed well pads in the loading dock area

Photo 13 – IDW drums storing decontamination water used during drilling (looking west).

Photo 14 – Poly tank storing well drilling/development water (looking east).

Photo 15 – Baker tank being unloaded to store EOS XR for injection event (looking southwest).

Photo 16 – 1.25” HDPE pipe installation in injection wells.

Photo 17 – Completed installation in a nested injection well.

Photo 18 – Group 1 injection wells injection layout (looking northwest).

Photo 19 – 500 gallon conical mixing tank used to dilute EOS XR during the injection.

Photo 20 – SIES personnel monitoring totalizer readings during substrate injection.

\

Photo 21 – Substrate daylighting near IW-8A/B during injection (looking northwest).

APPENDIX G

FIELD NOTES

9/12/2013 N. Short

Eaton Selma IW/MW install

0900 Depart office, stop for ice + water

1000 Arrive on-site, Geologic exploration (GEX) onsite, Evo has already delivered 2 rolloff boxes. 2 drill rigs onsite, only 1 will be active for most of the day.
GEX moby rig / prepping equipment

1100 Set up Decon pit, mobe track rig to ~~IW-2~~ #2 location. Driller is Brian.
Rig is HSA Diedrich D-120.
→ IW-2A / IW-2B

1150 Begin drilling on IW-2A/2B

1150 Drilling on IW-2A / IW-2B complete, install well. Some difficulty installing well due to flowing sands observed. Formation sand enters hollow stem of auger causing well to rise. - set well @ 30' bgs (IW-2B). Flush natural sand out of auger w/ potable H_2O

9/16/2013 SW NS

IW + MW install

Eaton Selma ~~Started~~

1230 Heaving sands flow upward through augers. Sand in augers appear to stabilize @ approx 16' bgs. Called JLO to discuss. JLO does not want 5' screen, will ~~ap~~ pull augers & attempt to redrill

1245 Spoke w/ JLO & JCK about progress concerns. Will redrill IW-2A/2B agn, JLO will call back

1300 Drillers off-site

1345 GEX back on-site, pull remaining wood augers from borehole, put plug in bottom of deepest auger in an attempt to keep sand out

1415 Drilling complete, begin setting well. 5 bags GP#2 sand for deeper well (23-30')

Sand: 30-22'	Sand: 20.5-9
Bentonite: 22-21'	Bentonite: 9-7
Sand: 21-~20.5'	Screen: 20-10'
Screen: 30-23'	Grout

9/16/2013 SW NS

Eaton Selma IW/MW install

1430 Spoke w/ JLO in regards to progress.

~~1500~~ +~~1300~~ SW GEX decon's augers, 2nd GEX crew arrives on-site. NS will provide oversight. Driller is Marc.

1525 ~~1325~~ SW Begin drilling IW-3A, IW-3B

~~1345~~ SW 1545 Drilling complete, install wells

Sand: 30-22.5'	Sand: 20-9
Bent: 22.5-20.5'	Bent: 9-7
Sand: 20.5-20'	~~Sand~~ Grout:
Screen: 30-23	Screen: 10-20

1615 ~~1415~~ SW Decon Augers

1640 Set up on IW-4A, IW-4B

1710 Drilling complete on IW-4A, 4B Install well

Sand: 30-22.5	Sand: 20-7
Bent: 22.5-20.5	Bent: 7-7
Sand: 20.5-20'	Grout: 7-0
Screen: 30-23	Screen 20-10

9/16/2013 S. McDonique

EATON SELMA IW/MW INSTALL

1710 finished installing IW-4A, 4B
Decon augers & prepare for
9/17/2013, clean site, Brian tops off
sand in wells he completed. (settled to 13')

1830 Depart site

1930 Arrive @ office

SM

9/17/2013 S. McDonique
N. Shaw

Eaton Selma IW/MW install

615 Depart for site, stop for ice

705 Arrive on-site, hold H&S meeting
GEX on-site

720 Begin drilling, SM w/ Brian's
crew, NS w/ Mark's crew
well construction information on
separate boring / well completion logs

1100 Mark w/ GEX & SF (SIES)
Depart site to leave GEX
truck worked on. 2nd rig unoperational

1140 SF, GEX back on-site

1200 GEX off-site for lunch

1250 GEX back on-site, continue work

1530 NS & GEX off site

1600 Back onsite

9/17/2013 S. McGuire M. Shank

Eaton Selma MW/IW install

1800 All wells for the day drilled
clean up site

1840 off-site

1930 Arrive @ office

SM

9/18/13 S Fordy

Eaton Selma MW/IW installs

620 Depart office, stop for ice

710 Arrive on-site, sign HASP, prepare for the day

740 Begin drilling, SF w/ Brian's drill crew, SM w/ Mark's

915 Tire repair on-site to fix tire on Mark's front end loader. Mark stops drilling because there is nothing to put soil cuttings in while loader is being repaired

945 Front end loader operational, Mark's crew resumes drilling

1200 GEX off site for lunch

1245 GEX on-site, resume work
Gerald Sr

1400 ~~Darrell~~ w/ the town of Selma stopped by and said he would be out early on 9/19 to locate a water main running E-W south of the north driveway @ the site.

9/18/2013

S. Mody
S.F

EATON SELMA IW/MW INSTALL

1745 Marks crew completed drilling on wells for the day, clean up site

1830 off-site for the day, site secure

1930 Arrive @ office

SM

9/19/2013

S. Fahy

EATON SELMA IW/MW INSTALL

0610 Depart office

0705 Arrive on site, sign HASP, GEK on-site. Prep for the day

715 Begin Drilling

745 ~~Burnett~~ Gerald w/ Town of Selma on-site to mark water main line, spoke about other utilities in the area. Utilities in ditch running N-S will move 56, 58' + 60 6' west.

1220 GEK off-site for lunch

1330 GEK back on-site, Brian's rig moves to area where loading dock wells will be located. & cores concrete hole for well pads. Plan is to drill loading dock wells, Grout on 9/19, Complete well pads or dock area wells & allow them to set up over the weekend Spoke w/ JCI + they are OK with plan

7/19/2013 S. Farley

EATON SELMA IW/MW INSTALL

1430 Resume drilling

1630 Mark's crew done drilling for the day, begin developing wells

1740 Brian Done drilling for the day, Clean up site

1825 off-site for the day

1900 Arrive @ office

Wells installed today

IW-30 A/B
31
32
40
38
37
36

IW-15 A/B
16
17

7/20/2013 S. Farley

EATON SELMA IW/MW INSTALL (Rainy)

0600 Depart office

0650 Arrive @ site, conduct H&S meeting, prepare for the day.

0710 Heavy rains, take shelter

845 Resume work. Mark drills one well, Brian's crew mixes grout & tremmies grout into wells

935 Heavy rain, take shelter.

950 Resume work. GEK grouting wells, working on well pads

1200 GEO off-site for lunch

1245 Back onsite, resume working on pads in the loading dock area

1430 Site equipment secure, Depart site for the weekend

1510 Arrive @ office

SF

9/23/2013 N. Shone

Eaton, Selma IW/MW install

800 Depart office, stop for ice

900 Arrive on-site, sign HASP, walk site prepare for the day

945 Begin Drilling

1030 Tire Service onsite to fix tire on Front End loader

1215 - Tire no good will return in approx. 1 hr w/ new tire

1245 GEX offsite for Lunch

1345 Gex returned to site - resumed drilling

1440 Tire Solutions onsite to replace tire on Front End Loader

1800 Solutions offsite

Wells Drilled

IW-60 AB

IW-58 AB

IW-48 AB

IW-46 AB

9-24-13 Eaton Selma N. Shone S. McLaughlin

600 Depart stop for Ice & Gas

710 Arrive onsite, discuss SOW, HASP

720 Begin drilling

915 MW-16 split spoon samples collected @ 5' intervals. Spoke w/ JLO, she wants continuous on next holes, 5' ok for MW-16

945 Spoke w/ JLO in regards to location of MW-18. Could drill originally marked location of MW-18, however can't do SS @ half most. Move north to stay in line w/ Northern row of IWs since we cannot hand clear

1215 GEX offsite for lunch

1300 GEX back onsite, Brian's crew begins developing wells/grouting while Mark's crew installs 2 remaining wells

9/24/2013

S. McDonald
N. Stone

EATON SELMA IW/MW INSTALL

1700 All wells installed, continue developing
Currently taking 2 drums for
development @ 1 borehole (2 wells)
called to inform.
when using surge block
Jody instructed to use no
more than ½ drum per
screen for development

1715 offsite

1845 Arrive @ office

SM

9/25/2013

EATON SELMA IW/MW INSTALL

0745 Depart office

0840 Arrive onsite, inspect progress
Sign HASP

900 Setup equipment to collect
samples from roll off boxes

920 unable to sample rolloff boxes
because lab did not send
terra-cores for soil. Spoke w/
JLO, will return on 9/26 to sample
clean up sampling supplies

1000 offsite

1045 Arrive @ office

SM

9/26/2013

EATON SELWA IW/MW INSTALL

815 Depart office, stop for ice

900 Arrive onsite, inspect progress
prepare sampling supplies.
Collect GW samples after purging
5 min. collect field pH

Well ID	pH
IW-11B	5.11
IW-11A	5.05
IW-18B	4.60
IW-18A	3.80
IW-40B	5.07
IW-40A	3.45
IW-52B	4.12
IW-52A	3.63
IW-60B	4.95
IW-60A	3.80

1115 finished collecting pH samples
gather/pack sampling supplies +
Depart site. GEX pouring pads/finishing

1200 Arrive @ office

9/27/2013

EATON SELWA IW/MW INSTALL

730 Depart office, stop for ice

830 Arrive onsite, sign HASP, inspect site. GEX finished on 9/26/13. prepare sampling supplies.

900 Collect IDW-soil-907 from Rolloff box #907.
VOCs are grab from upper/middle/bottom from 2 random locations
TCLP VOCs are 6 point composite

915 Returned JCI entry pass

930 Collect IDW-soil-904 (ROB #904)

945 collect IDW-soil-910 (ROB #910)

1000 collect IDW-Decon-1 from a single drum of decon H_2O

1015 collect IDW-Development from 4,000 gal poly tank onsite.

9/27/2013 Smoky

EATON SEMA

1020 Sample IDW-Drum-1 (soil drum located North side of storage bldg)

1030 Collect IDW-purge (H_2O drum on N side of storage bldg.

1040 Clean sampling supplies, pack cooler + look over site.

left on site: 1 9000 gal poly tank
1 soil Drum on N side of storage bldg
1 H_2O " " "
1 Empty " " "
2 front-end loaders
16 Drums Decon H_2O
on N side of Facility, South of Northern driveway

1045 Depart site.

1120 Stop for gas

1130 Arrive @ office

SK

S. Janak

10/17/13 Eaton Selma

845 Depart office

9:30 Arrive on-site

10:15 First Tanker on-site

10:30 Labeled All wells

11:00 1st Tanker off-site

12:30 2nd Tanker on-site

13:45 Begin pumping (had issues with equipment)

1435 2nd Tanker done

* wells that have wrong tags
+ Lower side is Deeper well

48, 51, 54, 36, 34, 17, 29

57 - Lower side is deeper / correct tag

40 + 14 - only 3/4" at side showing

70's-80's Sunny

Eaton Selma

10/21/13 EOS Inspection

B. Rebar
S. Janak
S. McIntyre
S. Farling

800 S. Janak + S. Farling leave office + head to site after loading supplies

835 B. Rebar + S. McIntyre ~~[illegible]~~ leave office

920 onsite Hydrants Begin setting up
work on setting stringers in
30 wells Identified as Phase 1 GPA
on site map run hose from hydrant
need 2" flow totalizer
plumb up pumps + tanks

1400 A. McMillan onsite w/ flow totalizer
pressure test from hydrant
to 30 well totalizers, 38 gpm
at Mixing tank location.
fix several small leaks at
1" Hose cam lock fittings

Hydrant Initial totalizer reading 210 gals

1630 pack up totalizers + pumps
for the evening + equipment
to store at shop.

1720 off site for day

1815 Arrive at house

~~1720~~ BMR

Eaton Selma
Gas Injection

B. Reber
S. Jonah
S. Mentte
S. Parling

10/22/13

630 Leave base pick up S. Mentte
715 Stop at Lowes for supplies
735 Arrive onsite Hes mtg
750 Begin collecting baseline
In & Mn readings
work on main pressure
gauges on new totalizers.
845 Start Gas tank recirculation
pump - 14 gpm unrestricted
continue collecting baseline
data on field forms &
plumbing
945 offsite for 2 pressure regulators
1050 onsite J. arrive onsite
& 2 drillers from Get onsite
to fix well pass that we
incorrect.
1120 B. Borden onsite
1155 pressurize water line
1200 inject 5 gals CoBph into
41A & 1 gal into 41B
Start water chase
1208 Inject 5 gals into 27A & 1 to 27B
Start water chase

10/22/13 Eaton Selma Gas

1215 Inject 4 A 5 gals B 1 gal
1216 Start water chase
Inject 29 5 gals B 1 gal A
1220 Start water chase
Inject 30 A 5 gals
Mix new batch 25 gals Hco to
5 gals CoBph
1233 Inject 30 B 1 gal
1238 Inject 15 A 5 gals B 1 gal
1240 Start water chase
Inject 14 A 5 gals B 1 gal
1245 Start water chase
Inject 8 A 5 gals & 8 B 1 gal
1253 Start water chase

1300 Inject 3A 5 gal + 3B 1 gal CoBph

1305 Start water chase
Inject 5A 5 gals
1309 Start water chase
Mix last batch CoBph 27 gals Hco 5 gals CoBph
1316 Inject 5 B 1 gal
1318 Start water chase
Inject 6A 5 gals 6B 1 gal
1322 Start water chase

Eaton Selma
10/22/13 EOS

1324 Inject 10A 5 gals 10B 1 gal
1326 Start water chase
Inject 11A 5 gals 11B 1 gal
1329 Start water chase
Inject 12A 5 gals 12B 1 gal
1332 Start water chase
Inject 32A 5 gals 32B 1 gal
1345 Start water chase
Co Bugh in all 30 starting wells
water chase complete in some
See field forms
Continue water chase
Fill conical tank w/ 300 gals H2o
+ 60 gals EOS
1515 Finish water chase in 8B
it was lowest flow + highest pressure
main inject hose for Co Bugh water
chase start 109243 stop 111099
EOS meter start 1 gal H2o start 18
1543 bleed water from inj line
10600 start 10625
Start EOS inj 10625
1548 Start EOS inj
Start EOS + water into conical
tank at 20 gpm H2o + 4 gpm EOS

Eaton Selma
10/22/13 EOS

1600 Main 20 gpm @ 25 psi;
pump Masked cut wells wide
open
1620 Shut down EOS + water into
conical EOS 182 H2o 926
1630 Stop EOS inj to install booster
pump to increase flow MA generator too small
1640 restart EOS + water into conical
4 gpm EOS + 20 gpm H2O
Shut off EOS + water
EOS 286 water 1467
total used EOS 285 water 1449
need larger diameter hose to
increase flow rates
1734 tank empty pump 23 gals
water through tank + pumps +
lines to clean them
Shut down injection for the day
Shut off hydrant 3855 gals
main line 12343 start 10625
1810 offsite for day
Call JOZ + to update him
~~bill~~ BMR
1900 Arrive at house

Eaton Selma B. Reber
10/23/13 EOS injection S. Garcia
S. Montoya
S. Farling

630 Leave Hanford

715 Arrive onsite H2S Mon
Set up for injection

Initial Meter Readings

EOS	H2O	Hydrant	Inj Line
286	1490	3855	12344

Mix 300 gal H2O to 60

750 Start injecting (see forms)
Start adding to conical tank
at 20 gpm H2O + 4 gpm EOS
Main inj flow meter 16.8 gpm
Cut back mix to 3 gpm EOS / 15 gpm H2O

820 Evo onsite to pick up Ro Box
main line 17 gpm 13250
~~EOS~~ H2O 14.9 gpm 2536
~~H2O~~ EOS 3.1 gpm 523

950 mainline 14338 17.3 gpm
EOS 714 ~~3.4 gpm~~ 3 gpm
H2O 3503 15 gpm

1000 S. Farling onsite w/ fittings
Evo onsite to move soil from
1 box to another

1033 Shut off system to
hook up 2" fire hose

1038 restart 1 pump 2" hose
open all 30 wells + set flows

Eaton Selma
10/23/13

1050 Adjust EOS flow to 4 gpm 880
H2O to 20 gpm 4306
take inj totalizer out of line
because it restricted flow

1055 Adjust to 5 gpm to 25 gpm

1122 Adjust to 6 gpm + ~~30~~ 29 in mix

1128 5.8 gpm to 28.8 gpm

1155 Add second H2O line from
splitter H2O 2 start 111100 16 gpm

1200 H2O 1 21 gpm 6057
H2O 2 16 gpm 111100 37 gpm meter
EOS 7.4 gpm 1264
Total 44.4 gpm

1230 H2O 1 21 gpm 6675
H2O 2 16.2 gpm 111672
EOS 7.3 1478
total 44.5

MW-16 has unusual EOS at 1206
slightly white ph up from 4.86 to 5.4
cond down ~~748 to 200~~
8A is slow 7 psi 0.7 gpm 748 to 200
14A is slow 7 psi 1.1 gpm turb 5 to 1056
MW-17 7.72 to 5.80 ~~[illegible]~~ 1223

1307 Hydrant meter 38 gpm 11030

1330 H2O 1 20 7977 } 35.2
H2O 2 15.2 112675
EOS 7.3 1928
total [illegible]

10/23/13 Eaton Selma
EOS

Open hidden valve on water line
wide open water

1339 H_2O_2 21.4 } 49 gpm
H_2O_1 27.5

Set flows & adjust

H_2O_1 25.2 8268 } 36.8
H_2O_2 11.6 112844
EOS 7.2 2028
total 44 gpm

1405 H_2O_1 11.26 8890 } 38
H_2O_2 11.9 113103
EOS 7.1 2174
total 45

1410 total H_2O 9403 total EOS 1888 = 4.98 to 1

1419 adjust flows
H_2O_1 24.7 } 36.8 23.8 } 35.8
H_2O_2 12.1 12
EOS 7.1 7.1

1445 Shut off H_2O & EOS so
EVO can pick up RO Box they
will get last one in the morning

1503 Restart Injection
H_2O_1 ~~31~~ 21 20.9 } 40.1
H_2O_2 ~~20~~ 19.2
EOS 8 gpm

10/23/13 Eaton Selma
EOS

possible breakthrough at 8A

1510 EOS on ground 10' from well
Shut 8A off continue with
8B 1.4 gpm @ 6 psi 273 gals into cell
14 has EOS in vault
comes up from bottom
Call Jody

1535 Reduce flow rate
H_2O_1 12 10537 } 32 12
H_2O_2 20 114192 20
EOS 6.2 6.3
total 38.3

1547 Shut off 8B since breakthrough
has gotten worse since shutting 8A off

1610 cut back on flow
cut off H_2O_2 114799 = 3699 total
H_2O_1 18 gpm 10935

1616 EOS Stop Eastwater into tank

1645 Start plumbing Group B well

1815 off site for day

Eaton Selma S. Jones S. McIntyre 48°-2 cloudy
10/24/12 EOS / Phase B S. Fain

6:15 Depart for Site. Pick up gas for generator + fuel for truck

7:15 Arrive on site
EOS meter — 2931
#1 H_2O - 11035
"Inj Line H_2O" - 114800
160 gal of EOS mix in TANK

7:40 S.M on-site. Begin plumbing new EOS Line

830 Add 60 gal EOS + 300 gal of H_2O to tank + re-circulate

845 S.F on-site. ≈ 460 gal EOS mix re-circulating.

850 Hold H

910 MW-8 "complete" da t.
Break time - Continue in injection on MW-14A + MW-11A
14 = 1.2 gpm MW-11 = 1.6 gpm

10/24/12 Selma - EOS

102 Add 20 gal EOS to 100 gal H_2O to top tank for MW-14.
MW-11 complete. MW-14 ≈ 1 gpm (4 pts)
≈ 350 gal left.

11:00 We are short. Fire 2" Slip manifolds. Will Fabricate from parts + purchase additional equipment at Lowes

1140 Lowes had parts to make 2 of 4 manifolds needed.

Intacted. P.M. will put remaining 300 gal of Dilute EOS into MW-5 + MW-12. 100 gal into A wells + 50 gal into B wells. Put B-12 into first set of wells prior to chase + hold off on water chase / EOS into MW-8 + MW-14

121 ≈ 3 gpm into "A" wells (5+12)
≈ 2 gpm into "B" wells (5+12)

10/24

1310 Additional EOS into 2 wells.
Chase Line w/ water. Flushed out
Poly pump + recirculation pump (EOS/Beka)
Begin swapping out meters for H_2O chase
moving stinger tubes, plumbing up gauges
to new 2" slip manifolds

1600 chase Line connected. Bled air out
Begin adding 1 oz of B-12 to 26
wells. Not adding to mw 8 A+B + 14 A+B

1630 Start H_2O chase. ≈ 2 gpm each well

EOS End - 3022
H_2O 11401, 114952

11A = 1.8 gpm
11B = 20 gpm

1740 off-site for day. Stop at lowes for Poly
- Lowes only had 3 bushings for manifolds

1900 Arrive at home

S. Jackson
S. Fraser
J. Mills

10/25/13 Eaton Selma (Clark)

6:15 Depart hotel
7:15 Arrive on-site. Check meters S. M on-site

7:30 No Leaks, no meters down. Begin taking readings
(Small Drip - mw-27B)

820 S.F on-site Hold H2S meeting
+ check monitoring wells. ≈ 500-700
gal left in A wells + 900-1000 left
in B wells. Increase B wells to 3 gpm

8A = 592 gal left of EOS mix
8B = 149 gal left of EOS mix
14A = 329 gal left of EOS mix

900 Work on removing bad battery from
generator, optimizing wells + plumbing
3 more manifolds.

930 11A is 10 gpm ≈ 0.4 gpm

TOTAL
AT T.[illegible] 125 ~~225~~ gal $350
225 ~~125~~ gal $500

10/25 Selma

1015 Purchase 225 gal poly tank for MW-14A
will inject 8A/B + watch for breakthru

1115 Plumbing new tank for 14. Monitor
check well. Will mix EOS when time
permits. Sim onsite w/ new battery
for generator.

* H_2O to MW-2 is to surface (TOC)

1130 Will gravity drain MW-14 + hook up MW-8
with group 2 at injection well next week

1151 Mix 170 gal H_2O to 35 gal EOS
for TOT = 205 gal

* ≈ 2 gal of EOS/chase H_2O spilled out
of bucket into storm drain - not
flowing through

1400 205 gal of EOS mix in tank for
MW-14 - open valve

(*) Needs 124 more gallons

10/25 Selma

1545 Bled all hoses + opened all valves
to lines. Disconnected from hydrant
MW-14 still gravity feeding. Flushed
out all lines + pumps
Hydrant totalizer 80300

1600 off site for the day

1645 Arrive at off

S. Jarral A. Smillie
S. Farlz
A. Fulla

10/28 2013.0014/4 EAton Selma

7:40 Depart office. SJ to Lowes to pick up valve for EOS pump

9:5 Arrive on-site Hold H&S meeting + walk thru injection

11:00 All H.S. Lines hooked up + leak tested. Air bled from lines. Take base line readings in 5 monitoring wells + mix 1st batch of Co-push 26 gal H_2O - 5 gal Co-push + recirculate

~~[illegible]~~

A 5 gal
B 1 gal

11:43 Well 44
44A 5 gal CoBupH
11:45 44B 1 gal CoBupH

Well 42
11:47 42 A 5 gal CoBupH
11:49 42 B 1 gal CoBupH

10/28/13

Well 26
11:51 26 A 5 gal CoBupH
11:53 26 B 1 gal CoBupH

Well 28
11:55 28A 5 gal CoBupH
11:56 28B 1 gal CoBupH

Well 25
11:58 25A 5 gal CoBupH
11:59 25B 1 gal CoBupH

Well 18
12:16 18A 5 gal CoBupH
12:17 18B 1 gal CoBupH

Well 31
12:20 31 A 5 gal CoBupH
31 B 1 gal CoBupH

Well 16
12:24 16 A 5 gal CoBupH
12:25 16 B 1 gal CoBupH

Well 33
12:28 33A 5 gal CoBupH
12:29 33B 1 gal CoBupH

10/28/13

Well 9

12:34 9A 5 gal CoBupH
9B 1 gal CoBupH

Well 13

12:52 13A 5 gal CoBupH
12:53 13B 1 gal CoBupH

12:55 started chase
approx 1 gal / min

Well 7

12:59 7A 5 gal CoBupH
1:00 7B 1 gal CoBupH

Well 2

1:04 2A 5 gal CoBupH
2B 1 gal CoBupH
1:07 started chase
approx 1 gal / min

Well 1B

1:15 1A 5 gal CoBupH
1B 1 gal CoBupH

Well 4

1:23 4A 5 gal CoBupH
~~1:24~~ 4B 1 gal CoBupH

10/28/13

1315 Begin mixing First Batch of EOS
75 gal EOS to 350 gal H_2O

1400 Fill MW-14 w/ 125 gal EOS mix
A/N additional 30 gal EOS
to 150 gal H_2O

1415 CoBupH chase is complete
will inject EOS mix into 30 new
wells plus mw 8A/8B

1500 start injection of EOS/mix
@ 1 gpm per well to start
will mix H_2O 20 32 + EOS 6.2

H_2O^1 = 11910
H_2O^2 = 115335
EOS = 3134

1530 Stop mix. Let injection catchup

H_2O^1	12175	265 gal H_2O	675
H_2O^2	115746	411	
EOS	3269	135	135

≈ 1/5 dilution

10/28/17

1540 resume at same ratio
12 gpm H_2O-1
20 gpm H_2O-2
6.2 gpm EOS

1550 New ratio = 5 gal EV / 25 gal/min H_2O (line 2)

1554 EOS 3397 @ 5 gpm
H_2O' 116230 @ 25 gpm

1630 run extra 2" line to hook up 2nd
EOS pump to 42, 44, 26, 28, 25
to increase flow .02 → .42 gpm
currently for those 5 wells.

1654 cut off flow to Conick
H_2O 1 = 12350
H_2O 2 = 117717
eos ~ 3700

1715 will let IIA chase overnight
at ≈ .75 gpm. Mr. M still gravity
draining.

10/28/31

1730 off site for day

1815 Arrive at home

Start H_2O 1 11910
end H_2O 1 12350 } ~~440~~ 430 gal

Start H_2O 2 115335
end H_2O 2 117717 } 2382

2812 H_2O

Start EOS 3134
End EOS 3700 } 566 gal EV

$566 \overline{)2812}$ = 4.96 ≈ 1/5

10/29/17

S. Brown
A. Fuller
J. Farr
A. Martinez

6:15 Depart home. Stop for gas for generator

7:30 Arrive on-site. ~~MW~~ IW-11A still needs 300 gal chase. ~~MW~~ IW-14 gravity drain complete.

- H_2O^1 - 12340 EOJ - 3700
  H_2O^2 117720

750 mix 350 gal H_2O to 75 gal EO
Amelia + Andy on-site

815 S.F on-site.

Put 50 gal in tote to chase IW-14A to rinse out tote + hook IW-14B into main chase line. B-12 added to both

900 pressurize 2 x 2" EOJ lines going to injection + begin for day

Ratio H_2O 1 12 gpm
H_2O 2 20 gpm
EOJ - 6.2 gpm

10/29/17 Selma

923 H_2O^2 - 25.2
H_2O^1 - 11.6
EOJ - 7.2

927 H_2O^2 26.0
H_2O^1 11.7
EOJ 7.1

930 H_2O^2 ~~24~~ 23 } 38
H_2O^1 15.0
EOJ 7.6

1015 H_2O^1 ~~24~~ ~~22.4~~ ~~28~~ 30
~~27~~ ~~23~~ ~~22~~ 18
~~16~~ 9.6

1030 H_2O^1 30 gpm } ~~38~~ 37.5
H_2O^2 17.5 ~~18~~ gpm
EOJ 9.5 9.5
47 gpm

1032 chase into 14B added H_2O to back up into tote. will convert MA to pressure chase + let gravity drain rest when complete

10/29/13 Selma

1045 H_2O-1 30.0
H_2O-2 16
EOS 9.2
} 46/9.2 = 5

			10:55
1050	H_2O-1	30	30.0
	H_2O-2	15	16
	EOS	9.0	9.2

1100 At D on-site. Cut of H_2O + injection line. LAST Roll off - removed

			11:30
1120	resume EOS		
	EOS	9.2	9.0
	H_2O^1	30	30
	H_2O^2	16	15

1215 EOS - 9.0
H_2O^1 - 30.0
H_2O^2 15.0

1232	EOS	5257	0	9 gpm
	H_2O^1	17257	0	30 gpm
	H_2O^2	121330	6	15 gpm

10/29/13 Selma

1330 EOS 2.6 gpm - open max
H_2O^2 13 gpm

* head in tank may have reduced pumping of EOS from Baker tank, max flow is 2.6 gpm (≈ 205 gal of EOS went into tank) - Stopped H_2O ≈ (1350)

1335 EOS 2.2 (max)
H_2O #2 11

1350 EOS 2.6 gpm
H_2O^2 13 H_2O

1430 4 gpm EOS
20 gpm H_2O^2
} 24 gpm
* increase Baker tank line to 1.5"
Resume mix / Injection

1440 EOS ~~3.6~~ gpm (max) / 3.2 max
H_2O^2 ~~16~~ gpm / 16 gpm

1500 EOS 3 gpm max (≈ 2' in Baker TANK)
H_2O^2 15 gpm 150 gal in conick
* cut 5 wells off to reduce flow

10/29/13 Selma

1505 ~~22~~ Stop injection, mix batch
250 gal H_2O 50 gal EOS

EOS start 5865 + 50 = 5915 (≈ 2 gpm)
H_2O^2 start 123498 + 250 = 123598

1530 EOS ≈ 1.6 gpm
Resume EOS injection into 1/3 well (Amilio's)
8AM 80 EOS complete

Sampling cooler in S.S office for well

1630 EOS 5915 @ 1.4 gpm into
conicle.

note @ 1350

≈ 205 gal of EOS mix went into Bunker tank when
breaker blew at 1350. Stopped H_2O
into tank & Fixed pump. Need to
Add ≈ 205 gal of EOS into
final #'s

H_2O^1 -18550 (start) = 12340 = 6210 (Today) 1/25
H_2O^2 = 123605 (start = 117 770 = 5885) 1/25
EOS 5915 (start 3700) = 2215
+ 205 mix

10/29/13 Selma

1700 $\frac{12905}{4240}$ = 4.9% ratio

1705 Andy + Angela off-site for day,
continue to mix EOS for Am
≈ 1 gpm from batch tank

Use drum pump to pump into EOS
pump from Batch tank

1750 EOS sta 5995 = 80 gal
H_2O^1 start 18550 = 18750 = 200
H_2O^2 start 123605 = 123805 = 200 gal

1750 Batch complete.

End H_2O^1 = 18750
H_2O^2 = 123805
EOS = 5995.5 + 205 = 6200

1750 off-site for day

1850 Arrive at home

10/31/13 2013.0014/4 S. Stevens S. Fagin Andy Smith Tri-State

6:15 Depart Home, Stop for fuel for generator

7:15 Arrive on-site.

7:30 MW-14B still chasing, increased to 3 gpm at 9 psi

8:30 remove hose assembly from bottom of brine tank, flush + store. Rinse 2nd pump + store. Re-secure all hoses to tank. Start re-circulating eos/mix

8:35 Steve + Andy on-site Hold H+S meeting + begin setup/injection/chase. Andy to begin

9:45 EO start 5996 @ ~~10.5~~ 7.5 → 4 gpm 9:50
H_2O^1 18750
H_2O^2 123805

9:50 Drum pump does not pump at constant rate. 104 gpm dru. pump

9:52 mix 60 gal eos to 300 gal H_2O Steve + Andy sampling wells

9:58 Batch complete. Resume injection. Have to wait for some wells to be sampled prior to chase

10:30 2nd out of 3 strings completed EOS injection. 100 gal of mix in conck mix 60 gal EOS to 300 gal H_2O.
≈ 8 gpm out of Drum pump
2nd batch mixed (3rd for day)

10:40 Batch complete, start EOS mix injection for last string of 11
Last string = 4 wells

10:50 H_2O coming out of ground in "break thru" Area. cont chase to MW-14 A+B. Break thru is murky chase water at this point. Not very milky
Reduce eos injection in MW-13 A to 3 gpm = Stopped break thru

10/30/13

1101 Start Continue mix - 3 gpm EOS out of dam pump + 15 gpm out of H_2O^1

11:15 ≈ 2.5" of EOS in Baker Tank

11:20 Stopped mix. Baker Tank level below dam pump intake.

1125 324 gal left
mix 2 gpm EOS to 10 gpm H_2O

11:40 Stop mix - same problem w/ dam pump inconsistant mix speeds

12:00 ≈ 2" of EOS in baker Tank. Will add 10" of H_2O + pump out w/ chase H_2O to cells. Will hold 5" of H_2O when down to 2" in Tank

1205 Begin chase on 2nd string
Add H_2O to Cocock to clean out then will Fill Baker Tank with H_2O + clean chase on other strings (1+3)

10/30/13

will chase string 1 off of hydrant. Chase string 2+3 off of Baker Tank.
End EOS meter = 6190

1245 H_2O^1 = 19457 ≈ 31 gpm
H_2O^2 = 124105 ≈ 22 gpm
into Baker Tank

1305 2" EOS (200 gal)
10" H_2O (4105+573) 4678

1325 12" total in tank. Recirculate + start chase (B-12 added to well) + extra 8A + 8A

1330 ~~#~~ 800 gal of EOS probably from 205 gal of EOS mix that was reverse flow into Tank?

1335 4" drained
≈ 7.75" in tank

1345 5" in Baker Tank

0

10/30/13

1400 Add 500 gal H_2O to Baxa tank. Pumped down to ≈ 1" of mix

1407 H_2O added

1415 1½" - 20280 - open & will chase from tank until clear

1445 less than ½" H_2O. no further pumping no residue noticed on bottom of tank but ½" is milky

1530 All wells H_2O chasing except IW-14 letting tank drain overflow (backflow) eol mix into MA. Continue sampling monitor wells.

1550 Record chase return pressure on All wells

1700 Depart site, well continue to chase overnight.

1745 Arrive @ office

10/31/13 S. Farling

Eustis Selma

0730 Depart to site

0815 Arrive on site, conduct H&S meeting

0830 Do a walk around O/N chase - same wells over desired chase, noted on injection logs

chase water filled IW-15 vault and pooled on asphalt O/N, about 3 gal on surface, will clean up

After several wells cut off breakthrough occured near IW8 once again, possibly increased flow in IW-8 and 13. cut both off, breakthrough stopped.

IW-12 vault filled a halfway with chase sometime O/N.

No pressures above 5 psi this morning

Eaton Selma

1000 Noticed IW 43 vault filled w/ chase/EOS. Ground slightly soggy between 42, 43, but no pooling or visible EOS. bailed vault, no increase in water level for ~10 min, made no changes to wells other than initial wells that ended chase @ 830.

1007 pooling around IW-13 pad, cut flow again, this was not visible in initial rounds @ 830

1030 Begin DNAPL test on MW-18 with oil-red-O.

1100, shut several wells off, notice B/T near IW-7, cut 7A/B off.

1145. Area near IW-7 seems larger, shut next nearest well, IW-2A off, ending ~40gal short

Eaton Selma

1341 chase complete in all wells except those noted as causing B/T
- 14 A/B
- 8 A/B
- 7 B
- 2A

1400 remove stingers, femcos, seal wells and conduct post Phase 1 IW monitoring

1530 complete IW monitoring begin to pack it up

1750 Depart site

S. Farling

11/1/13 Eaton Selma S. McIntyre

900 Depart office for site

950 arrive on site, conduct H&S, start clean-up

1430 clean-up complete, demobe from site to shop.

1600 Arrive @ shop and unloaded.

S. Farling

11/11/13 Eaton Selma

– Transfer well sample notes from 10/30/13 and 10/31/13 event.

MW-05 from AM 10/30/13

1002 begin MW-05 purge

time (—)	Flow rate (mL/min)	Cum vol. (L)	pH (SU)	Spec. Cond. (mS/cm)	DO (mg/L)	ORP (mV)	turbidity (NTU)	depth to water (ft)	°C
1025	85	2.48	5.64	3656	2.29	137.6	192	9.62	19.26
1033	90	3.2	6.83	2361	3.75	113.7	111	10.33	19.30
1038	100	3.7	6.80	2279	3.20	111.6	74.0	10.76	19.30
1043	100	4.2	6.67	2246	3.28	110.8	69.9	11.07	19.28
1048	100	4.7	6.30	2253	3.32	114.8	88.6	11.46	19.40
1053	100	5.2	6.00	2316	3.29	119.9	84.5	11.80	19.36
1058	100	5.7	5.47	2359	3.17	132.4	84.3	12.23	19.44
1103	100	6.2	5.27	2437	3.08	146.2	74.7	12.51	19.46
1108	100	6.7	5.06	2527	3.02	150.2	85.5	12.85	19.50
1113	100	7.2	4.80	2570	2.94	157.8	60.6	13.10	19.44
—	leave to stabilize								
1212	100	13.3	4.26	3551	1.79	180.9	18.21	14.97	20.47
—	Empty Flow thru cell								
1224	75	14.2	4.22	3799	2.09	182.8	9.49	14.86	20.38
1229	75	14.6	4.20	3873	2.18	182.6	7.34	14.90	20.56
1234	75		4.19	3939	2.14	182.3	6.11	15.63	20.68

11/11/13

1234 begin sampling
1255 finish sampling.
collected 1x500mL unpreserved
1x250mL unpreserved
1x 250mL pres. HNO_3

1513 - begin purge on MW-08

Time	Flow rate	Cum vol	pH	Spec cond	DO	ORP	Turbidity	Depth to water	°C
(—)	(mL/min)	(L)	(SU)	(mS/cm)	(mg/L)	(mV)	(NTU)	(ft)	(°C)
1520	360	2.52	3.91	953		-9.7	19.87	5.48	18.71
1526	360	4.68	3.77	961		-3.1	24.05	5.41	18.75
1532	270	6.30	3.76	961		-1.7	19.54	5.30	18.69
1537	270	7.65	3.79	955		2.6	8.24	5.22	18.64
1542	280	9.05	3.81	956		-3.7	9.85	5.18	18.69
1547	270	10.40	3.87	954		-7.4	7.96	5.11	18.66

1551 begin sample
1801 finish sampling
collected DUP-1 @ location.
2x 500mL unpreserved
2x 250mL pres. HNO_3
1x 250mL unpres.

11/11/13

From 10/31/13, AM

944 Begin Purge of MW-03

Time	Flow rate	Cum vol	pH	Spec cond	ORP	Turbidity	Depth to water	Temp
(—)	(mL/min)	(L)	(SU)	(mS/cm)	(mV)	(NTU)	(ft)	(°C)
955	110	0.11	3.49	3488	11.2	34.85	5.31	19.90
1010	140	0.81	3.49	3477	-11.2	14.28	5.32	19.99
—	Leave for Turbidity to drop							
1105	120	66.81	3.49	3682	-20.5	15.57	5.34	20.33
1111	120	67.53	3.45	3693	-20.1	5.36	5.33	20.28
1116	120	68.13	3.44	3706	-19.8	4.64	5.33	20.34
1121	120	68.75	3.43	3706	-18.7	4.10	5.34	20.33

1124 Begin sample
1135 complete sampling
collected:
1x 500mL unpreserved
1x 250mL unpres.
1x 250mL pres w/ HNO_3

11/11/13

From 10/31/13 AM

1155 begin purge on MW-04

time	Flow rate	Cum vol	pH	Spec Cond.	ORP	Turbidity	Depth to water	Temp
(—)	(mL/min)	(L)	(SU)	(µS/cm)	(mV)	(NTU)	(ft)	(°C)
1333	170	16.66	3.41	3796	-8.8	4.60	3.80	19.72
1338	180	17.56	3.40	3780	-8.6	4.49	3.81	19.72
1343	170	18.41	3.42	3764	-8.4	3.13	3.85	19.67

1346 Sample MW-04
1353 complete Sample
collect:
1x 500mL unpreserved
1x 250mL unpreserved
1x 250mL pres. w/ HNO_3

11/11/13

From 10/30/13 SF notes

1010 begin purge on MW-17

Time	Flow rate	Cum vol	pH	Spec cond	ORP	Turbidity	Depth to water	Temp
(—)	(mL/min)	(gal)	(SU)	(µS/cm)	(mV)	(NTU)	(ft)	(°C)
1025	120	0.48	4.96	808	-73.4	96.10	7.30	19.78
1030	120	0.64	4.95	812	-73.8	80.83	7.31	19.82
1035	120	0.80	4.94	820	-72.6	63.66	7.31	19.89
	leave for turb to drop							
1119	125	2.25	4.82	861	-63.9	34.80	7.28	19.81
1124	125	2.41	4.81	860	-63.0	8.73	7.28	19.84
1129	125	2.58	4.81	863	-62.8	6.21	7.28	19.83
1134	125	2.74	4.81	870	-62.3	4.17	7.28	19.91

1137 begin Sample
1148 comple sample,
collect
1x 500mL unpreserved
1x 250mL unpreserved
1x 250mL pres. w/ HNO_3

APPENDIX H

INJECTION EVENT RECORD

INJECTION EVENT RECORD

North Carolina Department of Environment and Natural Resources – Division of Water Quality
Permit Number WI0500657

1. **Permit Information**

Eaton Corporation
Permittee

Former Selma Facility
Facility Name

1100 East Preston Street, Selma, NC 27576
Facility Address

2. **Injection Contractor Information**

Solutions-IES, Inc.
Injection Contractor / Company Name

Street Address 1101 Nowell Road

Raleigh	NC	27607
City	State	Zip Code

(919) 873-1060
Area code – Phone number

3. **Well Information**

Number of wells used for injection 60

Well names IW-1A/1B - IW-16A/16B, IW-18A/18B IW-25A/25B - IW-33A/33B, IW-41A/41B - IW-44A/44B

Were any new wells installed during this injection event?
☒ Yes ☐ No

If yes, please provide the following information:

Number of Monitoring Wells 5

Number of Injection Wells 60

Type of Well Installed (Check applicable type):
☐ Bored ☒ Drilled ☐ Direct-Push
☐ Hand-Augured ☐ Other (specify) _____

Please include two copies of form GW-1b for each well installed.

Were any wells abandoned during this injection event?
☐ Yes ☒ No

If yes, please provide the following information:

Number of Monitoring Wells _____

Number of Injection Wells _____

Please include two copies of the GW-30 for each well abandoned.

4. **Injectant Information**

CoBupH-Mg/EOS XR
Injectant Type

Concentration 5:1 (Potable Water:Product)

If the injectant is diluted please indicate the source dilution fluid. Hydrant along East Preston Street

Total Volume Injected 186,576 gallons

Volume Injected per well 3,108 g (A) 3,112 g (B)

5. **Injection History**

Injection date(s) 10/22/13 - 10/31/2013

Injection number (e.g. 3 of 5) 1 of 2

Is this the last injection at this site?
☐ Yes ☒ No

I DO HEREBY CERTIFY THAT ALL THE INFORMATION ON THIS FORM IS CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT THE INJECTION WAS PERFORMED WITHIN THE STANDARDS LAID OUT IN THE PERMIT.

SIGNATURE OF INJECTION CONTRACTOR 11/20/13 DATE

Sean Jarvah
PRINT NAME OF PERSON PERFORMING THE INJECTION

Submit the original of this form to the Division of Water Quality within 30 days of injection.
Attn: UIC Program, 1636 Mail Service Center, Raleigh, NC 27699-1636, Phone No. 919-733-3221

Form UIC-IER
Rev. 07/09

APPENDIX I

INJECTION MONITORING FORMS

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-1A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 336

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1318	—	—	336	Start chase
	1350	—	—	394	end chase
	1505	—	—	396	Start eos
	1540	2	1.4	448.5	
	1704	—	—	581	end eos for day
10/29	0911			581	Start eos
	1017	1	0.8	690	
	1044	1		750	
	1056	1	2.3	777.5	
		~~2~~			eos off for
	1127 ~~1157~~	3		860	
	1135	2	1.9	815.5	
	1230	1		941	
	1237	1	4.7	974	
	1259	0	3.2	1066	
	1455	—	—	~~1257.5~~ → 1257.5	end eos
		—	—	1257.5	Start chase
	1616	6	1.5	1729	Set O/N Chase
10/31	0838			3194	
	1002	3		3363	
	1026	3		3413.5	
	1110	—		3517	end chase

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Injection Monitoring Form

Injection Well ID#: IW-7B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 30634

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1318	—	—	30634	Start chase
1405	—	—	30694	end Chase
1505	—	—	30694	Start EOS
1541	2	0.8	30720	
1704	—	—	30787	end eos for day
1029 0911	—	—	30787	Start eos
1019	2	1.6	30877	
1044	3		30927	
1056	3	2	30950.5	
				eos off for.
1128	5		30966	
1135	5	1.8	30979	
1230	2		31033.5	
1238	2	1.12	31042.5	
1350	—	—	31118	end eos
	—	—	31118	Start Chase
1623	3	1.5	31420	Set o/N Chase
0838			32934	
1062	6		33182	
1027	6		33242	
1206	6		33616	
1259	—		33806	end chase.

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Injection Monitoring Form

Injection Well ID#: IW-2A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Over Cast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 909

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1307	—	—	909	Start Chase
	1349	—	—	969	End chase
	1504	—	—	969	Start EOS
	1532	2	0.4	974.5	
	1703	—	—	1005	End EOS for day
10/29	0910	—	—	1005	Start EOS
	0919	5 ~~6~~	1.6	1024	
	1015	3	1.6	1106.5	
	1043	5		1148	
	1055	5	1.8	1170	
					EOS off for
	1125	5		~~1185~~ 1189.5	
	1134	5	1.7	1205.5	
	1228	5		1297	
	1236	4	~~1.5~~ 1.9	1312.5	
	~~1350~~	—	—	~~5118~~	~~End EOS~~
	1442	5	2.8	1523	
	1618	—	—	1621	End EOS for day
10/30	1045	—	—	1621	Start EOS
	1058	5	4.0	1646	
	1139	—	—	1817	End EOS
~~10/31~~		—	—	1817	Start Chase
	1619	7	1.5	2096	Set O/N Chase
10/31	0837			3381	

1001	4		3639	
1025	4		3722.5	
1153	—	—	4035.5	and chcuse, possible BT

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Injection Monitoring Form

Injection Well ID#: IW-2B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 551

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1307	—	—	551	Start Chase
	1356	—	—	611	end Chase
	1504	—	—	611	Start EOS
	1537	1	0.5	628	
	1703	—	—	663	end eos for day
10/29	0910	—	—	663	Start eos
	0920	6	1.6	681	
	1014	6.5	1.6	757.5	
	1043	6		807	
	1055	6		838	
					eos stopped for
	1126	7		864	
	1134	7	2.5	884	
	1229	5		997	
	1237	5	2	1014	
	1246	—	—	1035	end eos
		—	—	1035	Start Chase
	1623	7	1.5	1274	Set O/N chase
10/31	0838			2526.5	
	1001	5		2869	
	1026	6		~~3724~~ 2990	
	1205	5		3530	
	1240	—		3730	end chase

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Injection Monitoring Form

Injection Well ID#: IW-34

Date: 10/22/2013 - 10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 1

Start Time: 1300 (10/22)

End Totalizer Reading: 909 / 57760

End Time: 1444 (10/25)

Total Gallons Injected:

CoBuph goal = 61 EOS goal = 909 chase goal = 57760

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1356	1	1.0	42	1st Reading CoBuph chase	10/22
1415	–	–	61	CoBuph chase complete	"
1552	0	0	61	Start EOS	"
1800	–	–	90.5	END EOS FOR DAY	"
753	–	–	90.5	Start EOS 10/23/13	10/23
811	1	1.3	115.4	1st Reading	"
831	1	1.4	148.5		"
903	1	1.4	178.1		"
959	1	1.4	247.6		"
1121	2	~~1.0~~ 0.9	~~312.3~~ 327.8		"
1144	1.5	0.8	346.0		"
1227	1.5 (1.9) ↔	(0) 1	382.6	increased flow ≈ 1.9 gpm @ 1 psi	
1325	0	1.8	484.6		
1421	1	3.1	594.3		
1526	2	4.1	785.5		
1555	–	–	909	END EOS	
1625	–	–	~~57760~~ 55500	start chase w/new mix	
1453	1	2	55557.3		
731	3	1.8	~~57760~~ 57122.5		10/25
909	2	2	57245.1		
1116	1	1.3	57355.1		
1349	3	2.8	57663.1		
1444	–	–	57760	Chase H_2O complete	

Shut down + Restart @ 1045 in

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Injection Monitoring Form

Injection Well ID#: IW-3B

Date: 10/22/2013 - 10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 13

Start Time: 1310 (10/22)

End Totalizer Reading: 13218

End Time: 1500 (10/25)

Total Gallons Injected: 13205

CoBupH goal = 73 EOS goal = 497 chase goal = 13218

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1352	0	1.0	71.1	CB chase, 1st Reading	10/22
1354	—	—	73	CoBupH chase complete	"
1552	0	0	73	Start EOS 10/22	"
1800	—	—	125.2	END EOS 10/22	"
753	—	—	125.2	Start EOS 10/23	10/23
810	0	1.4	145.5	may adjust next reading (1st Reading)	
833	1	1.1	165.6		10/23
902	1	1.0	193.9		"
958	1	1.0	249.3	Shutdown & Restart @ 1045	"
1121	1	1.0	312.3		"
1142	0	1.0	332.2		"
1225	0 (2)	1.0 (1.9)	368.3	increased to 1.9gpm @ 2 psi	
1323	1	1.6	471.3	18.7 gal remaining	"
1340	—	—	497	EOS complete	"
1625	—	~~1.8~~	10530	Start Chase w/ new meter	"
1652	1.5	1.8	10571.5		"
742	3	1.9	12166.3		10/25
912	3	1.8 ↑ 2	12331.3		"
1115	3	2	12564.3		"
1348	4	3.6	12940.0		"
~~1414~~ 1443	4	5.2	13143.3		"
1500	—	—	13218	Chase H_2O complete	"

1418

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Injection Monitoring Form

Injection Well ID#: IW-4A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 1017

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
~~1339~~ 1372	—	—	1017	Start chase
1339	—	—	1077	end chase
1507	—	—	1077	Start eos
1543	3	0.3	1098.5	
1705	—	—	1103	end eos for day
10/29 0912	—	—	1103	start eos
1020	1	2.5	1211	
1044	1	1.8	1263	
1057	1	1.8	1287.5	
				eos off for
~~1138~~ 1128	2		1311	
1136	2	2	1327	
1231	2		1436	
1239	2	3.75	1464	
1457	1	2.4	1756	
1619	—	—	1807.5	end eos for day
1045	—	—	1807.5	Start EOS
1056	6	3.6	1842	
1123	—	—	1925	End EOS
	—	—	1925	Start chase
1626	7	~~1.5~~ 1.5	2261	Set O/N chase
10/31 0839			4575	end chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-4B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 535

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1327	—	—	535	Start Chase
1339	—	—	595	End chase
1508	—	—	595	Start eos
1546	1	1.2	640	
1705	—	—	738.5	end eos for day
0913	—	—	738.5	Start eos
1024	5	2.4	891.5	
1045	4		936	
				eos off for
~~1138~~ 1120	4		965.5	
1137	4	1.7	1001.5	
1203	—	—	1040	~~eos~~ End eos
	—	—	1040	Start Chase
1622	9	1.5	1231	Set O/N Chase
10/31 0840			3935	end Chase

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Injection Monitoring Form

Injection Well ID#: IW-5A

Date: 10/22/2013 -

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 4/10

Start Time: 1309 (10/22)

End Totalizer Reading: 1017.1 / 2270

End Time: 1144 (10/25)

Total Gallons Injected:

CoBupH gal: 72 EOS gal = 920/1020 Chase gal = 2270

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1400	2	2.0↓(1.0)	41.3	CB chase 1st Reading	10/22
1413	—	—	64	CoBupH chase complete	"
1552	0	0	72	Flushed 8 gal thru out of line over ground Not into well.	"
1800	—	—	76.2	Start EOS @ 72 ~~Start~~ END EOS 10/22	"
8753	—	—	76.2	Start EOS 10/23	10/23
812	1	0.7	94.1	increase next reading	"
835	3	0.6	106.3		"
904	2.5	0.6	123.8		"
1000	2.5	0.5	153.4	Shutdown / Restart @ 1045	"
1124	~~0~~ 2	4.2↓(1.0)	283.6	decreased from 4.2 to 1.0 gpm @ 1 psi	
1147	1	0.9	302.1		"
1320	0	1.2	466.4		"
1424	0	2.8	593.6		"
1528	3	3.6	719.9		"
1602	4	4.2	880.1		"
1611	—	—	920	EOS COMPLETE	"
1215	—	—	920	Additional 100 gal EOS added	10/24
1223	5	2.8	936.3		"
1237	9(4)	2.8 ↓(1.0)	974.6	decreased flow to 1.6 gpm @ 4 psi	
1250	~~4~~	—	997.2	Prep add'l EOS, restart @ 1300	
1308	—	—	1017.1	EOS complete - All in line.	
1675	—	—	10	Start chase w/ new water	
1054	1	2.2	72.0		

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-5A

Date: 10/22/2013

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 4/10

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Chase goal = 2270

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
735	2	2.2	1772.0	10/25
904	2	↑ 1.4 (2.2)	1928.3	341 gal remaining
1115	2	1.8	2203	
1146	—	—	2270	Chase H_2O complete

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-5B

Date: 10/22/2013 - 10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 1

Start Time: 1318 (10/22)

End Totalizer Reading: 535/2497.7

End Time: 1221 (10/25)

Total Gallons Injected:

CoBupH goal: 61 EOS = 485/525 chase goal = 2497.7

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1358	2	0.8	22.1	CB chase, 1st Reading	10/22
1433	—	—	61	CoBupH complete chase	"
1552	0	0	61	Start EOS 10/22	"
1800	"	—	90.5	END EOS 10/22	"
753	—	—	905	Start EOS 10/23	10/23
814	2	0.8	110.1		"
836	2	1.0	128.0		"
904	2	1.0	156.5		"
1001	2	1.0	218.6	Shutdown/Restart @ 1045	"
1126	1	1.2	291.3		"
1142	~~0~~ 1	~~1.0~~ 1.4	~~332.2~~ 314.4		"
1327	1	1.2	449.8	35.2 gal remaining	"
1403	—	—	485.0	END EOS	"
1215	—	—	485.0	All add. hand 50 gal EOS	10/24
1225	4	2	504.7		"
1236	3.5	2	527.3		"
1239	—	—	535	COMPLETE	"
1625	—	—	22689	Start chase w/ new well	"
1656	1	2.1	22362.6		"
737	1.5	2.4	24342.1		10/25
907	1.5	2.4	24561.3		
1118	2	2.5	24836.0		
1221	—	—	24977	chase #20 complete 1405	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 6A

Date: 10/22/2013 - 10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 1 / 11295

Start Time: 1322 (10/22)

End Totalizer Reading: 909 / 13555

End Time: 1340 (10/25)

Total Gallons Injected:

CoBuph goal = 61 EOS goal = 909 chase goal = 13555

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1400	0	0.8	24.3	CB chase, 1st reading	10/22
1436	—	—	61.0	end CoBupH	"
1552	0	0	61.0	Start EOS 10/22	"
1500	—	—	71.1	END EOS 10/22	"
753	—	—	71.1	Start EOS 10/23	10/23
809	0	1.4	92.1	will adjust next reading	"
830	0	1.3	127.6		"
901	0	1.4	168.4		"
957	0	1.3	234.0	Shutdown/Restart @ 1045	"
1118	1.5	0.64 (1.0)	319.8	increased flow to 1.0 gpm @ 2psi	"
1141	2	1.1	344.3		"
1224	0 (1)	1.2 (1.9)	390.6	increased to 1.9 gpm	
1321	1	1.2	478.2		
1420	1	3	551.5		
1525	1	3.2	708.6		
1600	2	4.1	849.6		
1613	—	—	909	EOS complete	
1625	—	—	~~13555~~ 11295	start chase w/new meter	
1648	0	2	11343.1		10/25
745	1	2	13069.3		
914	1	2	13193.3		
1114	1	1.2	13327.6		
1340	—	—	13555	Chase H_2O complete	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 6B

Date: 10/22/2013 - 10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 17521 / 11715

Start Time: 1322 (10/22)

End Totalizer Reading: 14403 / 11715

End Time: 1423 (10/25)

Total Gallons Injected:

CoBuph goal = 17581 EOS goal = 18007 chase goal = 14403

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1403	2	1.2	17558.5	CoBuph chase 1st Reading	10/22
1414	2	—	17582.8	end CoBupH - over 17581 goal	
DIPE 1436	—	—	17582.		
1552	0	0	17582.8	Start EOS 10/22	10/22
1880	—	—	17649.5	END EOS 10/22	"
753	—	—	17649.5	Start EOS 10/23	10/23
807	2	1.0	17657.6		"
824	2	1.1	17675.6		"
859	2	1.0	17777.6		"
956	2	1.0	17762.0	Shutdown/Restart @ 1045	"
1120	4	1.2	17825.3		"
1139	3	1.2	17847.8		"
1221	2	1.2 (1.6)	17897.5		"
1320	2	1.0	17957.0	50 gal remaining	"
1406	—	—	18007.0	EOS COMPLETE	"
1625	—	—	11715	Start ~~EOS~~ Chase w/ new water	10/24
1649	2	2	11772.3		"
744	2	2	13551.3		10/25
9 AM	2	2	13738.5		
1112	2	1.4	13929.6		
1346	3	3	14287.3		
1423	—	—	14403	chase H2O complete	

1400

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-7A

Date: 10/28/17

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 909

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1300	—	—	909	Start chase
	~~1331~~	—	—	—	—
	1340	—	—	~~964~~ ~~1800~~ 959	end chase / reading error
	1502	—	—	~~964~~ 959	Start EOS
	1529	2	no flow	964.5	—
	1701	—	—	1012.5	end eos for day
10/27	0908	—	—	1017.5	Start eos
	1010	4	1.2	1104	
	1042	4		1153	
	1054	4	1.75	1174	
	1124	5		1190	eos off for
	1133	5	1.4	1203	
	1227	5		1281	
	1235	5	1.4	1299.5	
	1445	5	2.8	1446	
	1617	—	—	1528	end eos for day
	1045	—	—	1528	Start EOS
	1054	3	3.4	1561	
	1202	—	—	1807	EOS complete
		—	—	1807	Start Chase
	1620	9	1.5	2037	Set O/N Chase
10/31	0835			4233	end Chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-7B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 18007

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1300	—	—	18007	Start Chase
1331	—	—	18067	end Chase
1303	—	—	18067	Start EOS
1530	4	0.2	18071.5	
10/29 1701	—	—	18132	end eos for day
1708	—	—	18132	Start eos
1011	4.5	~~1.2~~ 1.6	18209	
1042	6		18277	
1054	6	2.2	18303	
				eos off for
1124	6		18326.5	
1133	5	2.2	18346.5	
1228	6		18457	
1235	6	2.7	18476.5	
1246	—	—	18502.5	end eos
	—	—	18502.5	Start Chase
1620	8	1.5	18836	set O/N Chase
10/30 0836			20170	
1000	6		20307	
1025	5		20364	
1110	—	.	20467	cut chase due to BT

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-8A

Date: 10/22/2013 -

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 2

Start Time: 1253 (10/22)

End Totalizer Reading: 335.5

End Time: 1500 (10/23)

Total Gallons Injected: 333.5

CoBupH gal = 62 EOS gal = 927

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1401	5	0.8	33.0		10/22
1428	—	—	78.5	Flow rate increased unexpectedly while monitoring a different well	"
1552	0	0	78.5	Start EOS 10/22	"
1800	—	—	78.5	END EOS 10/22	"
753	—	—	78.5	Start EOS 10/23	10/23
816	4	0.35	84.9	valve maxed (wide open)	"
836	4	0.3	90.2	"	"
907	4	0.2	109.0	"	"
1002	4	0.2	114.2	" (Shutdown/Restart @ 1045)	
1128	8	0.5	147.6		"
1149	8	0.6	168.8		"
1332	6	0.5	238.0		"
1500	—	—	335.5	SHUT OFF DUE TO RAINFALL NEAR WELL	"
1500	—	—	493	new totalizer Start EOS	
1522	4	0.5	498.5		
1700	—	—	554.5	End EOS for day	
10/24 0905	—	—	554.5	Start EOS	
0914	7	0.4			
1007	7	1.6	620		
1041	4		674.5		
1053	4	1.3	691		
				Stopped EOS for	

1123	4		703.5	
1132	5	1.2	715	
1227	6		794	
1234	6	2	808	
1459	7	1.2	1067	
1545	—	—	1084.5	ends
	—	—	1084.5	Start Chase
1615	8	1.5	1203	Set 0/N Chase

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 16-8A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
10/31	0834			2573.5	
	0845	—	—	2646	end chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-BB

Date: 10/22/2013 - 10/23

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 30249

Start Time: 1253 (10/22)

End Totalizer Reading: 30634.5

End Time: 1550 (10/23)

Total Gallons Injected:

(cobupH gal: 30359 EOS gal: 30783

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1430	7	1.2 ↓(0.4)	30327.1	decreased to 0.4gpm @ 5psi
1455	9	2	30330	increased to 2gpm per BMR
1510	—	—	30359	END CoBupH
1552	0	0	30359	Start EOS 10/22
1800	—	—	30361.1	END EOS 10/22
8753	—	—	30361.1	Start EOS 10/23
817	5	0.1	30362.4	valve wide open
839	5	<0.1	30363.5	"
907	5	NO FLOW	30364.2	CLOSED VALVE TO keep unaerated EOS from entering
1002	4	"	"	"
1127	6	0.8	30401.2	Shutdown/Restart @ 1045
~~1128~~ 1150	5	0.8	30425.6	
1330	5	0.8	30496.2	
1530	6	1.4	30594.6	
1550	—	—	30634.5	Shut off due to daylight nearby
1501	—	—	920	new totalizer
1526	4	0.6	934.5	
1701	—	—	986.5	end eos for day
10/24 0907	—	—	986.5	start eos
0917	6	1.2	999	
1008	7	1	1061.5	
1013	—	—	1069	end eos
10/30	—	—	1069	Start Chase
1620	1.3	1.5	1202	Stop O/N Chase

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-8B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time:

End Time:

Date:

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading:

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
0831			2747.5	
0845	—	—	2859	stopped chase

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-9 A

Date: ~~Oct~~ 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Clear

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 915

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1234	—	—	915	Start Chase
	1303	—	—	981	end Chase
	1508	—	—	981	Start EOS
	1549	3	0.8	1000	
	1706	—	—	1127	End eos for day
10/29	0913	—	—	1127	Start eos
	1025	-1	2.8	1263	
	1045	-1		1323.5	
					eos off for
	1129	0		1394.5	
	1137	0	2.6	1415.5	
					eos off for
	1203	—	—	1040	~~End eos~~
	1232	0		1561	
	1239	0	3.9	1588.5	
	1432	—	—	~~18~~ 1829	End eos
		—	—	1829	Start Chase
	1618	3	1.5	2315	Set O/N Chase
10/31	0841			3863	
	1004	3		3993	
	1028	3		4032	
	1107	—		4097.5	end chase

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-9B

Date: ~~10/28~~ 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 17760

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1234	—	—	17760	Start Chase
	1304	—	—	17820	end chase
	1508	—	—	17820	Start EOS
	1550	2	0.4	17847	
	1706	—	—	17889	end EOS for day
10/29	0914	—	—	17889	Start EOS
	1024	2	2.4	18009	
	1046	2		18054	
					eos off for
	1131	2		~~11~~ 18117	
	1137	2	2.5	18132.5	
	1233	0		18210	
	1240	0	1.2	18219	
	1258	—	—	18244	end eos
		—	—	18244	Start chase
	1619	5	1.5	18546	Set O/N Chase
10/3	0841			20068	
	1004	3		20250	
	1028	3		20331	
	1208	3		20683	
	1313	—	—	20932	end chase

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Injection Monitoring Form

Injection Well ID#: 10A

Date: 10/22/2013 - 10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 57615 / ~~1580~~ 15763

Start Time: 1326 (10/22)

End Totalizer Reading: 18023

End Time: 1530 (10/25)

Total Gallons Injected:

CoBupH goal = 57735 EOS goal = 58583 chase goal = 18023 ~~15~~

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1404	2	0.6	57689.0	CoBupH chase 1st Reading	10/22
1438	~~4~~ 2	1.0	57730.8	end CoBupH @ 57735.0	"
1552	0	0	57730.8	Start EOS 10/22	"
1800	–	–	57741.6	END EOS 10/22	"
753	–	–	57741.6	Start EOS 10/23	10/23
806	4	0.6	57751.3	May increase flow next reading	"
822	4	↑0.6 (0.8)	57762.1	increased flow to 0.8 gpm	"
857	3	1.0	57794.1		"
955	3	1.1	57856.6	Shutdown/Restart @ 1045	"
1115	1	1.6 ↓ (1.2)	57955.2		"
1137	1	1.2	57978.4		"
1215	~~25~~ 0 (0)	1.0 ↑ (1.4)	58023.4	increased to 1.4 gpm @ 0 psi	"
1319	0	1.8	58126.8		"
1418	0	2	58231.6		"
1523	1	3.2	~~5855~~ 58314.6	increased/set flow to 3.2 gpm	"
1558	1.5	4.4	58440.1	~~183~~ 143.1 gal left	
1629	–	–	58583	EOS COMPLETE	
1625	–	–	15763	Start chase H_2O w/new water	
1646	1	1.8	15805.5		
749	3	1.9	17203.4		
915	3	2.0	17319.1		
1110	3	0.85	17419		

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-10A

Date: 10/22-10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

chase goal = 18023

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1345	4.5	2	17629.3		10/25
1440	5	17818	5.1		"
1530	–	–	18023	Chase H_2O complete	"

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 103

Date: 10/22/2013 – 10/25/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 3 / 17683.0

Start Time: 1326 (10/22)

End Totalizer Reading: 20335

End Time: 1510 (10/25)

Total Gallons Injected:

CoBuph goal: 63 EOS goal: 487 chase goal: 20335

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1405	1	1.1	35.5	Cobuph chase 1st Read.	10/22
1438	—	—	63.1	end CoBuph chase	"
1552	0	0	63.1	Start EOS 10/22	"
1800	—	—	~~84.~~ 79.2 gm	END EOS ~~10/22~~ 10/22	"
753	—	—	~~89.~~ 79.2 gm	Start EOS 10/23	10/23
804	3	0.8	85.3		"
820	3	0.7	96.1		"
856	3	0.6	116.0	valve made open	"
926	3	0.6	133.0	"	"
953	3	0.6	147.6	"	"
1054 1114	4.5	1.4	206.4	Shutdown / Restart @ 1045	"
1135	4	1.6	240.1		"
1215	2.5 (4)	1.44 (1.7)	305.4	increased to 1.7 gpm @ 4 psi	"
1315	4	1.4	398.2		"
1415	—	—	487	EOS COMPLETE	"
1625	—	—	17647	Start Chase H_2O w/new meter	
1642	0	1.8	17683.0		
747	0	1.8	19218.3		10/25
919	0	1.9	19381.3		
1109	2	2.0	19607.6		
1344	6	3.0	19920.0		
1447	6	5.0	20243.1		
1510	—	—	20335	Chase H_2O complete	

1420

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-11A

Date: 10/22/2013

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ~~10695~~ 10635

Start Time: 1329

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	~1430	—	—	10695	cobph capuh
	1550	—	—	10695	start EOS
	1630	2	1.4	10758.5	
	1740	—	—	10821.1	end for day
10-23	1045	—	—	10821.1	start EOS
	1056	6	1.6	10846.2	
	1153	4	1.0	10918.2	
	1314	~~6~~ 5	1.0	10990	
	1425	4	0.6	11056	
	1530	5	0.5	11104	
	1643	6	2.8	11281	
	1743	—	—	11433.2	end for day
0/24	910	—	—	11433.2	start EOS
	918	3	1.6	11447	
	1017	—	—	11543	End EOS
0/24	1625	—	—	140	start chase
/25	822	7	0.8	943	
	858	10	0.4	964	
	1130	12	0.2	983.7	
	1336	13	<0.1	998.3	
9/28	1130	—	—	998.3	start chase cayun
0/29	913	9	1	2178	continue from over night chase
	1440	—	—	2430	— end chase 30 gal

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IGW-11B

Date: 10/22/2013

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 9

Start Time: 1329

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
~1245	—	—	64	CoBuph chase complete
1550	—	—	64	start EOS
1740	—	—	104.8	end for day
10/23 1045	—	—	104.8	start EOS
1056	7	1.2	122.0	
1153	6	1.0	169.1	
1314	6	1.2	295	
1425	5	1.0	387.5	
1530	~~5~~	~~0.5~~ 1.0	490	
1600	—	—	488	End EOS
10/24 1625	—	—	2	Start chase
10/25 822	3	1.0	1054	
858	6	2.8	1138	
1130	8	3.0	1588	
10/28 1336	10	3.6	2016	End chase for day
10/29 915	—	—	2016	begin chase
920	6	3.2	2020	
9:00	—	—	2090	End chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 12A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1332

End Time:

Date:

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 1

End Totalizer Reading:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1415	0	1.4	54.4	leaking into wellvault
	1435	—	—	61.1	initially - fixed. end CoBupH
	1552	—	—	61.1	start EOS
	1631	1	1.8	112.3	lowered rate a bit
	1740	—	—	206.4	end for day
10/23	1043	—	—	206.4	Start EOS
	1058	1	1.6	238.0	
	1155	0	1.0	306.8	
	1317	0	1.6	436	
	1426	0	2.5	571	
	1531	0	4.0	714	
	1615	—	—	909	End EOS
10/24	1215	—	—	909	add 100 gal to initial EOS
	1228	0	2.8	962	
	1244	—	—	1009	End Extra EOS
10/24	1628	—	—	13807	Start chase
10/25	826	-10	1.2	15313	
	903	-10	1.8	15376	
	1132	-10	3, ~~[illegible]~~ SAFE	15781	
	1325	~~-10~~	—	16111	End chase, 44 gal over

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 12 B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1332

End Time:

Date:

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading:

End Totalizer Reading: 1

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1417	1	1.2	47.1	
	1435	—	—	61.1	end CoBupH
	1552	—	—	61.1	start EOS
	1632	2	0.8	104	
	1740	—	—	165.9	end for day
10/23	1045	—	—	165.9	start EOS
	1058	3	1.6	184.7	
	1155	1	1.0	249.2	
	1317	1	1.2	354.5	
	1428	4	2.4	470	
	1436	—	—	485	End EOS
10/24	1215	—	—	485	Add 50 gal to initial EOS
	1228	2	2.0	519	
	1238	—	—	535	End extra EOS
	1350	—	—	571.5	allowed line to bleed
	1628	—	—	4	into well
					start chase
	1650	0	1.8	35	
10/25	826	3	1.2	1604	
	903	5	3.2	1716	
	1132	5	3.0	2137	
	1340	6	3.0	2510	
	1429	—	—	2692	End Chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-13A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 712

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1255	—	—	717	Start Chase
1320	—	—	775	End Chase
1500	—	—	775	Start EOS
1537	1	1.0	820	
1701	—	—	951	end EOS for day
900	—	—	951	Start EOS for day
953	0	1.8	1037	
1217	0	2.4	1203	
1444	0	1.0	1442.5	
1505	—	—	1466	Cut Flow of EOS
1045	—	—	1466	Start EOS
1048	0	4.0	1457	
1138	—	—	1624	End EOS
	—	—	1624	Start Chase
1630	2	1.5	2154	Set O/N Chase
10/29 0833			3252	
958	3		3437	
1023	3		3487	
1203	2		3660	
1316	2		3820	
1338	—		3883	end chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-13B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 600

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1255	—	—	600	Start Chase
	~~1320~~	—	—	—	—
	1324	—	—	660	end chase
	1500	—	—	660	Start EOS
	1537	2	0.8	697	
	1701	—	—	816	End EOS for day
10/29	900	—	—	816	Start EOS for day
	953	2	1.2	890	
	1159	—	—	1085	End EOS
		—	—	1055	Start Chase
	1629	6	1.5	1443	Set O/N Chase
10/31	0833			3263	
	957	5		3431	
	1024	3	1.8	3480	
	1203	5		3651	
	1241	—		3772	end chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 14A

Date: 10-22-13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 96

Start Time: 1245

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1250	2	0.6	94	
	1309	3	1.0	112.8	
	1326	5	1.0	128.4	
	1348	6	1.3	154.1	end CoBupH @ 156.0
	1553	—	—	156.0	start EOS
	1709	4	0.8	173.5	
	1740	—	—	193.4	end for day
10/23	1045	—	—	193.4	Start EOS
	1102	4	1.2	223.5	
	1158	6	0.4	255.8	
	1233	8	1.0	271.5	
	1320	6	1.2	326	EOS in vault
	1532	7	1.2	446	
	1622	—	—	532	cut flow
10/24	913	—	—	532	start EOS for day
	917	4	1.2	541	
	1020	4	1.0	605	
	1158	—	—	712.1	stop EOS
10/28	800	—	—	917.1	stop gravity feed at 205
10/28	815	—	—	1042	end 125 gal gravity feed EOS.
	830	—	—	41481	begin water check
	1237	—	—	41584.5	
	1548	—	—	41707.5	

1600	—	—	4/17/07:5	cud chase for night
1431 1614	1.5	—	gravity	
1339	1.5	—	gravity running dade until empty then ending chase ☺ 4/17/07, 5	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 14B

Date: 10-22-13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 95

Start Time: 1246

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1251	2.5	0.7	99	
	1310	5	1.0	112.8	
	1325	6	0.8	125.2	
	1352	4	1.0	155.0	end CoBupH
	1553	—	—	155	start EOS
	1709	5	0.4	175.4	
	1740	—	—	181.4	end for day
10/23	1045	—	—	181.4	Start EOS
	1102	10	0.8	188.6	
	1158	7	0.8	241.2	
	1233	10	1.2	274.0	
	1320	9	1.2	351	EOS in vault
	1532	10	1.4	524	
	1603	—	—	600	End EOS goal 579
10/24	830	—	—	22701	Begin water chase
	1239	—	—	23022	
	1548	—	—	23192	
	1600	5	1.0	23200	set for overnight run
10/30	921	8	2.8	~~23~~ 24385	
10/31	1340	—	—	25160	end chase short of
					25389 goal.

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-15A

Date: 10/28/2013

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 1

Start Time: 1241

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1324	1	1.0	44.8	
	1334	1	1.2	60.0	stop CoBupH @ 61
	1554	—	—	61	start EOS
	1710	2	1.0	139.5	
	1740	—	—	158.5	end for day
10/23	1045	—	—	158.5	Start EOS
	1104	0	1.0	176.0	
	1200	0	1.0	230.3	
	1323	0	1.4	357	
	1534	0	4.4	645	
	1632	—	—	909	End EOS
10/24	1630	—	—	2	Start chase
	1635	0	1.4	9	
10/25	830	0	1.2	1266	
	908	1	2.4	1355	
	1144	1	2.4	1723	
	1342	1	~~3.2~~ SAP 3.0	~~2585~~ SAP 2141	
	1422	—	—	2262	End Chase

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-15B

Date: 10/22/2013

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 17275

Start Time: 1243

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1322	2	1.0	17307.9	
	1345	3	1.4	17325.0	end CoBupH
	1554	—	—	17335	Start EOS
	1710	2	1.0	17407.6	
	1740	—	—	17433.0	end for day
10/23	1045	—	—	17433.0	Start EOS
	1104	1	1.0	17469.0	
	1200	0	1.0	17530	
	1323	0	1.6	17651	
	1430	—	—	17759	End EOS
10/24	1630	—	—	2	Start chase
	1635	0	1.8	10	
10/25	830	2	1.4	1572	
	908	2	~~3.2~~ SPIF 2.8	1675	
	1144	3	3.4	2192	
	1342	3	3.2	2585	
	1415	—	—	2690	End chase

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-16A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 571

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1225	—	—	571	Start Chase
1301	—	—	631	end chase
1501	—	—	631	Start EOS
1534	0	2.6	675.5	
1703	—	—	868.5	End EOS for day
10/29 900	—	—	868.5	Start EOS for day
957	0	1.2	923	
1220	0	3.0	1127	
1446	0	4.0	1420	
1505	—	—	1430	Cut Flow of EOS
10/30 845	0	—	1430	Start EOS
850	0	4.0	1450	
859	—	—	1479	End EOS
	—	—	1479	Start chase
1601	3	1.5	1680	set O/W chase
10/31 0831			3384	
0845	—	—	3454	cut chase
940	—	—	3454	resume chase
950	3		3486	
1018	3	3.11	3573	
1115	—	3.4	3789	end chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-16B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 1009

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1225	—	—	1009	Start chase
1304	—	—	1069	end chase
1500	—	—	1069	start EOS
1539	0	1.8	1136.5	
1703	—	—	1269	End EOS for day
10/29 900	—	—	1269	Start EOS for day
950	0	1.0	1311	
1220	1	2.4	1460	
1235	—	—	1493	End EOS
	—	—	1493	start chase
1602	4	1.5	1628	set O/N chase
10/30 0831			3322	
845	—	—	3392	cut chase
945	—	—	3392	resume chase
950	4		3420	
1018	5		3493.5	
1200	4		3844	
1311	—		4181	end chase

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-18 A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 12864

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1212	—	—	12864	Start chase
	1218	1.5	1.2	12868	
	1248	—	—	12930	end chase
	1502	—	—	12930	Start EOS
	1544	0	2.8	13030	
	1705	—	—	13223.5	End EOS for day
10/29	400	—	—	13223.5	Start EOS
	954	0	2.8	13373	
	1221	—	—	13378	End EOS
	1345	~~3~~	—	13378	start chase
	1550	3	4	14032	
	1552	3	1.5	14036	set for O/N chase
10/31	0830			16299	end chase

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-18B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 17022

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1217	—	—	17022	Start chase
	1218	2.5	1	17026	
	1251	—	—	17082	end chase
	1502	—	—	17082	Start EOS
	1544	2	2.4	17205	
	1706	—	—	17412	End EOS for day
4/29	900	—	—	17412	Start EOS
	959	1.5	1.2	17476	
	1025	—	—	17506	End EOS
		—	—	17506	Start chase
	1553	3	1.5	17735	set for O/N chase
10/29	0831	4.0	1.97	19908	
	946	5.5	2.5	20189	
	948	5.5	2.5	20194	end chase

1104

19.883 18.9

30 gal left

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: ~~IW-9A~~ IW-25A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 581

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1200	—	—	581	Start chase
1201	3	1.2	582	
1244	—	—	641	End chase
307	-	-	641	Start EOS
307				
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	AF
351	1	1.6AF	710	
405	1	1.6AF	731	
425	1	3.6AF	753	
501	0	0	755	Stop EOS for day
10/29 900				Start EOS
~~908~~	~~7~~	~~.16~~	~~1121~~ AF	
910	1	2.0 AF	771	
934	1	1.8 AF	811	
1006	1	1.6	861	
1031	1	2.4	901	
1122	1	2.8	974	
1147	2	3.2	1032	
1258	2	3.6	1229	
153	1	1.6	1364	
242	1	2.8	1420	
343	0	0	1489	Stop EOS
10/30 1245	—	—	1489	start chase
1308 603	3 .5	3.2 1.5	1559 1403	set EOS chase

10/31 0843 4813 end chase

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: ~~IW-9B~~ IW-25B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 926

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1210	—	—	926	Start chase
	1211	2	0.8	927.5	
	1245	—	—	987	end chase
	307	—	—	987	Start EOS
	307				
	~~347~~	~~0~~	~~.60~~	~~1038~~	AF
	350	4	~~1.4~~ 2.0 AF	1041	
	409	3	~~2.0~~ 2.0 AF	1078	
	501	0	0	1112	Stop EOS for day
10/29	9(7)				Start EOS
	908	7	~~1.6~~ 1.6 AF	1121	
	935	6	~~.8~~ .8 AF	1149	
	1007	4	2.8	1216	
	1032	3	2.0	1290	
	1123	4	1.8	1354	
	1145	0	0	1411	Stop EOS
10/30	1245	—	—	1411	Start chase
	1307	7	0.6	1426	
	1603	5		1604	set O/N chase
10/31	0844			4994	end Chase

168 gal kept

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-26A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 58583

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1154	—	—	58583	Start chase
1155	1	1.00	58586	
1253	—	—	58643	end chase
305	—	—	58643	Start EOS
305				
342	1	~~.44~~ .8 AF	58708	
402	1	~~1.2~~ 1.8 AF	58708	after leak fixed
417	1	~~4.6~~ 3.2 AF	58738	
504	0	0	58754	Stop EOS for day
10/29 900				Start EOS
914	1	~~.24~~ 2.4 AF	58790	
1000	1	1.2	58859	
1014	1	1.2	58874	
1037	1	2.0	58910	
1128	1	2.0	58969	
1141	1	3.2	58995	
1219	1	2.0	59088	
1255	0	3.2	59180	
155	2	.8	59265	
244	0	2.0	59282	
347	0	3.2	59355	
423	0	0	59491	Stop EOS
10/30 1245	—	—	59491	Start chase
1317	1	2	59551.5	

	1607	4	1.5	59765	set for O/N chase
10/31	0849			61977	end chase

4911
-3323
1588

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Injection Monitoring Form

Injection Well ID#: IW-26B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 490

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1154	—	—	490	Start Chase
1155	1	1.00	493.5	
1242	—	—	550	End chase 1
305	—	—	550	Start EOS
305				
343	1	2.4 AF	591	
404	0	2.4 AF	638	after valve fixed
418	0	2.8 AF	673	
504	0	0	695	Stop EOS for day
10/29 900				Start EOS
917	2	3.6 AF	752	
1002	0	.9	824	
1015	0	.8	835	
1039	0	2.4	881	
1129	0	2.4	956	
1136	—	—	974	Stop EOS
10/30 1245	—	—	974	Start chase
1318	1	2	1043.5	
1607	2	1.5	1300	set for O/N chase
10/31 0850			3642	End chase

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-27A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1213

End Time:

Date: 10/22/2013

Weather: Overcast

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 11 / 12037 (Chase)

End Totalizer Reading:

Total Gallons Injected:

End EOS 919

End Chase 14297

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1231	0	0.8 ↑ (1.1)	23.6	increased flow to 1.1 gpm
1311	1	1.0	58.1	
1321	—	—	71	CoBupH chase complete
1554	—	—	71	Start EOS
1613	1	0.7	87	
1741	0	0	153	Stop for day
10/23 753	0	1.0	157	Start EOS
855	0	1.0	208	
1005	0	0.8	270	
1121	0	~~1.8~~ 1.4	331	2" Line
1214	0	2.0	417	
1320	0	3.0	544	
1406	0	3.0	692	
1525	0	4.0	897	
1531	0	0	919	EOS Complete
1630	0	2	12037	Start chase 10/24
747	0	2	13740	10/25 ≈550 left
913	2	2.2	13926	≈370 left
1106	1	2.1	14120	170 left
	—	—	14297	Chase Complete

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-27B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1214

End Time:

Date: 10/22/2013

Weather: overcast

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 8/4

End Totalizer Reading:

Total Gallons Injected:

End EOS 492

End chase 2692

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1230	2	0.9	18.5	
1310	3	1.2	48.1	
1328	—	—	68	CoBupH chase complete
1555	—	—	68	Start EOS
1614	2	0.7	80	
1741	0	0	121	Stop for day
10/23 753	3	0.8	121	START EOS
856	2	1.0	176	
1005	2	0.8	232	
1123	4	1.8	291	2" Line
1214	8	2.0	366	
1405	0	—	492	EOS complete
10/24 1630	3	2	4	Start chase 10/24
747	2	2	1590	10/25 (≈1000 gal) [illegible] to 3:30 pm
913	2	3.2	1796	≈900 left
1106	2	3.1	2110	580 left
1247	5	3.6	2431	≈250 left
1328	5	3.4	2610	80 left
1348	—	—	2692	chase complete

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-28A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 922

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1158	—	—	922	Start chase
1159	2	0.8	925	
1245	—	—	987	end chase
308	—	—	982	Start EOS
308				
346	0	1.6 MF	1042	
406	1	1.6 MF	1070	
421	0	2.4 MF	1082	
505	0	0	1086	Stop EOS for day
10/29 900				Start EOS
918	0	2.4 MF	1127	
1003	1	2.8	1238	
1029	0	2.8	1317	
1057	1	2.0	1391	
1120	1	2.4	1400	
1210	1	2.8	1524	
1257	1	3.6	1663	
152	1	1.2	1791	
238	0	0	1830	Stop EOS
10/30 1245	—	—	1830	start chase
1312	0	4	1944	
1606	0	1.5	2568	Set O/N chase
10/31 0846			4253	End chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IW-28B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 579

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1158	—	—	579	Start chase
	1159	2	1.2	587	
	1249	—	—	639	end chase
	308	—	—	639	Start EOS
	308				
	347	1	1.2	653	
	406	1	.8 AF	658	
	422	1	.4 AF	662	
	505	0	0	663	Stop EOS for day
10/29	900				Start EOS
	919	4	2.4 AF	709	
	1004	3	1.2	782	
	1030	4	2.4 AF	834	
	1121	6	2.8	903	
	1211	5	2.4	1016	
	1229	0	0	1063	Stop EOS
10/30	1245	—	—	1063	start chase
	1313	5	2	1134	
	1606	3	1.5	1473	set %N chase
10/31	0847			3233	
	953	7		3407	
	1024	2		3493.5	
	1202	9		3686	
	1215	—	—	3757	end chase

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: 29A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1220

End Time:

Date: 10-22-13

Weather: overcast

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 3/1

End Totalizer Reading:

Total Gallons Injected:

End EOS 911

End chase 2261

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1228	2	1.2	~~3~~ 53F	
1305	2	1.2	33	
1327	—	—	63	CoBupH chase complete
1557	—	—	63	Start EOS
1617	0	0.8	75	
1741	0	0	90	Stop for day
10/27 7:33	2	~~0.7~~ 1.0	90	START EOS
858	0	1.0	132	
1008	0	1.0	210	
1125	0	1.2	293	
1216	1	2.0	371	
1315	1	~~2.5~~ 3.0	492	
1407	1	3.0	654	
1527	1	4.0	856	
1540	—	—	911	EOS complete
1630	0	2	1	10/24 Start chase
752	1	2	1500	1425 ≈ 600 left
918	1	2.2	1765	≈ 500 left
1108	1	2.1	1954	300 left
1250	1	3.4	2150	≈ 100 left
1330	—	—	2276	(15 gal was) chase complete

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: 293

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1221

End Time:

Date: 10/22/13

Weather: overcast

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: ~~29~~ 16 SBF / 8942

End Totalizer Reading:

Total Gallons Injected:

End EOS 500

End chase 11630

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1230	—	0.6	17.8	~~broken gauge~~
	1308	—	0	20.0	no flow
	1343	0	2.1 (1.0)	67.1	Reduced to 1 gpm
⊗	1352	—	—	76	coBuph chase complete
	1557	—	—	76	Start EOS
	1618	2	0.3	82	
	1741	0	0	93	Stop for day
10/23	753	4	0.8	93	START EV
	859	4	0.9	126	
	1008	3	1.0	200	
	1126	4	1.2	274	
	1216	5	2.0	344	
	1315	5	2.0	442	
⊗	1400	0	0	500	EOS complete
	1630	4	2.0	8942	10/24 Start chase
	751	5	2.0	10691	10/25 Increased to 3.2 gpm ≈ 900 left
	918	5	3.0	10920	≈ 700 left
	1109	5	3.0	11227	400 left
	1251	8	3.8	11580	≈ 50 left
	1308	—	—	11630	Chase complete

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-304

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1235

End Time:

Date: 10/22/2013

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 18 / 39215

End Totalizer Reading:

Total Gallons Injected:

End EOS 926

End chase 41475

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1320	1	1.2	61.2	
1333	1	1.4	78.0	end CoBupH chase
1554	–	–	78	start EOS
1618	0	1.0	101	
1741	0	0	181	stop for day
1427 753	0	0.9	181	START EOS
900	0	1.0	244	
1009	0	1.0	314	
1128	0	1.2	391	
1217	0	2.0	478	
1315	0	3.0	584	
1410	0	3.0	762	
1530	0	0	926	EOS complete
1424 1670	2	2.0	39215	start chase 10/24
753	4	2.0	41027	1425 2 400 left
930	4	2.1	41191	= 300 left
1110	4	2.0	41442	30 left
1125	–	–	41475	chase complete

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-30B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1235

End Time:

Date: 10/22/2013

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 93 / 20013

End Totalizer Reading:

Total Gallons Injected:

End EOS 581

End chase 22701

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1319	1	1.2	129.8	
1331	1.5	1.0	145.5	
1341	—	—	157.2	end CoBupH chase - use 7.2 gal (1120)
1556	—	—	137.2	Start EOS
1619	2	0.9	182	
1741	0	0	242	Stop for day
10/23 753	1	0.8	242	Start EOS
901	1	0.8	298	
1010	1	~~1.0~~ 0.9	352	
1128	1	1.2	416	
1218	1	2.0	488	≈ 90 gal left
1315	0	0	581	EOS Complete
1630	2	2	20013	10/24 Start chase
754	1	2.2	22140	10/25 ≈ 600 left increased to 50 psi
930	1	3.0	22387	≈ 700 left
1110	1	3.0	22653	50 left
1128	—	—	22701	chase complete

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW31 A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 490

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1221	—	—	490	Start chase
	~~1255~~	—	—	~~1160~~	
	1259	—	—	550	end chase
	1504	—	—	550	start EOS
	1549	2	0.8	600	
	1707	—	—	683	End EOS for day
10/29	900	—	—	683	Start EOS
	1088	0	2.4	780	
	1230	1	1.2	892	
	1505	—	—	1038.5	Cut EOS
1030	847	3	2	1043.0	Start EOS
	1015	2	~~1.8~~ 1.3	1290	increased flow
	1026	—	—	1398	EOS complete
		—	—	1398	start chase
	1600	3	~~1165~~ 1.5	1765	set O/N chase
10/31	0832			3464	
	845	—	—	3550	cut chase
	945	—	—	3557	resume chase
	950	2		3590	
	1014	—	—	3668	end chase

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-31 B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 11543

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1221	—	—	11543	Start chase
	1255	—	—	11603	end chase
	1504	—	—	11603	start EOS
	1549	2	0.4	11622.5	
	1707	—	—	11625.5	End EOS for day
10/29	900	—	—	11625.5	Start EOS
	1008	3	1.2	11692	
	1230	3	0.5	11733	
	1505	—	—	~~10 5 9~~ 11857	Cut EOS
10/30	847	4	2.0	11862	start EOS
	1015	—	—	12027	EOS compete
		—	—	12027	start chase
	1601	5	1.5	12140	set O/N chase
10/31	0833			14422	
	845	—	—	14528	cut chase
	945	—	—	14528	resume chase
	951	4		14554	
	1019	5		14625	
	1107	—	—	14769	

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 32A

Date: 10-22-13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 2

Start Time: 1345

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	~1425	—	—	62	End CoBupH
	1355	—	—	62	Start EOS
	1712	—0	0.8	168.2	
	1740	—	—	187.2	end for day
10/23	1120	—	—	187.2	Start EOS
	1128	3	1.0	205	
	1205	2	1.2	257.4	
	1217	2.4	2.4	282	
	1326	2	2.4	432	
	1536	2	4	767.5	
	1613	—	—	925	End EOS good GID
10/24	1632	—	—	14051.7	Start chase
	1657	0	1.6	14075	
10/25	833	0	0.8	15446	
	911	0	2.8	15550	
	1151	0	2.2	15997	
	1342	—	—	16311.7	End chase

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Injection Monitoring Form

Injection Well ID#: 32 B

Date: 10 22-13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 24

Start Time: 1345

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	~1425	—	—	84	End CoBupH
	1555	—	—	84	Start EOS
	1712	0	1.0	188.4	
	1740	—	—	209.6	end for day
10/23	1120	—	—	209.6	Start EOS
	1128	3	1.1	222	
	1205	2	1.0	265.6	
	1218	2	1.7	285	
	1326	0	1.6	342	
	1441	—	—	508	End EOS
10/24	1632	—	—	9501	Start chase
	1657	0	1.0	9526	
10/25	833	2	1.2	11130	
	911	5	2.8	11240	
	1151	3	3.4	12825	
	1332	—	—	12189	End Chase

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Injection Monitoring Form

Injection Well ID#: IW-33 A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ~~985~~ 925

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1228	—	—	925	Start chase
	1307	—	—	985	end chase
	1503	—	—	985	Start EOS
	1546	1	2.4	1063	
	1706	—	—	1216	End EOS for day
10/29	900	—	—	1216	Start EOS
	1002	2	0.6	1259	
	1223	2	2.8	1452	
	1505	—	—	1657	Cut Flow of EOS
10/30	850	—	—	1659	Start EOS
	855	2	4.0	1672	
	1002	—	—	1833	EOS complete
		~~3~~	~~1.5~~	2833	Start chase
	1559	3	1.5	2083	set O/N chase
10/31	0829			4060	
	0846			4095.5	end chase

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Injection Monitoring Form

Injection Well ID#: IW-33B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 508

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1228	—	—	508	Start chase
1258	—	—	568	End chase
1503	—	—	568	Start EOS
1546	1	1.2	624.5	
1706	—	—	711	End EOS for day
10/29 900	—	—	711	Start EOS
1002	4	—	746	
1223	4	2.4	896	
1305	—	—	992	End EOS
	—	—	992	Start chase
1553	2	1.5	992	set for O/N chase
10/30 0829	—	1.8	3057	
950	3	SAME ~~0.73~~ 2.3	3247	
1017	4	2.2	3305.5	
1158	4	3.58	3574	
1225	—	3.93	3680	end chase

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-41A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1209

End Time:

Date: 10/22/2013

Weather: OVERCAST

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: Sr Ø3 / Chase 12090

End Totalizer Reading:

Total Gallons Injected:

End EOS 928

End H_2O 14350

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1209	0	1.2	3	CoBupH chase H_2O
1229	0	1.1	Sr Ø30.1	Flow decreasing as added H
1257	0	0.8	57.1	wells hooked into line
1303	—	—	63	CoBupH chase complete
1552	—	—	~~63~~ 80	Start EOS (Blow out H_2O)
1606	0	0.8	92.5	
1741	0	0	190	Stop for day
7:53	1	1.0	190	Start EOS
853	0	1.0	255	
1002	0	1.0	325	
1120	0	1.2	406	changed to 2" Line
1211	0	2.0	481	
1300	0	3.0	560	
1405	0	3.0	742	
1522	0	0	928	EOS complete
1630	1	2	12090	10/24 - Start chase
743	1	2	13647	10/25 [illegible] left
907	1	2.1	13773	555 left
1103	1	2	14000	350 left
245	1	2	14200	150 left
25	2	3	14300	50 gal left
12	—	—	14350	chase complete

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-9B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1210

End Time:

Date: 10/22/2013

Weather: Overcast

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 57688 / 9770 (chase)

End Totalizer Reading:

Total Gallons Injected:

End EOS 58172

End chase ~~17435~~ 12458

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1210	2	1.4	57688	
1228	1	1.0	57711.1	
1304	1	1.0	57737.1	
1316	—	—	57748	CoBpH chase complete
1553	—	—	57748	Start EOS
1607	1	0.8	57761	
1741	0	0	57807	Stop for day
10/23 753	3	1.0	57807	Start EOS
854	2	1.0	57870	
1002	1	1.0	57938	
1120	3	1.2	58017	change to 2" line
1211	2	2.0	58091	~ 80 gal left
1300	0	0	58172	EOS Complete
1630	1	2	9770	Start chase 10/24
743	1	2	11550	10/25 ~ 900 gal Increased to 3.1 gpm
907	1	3	11762	700 left
1103	1	3	12060	450 left
1245	1	3	12330	~ 130 left
1325	—	—	12458	Chase complete

~~104 gal left~~ ~~132~~ 124

129 gal left

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-42 A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: Overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 58174

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1148	–	–	58174	Start chase
	1149	1	1.2	58177.5	
	1230	–	–	58234	end chase
	303	–	–	58234	Start EOS
	303				
	~~358 303~~	~~0~~	~~1.0~~	~~58318~~	~~AF~~
	358	0	.8 AF	58350	
	414	0	.8 AF	58353	
	503	0	0	58363	Stop EOS for day
10/29	900				Start EOS
	914	0	2.4 AF	58393	
	958	0	1.2	58488	
	1011	0	1.6	58500	
	1035	0	.4	58531	
	1126	0	1.6	58566	
	1215	0	2.0	58660	
	1254	0	3.2	58763	
	154	0	1.2	58868	
	244	0	2.4	58920	
	346	0	3.2	58997	
	403	0	0	59082	Stop EOS
10/30	1245	–	–	59082	Start chase
	1314	0	4	59191.5	
	1608	0	1.5	59724	set to O/N & leave

10/31 0848 61754
0853 61773 The Chase

Solutions
Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-42B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 928

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1148	—	—	928	Start chase
	1149	3	1.2	930	~~End chase~~
	1228	—	—	988.5	end chase
	303	—	—	988.5	Start EOS
	[illegible]				
	240	1	.4 AF	992	
	4.01	0	.8 AF	997	
	415	1	.8 AF	1001	
	503	0	0	1005	Stop EOS for day
10/29	900				Start EOS
	915	5	2.8 AF	1030	
	959	2	1.2	1087	
	1012	2	1.4	1128	
	1036	2	1.6	1160	
	1127	2	1.6	1207	
	1216	3	2.8	1292	
	1252	0	0	1413	Stop EOS
10/30	1245	—	—	1413	start chase
	1315	5	0.8	1444.5	
	1608	5	1.5	1581	set for O/N chase
10/31	0849			4748	end Chase

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Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: IN-93A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1218

End Time:

Date: 11/22/13

Weather: overcast

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 14 / 8043

End Totalizer Reading:

Total Gallons Injected:

End EOS 922

End chase 10333

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1234	0	0.9	283	
1302	0	0.7	488	
1324	—	—	7464	CoBupH chase complete
1340	0	1.0	64	wrong end volume on meter tape. Restart chase
1350	—	—	74	CoBupH chase complete
1556	—	—	74	Start EOS
1615	0	0.8	90	
1741	0	0	142	Stop for day
1123 753	0	1.0	142	Start EOS
857	0	1.0	197	
1007	0	1.0	264	
1122	0	1.2	337	
1215	0	2.0	417	
1300	0	3.0	500	
1407	0	3.0	690	
1527	2	4.0	890	
1533	—	—	922	EOS Complete
1630	1	2	8043	11/24 Start chase
749	1	2	9782	11/25 ~500 left
915	1	2.2	9921	~300 left
1107	1	2.1	10160	170 left
1230	—	—	10333	Chase Complete

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Industrial & Environmental Services

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Injection Monitoring Form

Injection Well ID#: IW-43B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1218

End Time:

Date: 10/22/2013

Weather: overcast

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 26 / 15007

End Totalizer Reading:

Total Gallons Injected:

End EOS 510

End Chase 17695

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1234	0	1.0	49.6	
1306	1	0.8	57.4	
1335	—	—	86	CoBupH chase complete
1556	—	—	86	Start EOS
1616	0	0.8	103	
1741	0	0	134	Stop for day
10/23 753	3	0.8	134	START EOS
858	3	1.0	179	
1007	2	1.0	267	
1124	3	1.2	352	
1215	3	2.0	425	~85 gal left
1318	0	0	510	EOS complete
1630	3	2.0	15007	10/24 Start chase
750	2	2.0	16761	10/25 ~900 left increased to 7 gpm
916	4	~~2.8~~ 3.0	16963	~700 left
1108	4	3.0	17270	450 left
1248	4	3.0	17620	~75 left
1316	—	—	17695	chase complete

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Injection Monitoring Form

Injection Well ID#: IW-44 A

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather: overcast

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 501

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1144	—	—	501	Start chase
1146	3	1.6	506	
1224	—	—	541	end chase
301	—	—	501	start EOS
~~302~~ 301				
~~332~~	~~2~~	~~4.4~~	~~584~~ AF	
354	0	~~.24~~ 2.4 AF	640	
411	0	~~.20~~ 2.0 AF	687	
502	0	0	719	Stop EOS for day
10/29 900	~~1~~ 0	~~.24~~ 0	~~743~~ AF	Start EOS
912	1	~~.24~~ 2.4 AF	743	
942	1	AF ~~[illegible]~~ 5.2	850	
1008	0	2.0	914	
2.1 1033	0	2.8	980	
1124	0	2.8	1075	
1213	0	2.8	1204	
100	0	0	1419	Stop EOS - 10gal over
10/30 1245	—	—	1419	start chase
1310	2	3.6	1506	
1610	5	1.5	1425	set for O/N chase
10/31 0845			3408.5	
952	2		3564	
1020	2		3632	

1115 — — B7 G7 end chase

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Injection Monitoring Form

Injection Well ID#: IW-4B

Date: 10/28/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 911

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1144	–	–	~~5~~ 911	Start chase
1146	4	1.0	913.5	
1237	–	–	971	Stop Chase
302	–	–	971	start EOS
302				
334	0	~~[illegible]~~ .4 AF	1001	
356	0	~~[illegible]~~ .4 AF	1012	
412	0	~~[illegible]~~ .8 AF	1013	
502	0	0	1022	Stop EOS for day
10/29 900				Start EOS
913	5	~~1.2~~ 1.2 AF	1034	
949	5	1.2	1068	
1009	0	2.0	1151	
1034	0	1.6	1190	
1125	0	1.6	1238	
1214	0	2.8	1332	
1232	0	0	1395	Stop EOS
10/30 1245	–	–	1395	start chase
1311	3	3.6	14~~6~~9.5	
1610	4	1.5	2017	set for O/N chase
0845			3334	
952	2		3552	
1020	2		3651	

6.4

1201	2	—	4030	
1212			4083	End chase

APPENDIX J

MONITORING WELL OBSERVATION FORMS DURING INJECTION

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Monitoring Well Observation Form During Injection

Monitoring Well ID#: MW-2

Date: 10/22/13 -

Project Name: Eaton Selma GW RAP Implementation

Weather: 65° Cloudy

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: -

Start Time: -

End Totalizer Reading: -

End Time: -

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
Begining (10/22)	10:30	—	6.65	CLEAR	26.3	5.72	80	91	
(10/23)	840	N/A	5.35	NO EOS-SEDIMENT	898	5.92	90	~~100~~ 31	
	916		5.07	"	187	5.53	100	79	
	1010		4.90	"	100.9	6.12	110	59	
	1158		3.38	CLOUDY-NO EOS	226	5.63	90	123	
	1309		UNABLE TO MONITOR WELL	"	193	5.75	80	80	
	1427		"	"	119	5.81	80	96	
	1540		"	"	60.1	5.85	90	61	
10/25	758		0.31	"	173	5.78	90	22	
	830	Unable to monitor due to H_2O coming out of well.							
10/28	1101		3.95	Cloudy	over	5.90	80	136	before Phase II CoBupH
	211		4.82	Cloudy	over	5.98	80	146	- after CoBupH completed
	1607		2.82	Cloudy	over	6.23	90	160	during EOS
10/29	0800		4.57	Milky	over	5.96	90	106	before EOS
	0954		0.50	"	over	6.19	120	46	during EOS
	1025		TOC	—	—	—	—	—	
	1320		TOC	—	—	—	—	—	
10/30	1341		TOC	—	—	—	—	—	during chase
10/31	1302		0.55	Milky / ~~H2O dropped 4 in after chase~~	over	7.12	140	63	during chase
				H_2O dropped 4 in after chase					
		↓							

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Monitoring Well Observation Form During Injection

Monitoring Well ID#: MW-8

Date: 10-22-13

Project Name: Eaton Selma GW RAP Implementation

Weather: 65 - Cloudy

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: X

Start Time: X

End Totalizer Reading:

End Time: X

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
	1122	—	6.75	clear	27.6	4.45	860	151	
	1149	31.5 NTU	5.96	"	45.9	4.49	840	124	
	1250	—	—	clear	34.8	4.50	830	131	
	1348	—	4.76	"	38.7	4.38	920	144	
	1500	—	—	"	39.1	4.75	870	91	WL Broken
10/25	1053	—	2.83	clear	30.0	4.70	550	145	
	1410		3.13	clear	20.4	4.69	490	191	before Phase II CoBuPh
10/28	1125		7.15	clear	13.1	4.56	500	204	
	239		7.15	clear	29.0	4.77	460	202	after CoBuPH complete
	1633		5.28	Slightly cloudy	106.8	4.79	470	210	After EOS
10/29	842		7.35	clear	15.0	4.59	501	147	
	1209		4.83	clear	30.0	5.06	460	124	
	1533		5.01	clear	23.2	4.94	420	130	
10/31	1227		2.38	clear	14.8	4.62	400	185	during chase

15061 → 15266

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Monitoring Well Observation Form During Injection

Monitoring Well ID#: MW-16
Date: 10/22/13
Project Name: Eaton Selma GW RAP Implementation
Weather: 65 - Cloudy
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: —
Start Time: —
End Time: —
End Totalizer Reading: —
End Time: —

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
(10/22) Baseline	1040	—	10.30	Clear	551	4.86	740	142	
(10/23)	847	N/A	9.04	Light Brown - no EOS	OOR	5.01	310	66	
	920		8.89	CLEAR	260	5.17	310	59	
	105		8.76	mostly CLEAR	58.5	5.47	280	77	
	1206		7.75	slightly white	1056	5.40	200	94	
	1302		UNABLE	"	OOR	5.33	180	97	
	1430		6.85	Slightly milkier	OOR	5.50	160	86	
	1546		UNABLE	MILKY	OOR	5.52	160	85	
10/25	804		4.21	"	OOR	6.24	150	38	
	1137		4.16	"	OOR	6.25	160	41	
	1433		4.12	"	OOR	6.27	160	139	
10/26	1133		10.41	Cloudy	over	5.61	180	160	before Phase II CoBuPh
	221		9.95	milky	over	6.31	210	152	after CoBuPH complete
	1615		8.36	" "	"	6.29	198	163	during EOS
10/29	0805		10.21	milky	1048	6.03	140	114	before EOS
	1000		7.21	" "	over	6.06	180	65	during EOS
	1312		6.45	" "	792	7.02	170	88	"
	1620		8.63	Cloudy	342	6.32	150	89	after EOS
10/30	1344		6.51	Cloudy	over	6.18	120	-14	during Chase
10/31	1250		4.98	milky	over	6.36	130	70	during Chase

Solutions
Industrial & Environmental Services

Monitoring Well Observation Form During Injection

Monitoring Well ID#: MW-17

Date: 10/22/13

Project Name: Eaton Selma GW RAP Implementation

Weather: 65-Cloudy

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
Baseline	1055	—	7.76	Clear	330	4.34	1110	16	
10/23	853	—		START EOS					
	902	—	6.99	Muddy from Bailer	<1000	4.20	1150	112	
	957	—	6.77	muddy from Bailer	<1000	4.36	1130	104	
	1137	—	6.21	Cloudy - natural	111	4.36	980	121	
	1223	—	5.80	cloudy - natural	86	4.54	1110	87	
	1330	—	5.76	cloudy - natural	78.9	4.60	1090	151	
	1415	—	5.71	Muddy - Bailer?	394	4.58	1080	143	
	1540	—	5.68	muddy Bailer	462	4.61	1090	140	
H2O chase	758	—	3.14	Clear	12	4.86	510	52	10/25
	1045	—	2.85	clear	8.54	4.88	540	85	
	1350	—	2.95	clear	11.9	506	460	129	chase complete in area
10/28	10:47		7.68	clear	3.21	5.06	510	177	before Phase II CoBupH
	228		7.8	clear	207	4.83	470	189	- after CoBupH complete
10/29	800		8.2	Clear	947	4.75	490	129	
	1237		5.4	Clear	8.18	541	410	115	- during EOS injection
	143		6.1	Clear	19.9	6.06	410	106	- " "
	430		6.6	Clear	26.7	5.17	420	114	- after EOS complete
1030	1355		5.72	Clear	10.5	~~5.72~~ 5.24	420	56	during chase
10/31	1317		3.60	Clear	12.8	5.81	380	91	during chase

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Monitoring Well Observation Form During Injection

Monitoring Well ID#: MW-20

Date: 10/22/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
Base Line	1107		7.58	Clear	17.3	4.75	1171	164	
10/23	1139		6.13	turbid	55.0	4.38	1180	132	
	1241			murky	273	4.38	1291	130	
	1342	~	6.3	clear	70.8	4.46	1240	158	w/ meter not good
	1504	–	–	"	65.6	4.60	1100	130	w/ Broke
10/25	1047		2.92	murky	491	4.62	440	126	
	1405		3.50	clear	19.8	4.68	390.	200	
10/28	1113		8.68	murky	134	4.65	330	183	Before Phase II cobalt
	232		8.2	clear	147	4.73	370	193	- after cobalt complete
	1620		5.83	Very cloudy	over	4.83	310	196	- Eosinesulfate
10/29	832		8.4	slightly murky	18.6	4.65	310	131	
	1128		5.56	clear	69.8	4.95	260	99	
	1528		5.96	clear	14.6	5.16	260	93	
10/30	1406		5.57	Clear	6.76	5.12	310	71	during Chase
10/31	~~[illegible]~~		~~2.34~~	~~Clear~~	~~14.8~~	~~4.62~~	~~4[illegible]~~	~~85~~	during Chase
	1241		3.18	Clear	11.9	5.44	170	78	after Chase