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August 15, 2016

Mr. George Adams
NCDEQ / DWM / Superfund Section
Mooresville Regional Office
610 East Center Avenue, Ste. 301
Mooresville, North Carolina 28115

RE: Phase IV Remedial Investigation Work Plan
American Truetzschler
12300 Moores Chapel Road
Charlotte, North Carolina
NCDEQ IHSB No. **NONCD0001257**
EXCEL No. **201008**

Dear Mr. Adams:

On behalf of American Truetzschler, Incorporated (Truetzschler), Excel Civil & Environmental Associates, PLLC (Excel) is pleased to submit a copy of the requested Phase IV Remedial Investigation Work Plan for the above referenced site for your review and approval.

If you have any questions after review of this report, please feel free to contact me at (704) 853-0800 or by email at mstanforth@excelengr.com.

Sincerely yours,

EXCEL CIVIL & ENVIRONMENTAL ASSOCIATES, PLLC

Michael T. Stanforth, P.E.
Project Engineer

p.c Mr. John Guglielmetti – American Truetzschler, Charlotte-NC

PHASE IV REMEDIAL INVESTIGATION WORK PLAN

AMERICAN TRUETZSCHLER

TRÜTZSCHLER

12300 MOORES CHAPEL ROAD
CHARLOTTE, MECKLENBURG COUNTY, NORTH CAROLINA

NCDEQ IHSB NO. NONCD0001257
EXCEL PROJECT NO. 201008

LATITUDE 35° 15' 32.62" / LONGITUDE – 81° 00' 07.31"

Date Submitted

AUGUST 15, 2016

Prepared For

MR. JOHN GUGLIELMETTI
AMERICAN TRUETZSCHLER, INCORPORATED
POST OFFICE BOX 669228
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Prepared By

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08/15/16

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Principal Engineer

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CERTIFICATIONS

REMEDIATNG PARTY

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

_____
American Truetzschler, Incorporated

NOTARIZATION
STATE OF NORTH CAROLINA
MECKLENBURG COUNTY

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

WITNESS my hand and official seal this _____ day of _____, _____.

_____
Notary Public (signature)

My commission expires:_____ (OFFICIAL SEAL)

CERTIFICATIONS (CONTINUED)

CONSULTANT

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

Michael T. Stanforth

Michael T. Stanforth, P.E., DEE
Excel Civil & Environmental Associates, PLLC

NOTARIZATION
STATE OF NORTH CAROLINA
GASTON COUNTY

I Donna E. Farris a Notary Public of said County and State, do hereby certify that Michael T. Stanforth did personally appear and sign before me this day, produced proper identification in the form of NC DL was duly sworn or affirmed, and declared that, he or she is the duly authorized representative of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this certification in my presence.

WITNESS my hand and official seal this 15th day of August, 2016.

Donna E. Farris
Notary Public (signature)

My commission expires: 5/4/2018 (OFFICIAL SEAL)

1.0 INTRODUCTION AND SITE INFORMATION

This report describes the proposed Phase IV Remedial Investigation (RI) activities as requested by Mr. George Adams of the Mooresville Regional Office (MRO) of the North Carolina Department of Environmental Quality (NCDEQ), Division of Waste Management (DWM), Superfund Section, Inactive Hazardous Sites Branch (IHSB) in correspondence dated May 19, 2015. This report identifies work completed to-date as per the approved Phase III Remedial Investigation Work Plan (RIWP) and requested information is being provided by American Truetzschler (Truetzschler), as requested to follow the recently submitted and approved "Phase III Remedial Investigation Progress Report" dated March 2016 and completed for the Truetzschler facility in Charlotte, North Carolina.

This report describes current assessment and remedial activities completed at the American Truetzschler (Truetzschler) facility (Site) in Charlotte, North Carolina subsequent to the aforementioned report. The following tasks were completed by Excel during the months of April 2016 through July 2016:

- Continued operation of the groundwater remediation system, monthly influent/effluent sampling, and weekly site checks;
- Continued operation and maintenance of the GAC units installed at supply well WSW-37 located at 10335 Harbor Drive and at WSW-41 located at the subject site, 12300 Moores Chapel Road;
- Sampling of select water supply wells; and
- Investigation of former treatment well UVB-400 as a potential option for groundwater sampling within the suspected source area.

The primary objectives of the proposed Phase IV Remedial Investigation are to: (a) horizontally delineate dissolved phase constituents of concern (COCs) in groundwater; (b) provide municipal water supply to the Harbor House Community based on the results of the WSW-43 pilot test; (c) provide a schedule for continued monitoring and maintenance of the onsite groundwater treatment system; and (d) establish a routine schedule and scope-of-work for sampling of the existing wells and select private water supply wells.

1.1 Site Description and Background Information

The property, which consists of approximately 37.65-acres, is located at 12300 Moores Chapel Road, Charlotte, North Carolina (refer to **Figure 1**). The facility is located on the west side of Moores Chapel Road, south of the intersection of Moores Chapel Road and Heavy Equipment School Road, and north of the intersection of Moores Chapel Road and Interstate I-85. The area surrounding the facility is a mixture of undeveloped properties located to the west and north with industrial and residential properties located to the northeast and east (refer to **Figure 2**). The facility is involved in the production of textile manufacturing machinery and has undergone several expansions with building square footage totaling approximately 139,900-square feet (±).

A site survey plat [.0306(g)(4)] of the property that was prepared by James Mauney & Associates, P.A., a professional land surveyor, is provided in previous reports prepared by Excel. The plat

includes scale, benchmarks, north arrow, locations of property boundaries, buildings, structures, perennial and non-perennial surface water features, drainage ditches, dense vegetation, known and suspected spill or disposal areas, underground utilities, storage vessels, existing on-site wells and identification of adjacent property owners and land usage.

Truetzschler began manufacturing operations at this facility in 1974. Prior to this date, the property appeared to be undeveloped and utilized for agricultural purposes. Former manufacturing operations at the facility included a painting operation, wet and dry coating, and an associated solvent recovery used to recover MEK and waste (waste paint) reduction. Current onsite operations utilize one of two hazardous waste satellite accumulation areas which are located in the maintenance area and the wiring department. Waste stored within these areas consists of waste aerosols. The facility currently maintains a hazardous waste storage building located on the southeastern corner of the manufacturing building which is utilized for the storage of waste generated from the onsite painting process.

Assessment activities began following sampling of the onsite water supply well by the Mecklenburg County Department of Environmental Protection (MCDEP) in January 1988. Samples collected by MCDEP revealed the presence of 1,1,1-Trichloroethane (1,1,1-TCA) and 1,1-Dichloroethene (1,1-DCE) at concentrations of 1,707-parts per billion (ppb) and 1,176-ppb, respectively. As part of Initial Site Assessment activities conducted by Westinghouse Environmental Services (Westinghouse) in October 1988, a series of soil borings and monitoring wells were installed which identified minor levels of constituents in the soil and groundwater at the facility. Subsequent investigations were conducted to delineate the extent of contamination and remedial measures for recovery and treatment of impacted groundwater were implemented.

1.2 Local and Hydrogeological Conditions

As mentioned in the previous reports, Excel obtained information concerning the geologic and hydrogeologic conditions from various assessment reports completed by others for the property. Regarding a Conceptual Site Model, the Site lies within the Charlotte Belt which stretches northeast-southwest across the southern central section of the state. The area in the immediate vicinity of the Site is underlain by foliated rock consisting of plagioclase, quartz, biotite, hornblende and epidote. Saprolite occurs from approximately 96-feet below grade level (fbgl) to approximately 143-fbgl beneath the Site. The saprolite consists of clays, silty clays, silts, and sandy silts. The saprolite overlies metamorphosed quartz diorite bedrock, consisting of an upper weathered zone ranging from two to eight-foot thickness and the lower fracture-bearing diorite bedrock.

The hydraulic gradient of the saprolite and bedrock units were estimated to be 0.028-ft/ft and 0.061-ft/ft, respectively and the hydraulic conductivity of the bedrock aquifer and saprolite were estimated to be approximately 5-ft/day. Well yields are approximately 10 to 12-gpm with a transmissivity of 200 to 400-ft/day. The direction of groundwater flow at the property under recently observed static conditions is predominantly towards the west-southwest, which is towards the Catawba River and depicted on **Figures 6** and **7**. During system operation, a significant cone of depression influences groundwater to flow towards recovery well RW-1.

1.3 Inventory of Wells, Springs, and Surface Water Intakes

The site is located in the western portion of Mecklenburg County, near the Catawba River. Water supply in the immediate area around the site is obtained from potable wells. Based on records previously obtained from the Char-Meck Utility Department, the site and surrounding areas are not currently serviced by the municipal water supply system. A review of the information indicates that the nearest existing water supply system ends on Performance Road approximately 600-feet east of Moores Chapel Road. In June-July 2011, Excel completed an inventory of water supply wells, springs and surface water intakes used as sources of potable water within a ½-mile radius of the center of the site. No springs could be identified; however, nine surface water features were identified along with forty-nine water supply wells with private, transient and community uses. **Figure 5** illustrates the water supply well locations found to exist within ½-mile of the source area. **Table 5** provides the property identification number, address, well owner information, and comments regarding the well. In addition, residences reportedly connected to the Harbor House water system (62 connections) were identified with addresses and are also presented in **Table 5**. The closest community supply well (Harbor House No. 2 also identified as WSW-43) is located approximately 765-feet to the south-southwest of the source area.

According to the NCDEQ Water Supply Section, there are no designated wellhead protection areas within the immediate area of the site. The Char-Meck Utility Department does not reportedly obtain water from supply wells. The utility water supply source is from Mountain Island Lake and Lake Norman. Nine surface water bodies in the study area were identified from a review of aerial photographs. Four surface water features were identified approximately 1,100-feet to the north of the suspect release site. An additional surface water feature was identified to the east at approximately 1,400-feet off of Performance Road. An intermittent stream was identified from the ponds to the north of the site and appears to flow to the west towards the Catawba River. Several intermittent streams are located to the south and southwest of the site, which appear to flow to the Catawba River, located approximately 2,900-feet to the southwest of the site.

2.0 REMEDIATION SYSTEM OPERATION

The existing groundwater remediation system is checked on a weekly basis which includes recording flow-meter readings, monthly and quarterly sampling as per the current NPDES permit and ongoing maintenance. The pump-and-treat system receives recovered groundwater from one recovery well (RW-1) via an electric submersible pump which is then processed through a particulate filter, a shallow tray airstripper and a compost trickling filter. The system recovered and treated a total of approximately 1,337,690-gallons of groundwater from April 2016 to July 2016 and a total of approximately 10,009,566-gallons since Excel's involvement with the project beginning in June 2011.

Excel collects monthly effluent samples for select volatile organics and chronic toxicity analysis on a quarterly basis. Based on the effluent sampling event completed in July 2016, the system is currently in compliance with the NPDES permit. Influent samples are also collected on a monthly basis and laboratory analyzed for the recommended lists of COCs and 1,4-dioxane to obtain an overall system efficiency rating. Review of the influent versus effluent concentrations from April 2016 to July 2016 indicates a system efficiency of 98.6% for removal of 1,1-dichlorethene and

76.2% for removal of tetrachloroethene to levels below the applicable NPDES permit limits (refer to **Table 4** for a summary of system evaluation information).

To ensure proper operation of the remediation system, weekly visits are conducted to perform routine inspections and maintenance and are summarized below:

April 2016: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs.

May 2016: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs and chronic toxicity. The system was down temporarily from May 24 – 25. The sump was drained, the system reset, and normal operation was resumed.

June 2016: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs.

July 2016: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs.

3.0 WATER SUPPLY WELL STATUS AND SAMPLING SUMMARY

Water supply in the immediate area around the site is obtained from potable wells. Based on records obtained from the Char-Meck Utility Department, the site and surrounding area are not currently serviced by a municipal water supply system. A review of the information indicates that the nearest existing water supply system ends on Performance Road approximately 600-feet east of Moores Chapel Road.

Excel completed an inventory of water supply wells, springs and surface water intakes used as sources of potable water within a ½-mile radius of the center of the site. No springs could be identified; however, nine surface water features were identified along with forty-nine water supply wells with private, transient and community uses. The results of the locations are detailed in **Table 5** and the results of the water well sampling have been documented in previous reports and are provided in **Tables 2** and **7** of this report.

As requested by the IHSB for the completion of this report, Excel collected groundwater samples from private water supply wells WSW-17, 32, 33, 35, 36, 37 and 41. A total of seven water samples were collected from the private supply wells during the reporting period as requested for the completion of this report. Samples were analyzed for the recommended list of COCs by EPA Method 8260 and 8260 SIM for low level 1,4-dioxane.

On November 26, 2013, a GAC unit was installed in-line with supply well WSW-37 located at

10335 Harbor Drive. Excel collected influent and effluent samples in June 2015 and December 2015 for the recommended list of COCs by EPA Method 8260 and 8260 SIM for low level 1,4-dioxane. Laboratory results indicated a treatment efficiency of 97.8% and 98.8% for removal of 1,1-dichloroethene in June 2015 and December 2015, respectively (refer to **Table 2** for a summary of laboratory results). An effluent sample was also collected from WSW-37 on June 7, 2016 which indicated that the GAC unit is effectively treating the groundwater.

WSW-41 is currently utilized for process water at the facility and is not used for drinking purposes. The results of the June 2016 sampling event indicated that all constituents at WSW-41 are currently below the NCAC 2L standards (2L) and that the GAC unit is effectively removing constituents from the groundwater.

3.1 Water Supply Well Analytical Summary

Review of the laboratory data for water supply well sampling activities conducted from April 2016 to July 2016 indicated that all constituents were found to be below the applicable NCAC 2L standards for all sampled water supply wells.

A summary of previous analytical data for water supply wells sampled in May 2015, June 2015, December 2015, and March 2016 are provided as follows:

- **1,1-dichloroethene** was found to exceed 2L at a concentration of 32.8-ppb at the location of WSW-41 (December) and at concentrations ranging from 8.68-ppb to 16-ppb at the location of WSW-37-INF (influent only);
- **1,4-dioxane** was found to exceed 2L at a concentration of 22.8-ppb at the location of WSW-41 (December); after replacing the activated carbon in the treatment system, subsequent sampling indicated results below 2L;
- **tetrachloroethene** was found to exceed 2L at a concentration of 1.71-ppb at the location of WSW-41 (December); after replacing the activated carbon in the treatment system, subsequent sampling indicated results below 2L; and
- and **1,1,2-trichloroethane** was found to exceed 2L at a concentration of 0.681-ppb at the location of WSW-41 (December); after replacing the activated carbon in the treatment system, subsequent sampling indicated results below 2L.

A summary of previous samples collected from the untreated influent water stream in water supply well WSW-43 sampled from September to November 2014 is provided as follows:

- **1,1-dichloroethene** was found to exceed 2L at concentrations ranging from 7.6-ppb to 17-ppb;
- **1,4-dioxane** was found to exceed 2L at concentrations ranging from 9.1-ppb to 13-ppb.

Based on a review of current and historical analytical data, it appears that all water supply wells currently contain constituents below the applicable 2L standard, with the exception of WSW-37-INF and WSW-43. However, effluent samples collected from WSW-37 indicate that the

GAC/treatment units is effectively removing constituents to levels below the 2L standard. Alternative water supplies are currently underway for WSW-43.

3.2 WSW-43 Treatment Plan and Implementation

As a follow up of the finding of 1,4-dixoane in the public supply well WSW-43 effluent in December 2012, monthly effluent samples for 1,4-dioxane were collected from the effluent following GAC rebedding in January 2013. Monthly effluent samples were found to be below method detection limits from January 2013 to April 2013 with a second breakthrough finding in May 2013. The well has remained offline since that time and as requested and approved by Carolina Water Service, Incorporated, Excel completed a "Pilot Test Study Plan" in October 2013 for approval by the NCDEQ, Public Water Supply Section.

The pilot test, which included combinations of advanced oxidation processes ozone, UV light chlorination and activated carbon was operated from May to November 2014. Based on a review of the results of the sampling conducted during the pilot testing, it appears that a combination of advanced oxidation processes extend the life of the activated carbon for treatment of 1,4 dioxane. Analytical data is provided in **Table 6**.

Excel recommends completion of the municipal water supply line extension to service the Harbor House Community and surrounding properties. Although the pilot test demonstrated effective treatment at WSW-43, groundwater treatment is not feasible for a primary water supply and should remain as a secondary effort for future use. Municipal water supply to the area will provide a sustainable approach in providing drinking water to the surrounding properties. Interested parties are currently working with the Mecklenburg utility authority to complete the extension of municipal water supply to this area.

4.0 MONITORING WELL STATUS AND SAMPLING SUMMARY

No monitoring wells were sampled during this reporting period. However, all available monitoring wells at the site were sampled by Excel in December 2013. Additionally, monitoring wells MW-22, MW-23, and MW-24 were sampled in June 2014, March 2015, and February 2016, respectively. Information obtained from previous reports and by Excel during sampling events regarding the status of existing monitoring wells is summarized on **Table 1** along with the most recent depth to water measurements and calculated water table elevations. Based on these investigations, a brief description of the status of existing monitoring wells is summarized below:

- Active monitoring/recovery wells (wells available for sampling) consist of MW-1D, MW-1V, MW-2D, MW-3V, MW-4S, MW-4D, MW-5D, MW-6S, MW-6D, MW-8, MW-9, MW-10, MW-22, MW-23, MW-24, RW-1, and UVB-400;
- Damaged/abandoned monitoring wells consist of MW-2V, MW-3S, MW-3D, MW-5, MW-18, MW-19, MW-20 and MW-21;
- Monitoring wells found to be dry or containing an insufficient volume of water for sampling consist of MW-1S, MW-2S, MW-5S, MW-7 and MW-7S.

Groundwater Level Measurements and LNAPL

During the previous sampling events (December 2013, June 2014 [MW-22], March 2015 [MW-23], and February 2016 [MW-24]), static water levels were measured prior to sampling. Measurements were obtained using a Heron® dipper-T Water Level Meter. The probe and tape were thoroughly decontaminated after each use by immersing and washing the tape in a solution of potable water and Liqui-nox®, followed by rinsing with distilled water. A summary of the most recent water levels are shown in **Table 1**.

Groundwater Purging and Sampling

Prior to sampling, the static water level was measured in all monitoring wells using an electronic water-level meter. This information was used to determine groundwater levels and to calculate the purge volume for wells scheduled for sampling.

No monitoring wells were sampled during this reporting period, however, the monitoring wells sampled during previous events were purged prior to sample collection to ensure that a representative sample was obtained. A Grundfos® Redi-Flow 2 stainless-steel variable speed pump with dedicated 3/8-inch polyethylene tubing was used to purge the wells by recovering water from mid-screen depth within each well. Prior to collecting each groundwater sample, the following field parameters were measured: dissolved oxygen, oxidation reduction potential, pH, temperature, specific conductivity and turbidity. Purging continued until one well volume was removed, the well was purged dry, or until the relevant parameters stabilized for at least three consecutive readings. Field parameter readings had to fall within the following limits: (±) 10% for turbidity, (±) 5% microsiemens per centimeter (µS/cm), and (±) 0.1 pH units (groundwater sampling forms from the previous reporting period are provided in **Appendix B**).

During previous sampling events, samples were collected following purging activities and placed in laboratory supplied containers and analyzed for select volatile organic compounds by EPA Method 8260B and 1,4-Dioxane by EPA Method 8260B SIM. All groundwater samples collected for analysis were transported to ESC Lab Sciences (ESC) located in Mt. Juliet, Tennessee. ESC is certified under 15A NCAC Subchapter 2H .0800 to perform the analyses required for this project. Laboratory analytical methods followed those as specified in the most recent NCDEQ, IHSB guidelines and, in general, followed the most recent version of USEPA SW-846 methods, combined with ESC's Standard Operating Procedures.

4.1 Offsite Monitoring Well Installation

No off-site monitoring wells were installed during this reporting period. Well construction details for previously installed monitoring wells are listed in **Table 1**. Well construction details for wells installed during the previous reporting period are listed in **Appendix C**.

4.2 Offsite Right-of-Entry

No new right of entry agreements were entered during this reporting period. During the previous reporting period, a right of entry agreement (ROEA) was entered into with Mike Currin (12546 Moores Chapel Road). Following completion of the ROEA, Excel obtained the monitoring

well installation permit from Mecklenburg County Environmental Health (refer to **Appendix D**).

4.3 Groundwater Analytical Summary

No monitoring wells were sampled during this reporting period. However, a review of the December 2013, June 2014, March 2015, and February 2016 laboratory data indicates that current constituents which exceeded the NCAC 2L Drinking Water Standards included 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, 1,4-dioxane, tetrachloroethene, 1,1,2-trichloroethane, trichloroethene and vinyl chloride. The exceedances represent nine of the wells sampled, (refer to **Table 2** for the most current groundwater analytical data).

A summary of previous analytical data for monitoring wells sampled from December 2013 to July 2016 is provided as follows:

- **1,1-dichloroethane**, **trichloroethene** and **vinyl chloride** were found to exceed 2L at concentrations of 12-ppb, 8.3-ppb and 2-ppb, respectively at the location of well MW-1V;
- **1,2-dichloroethane** was found to exceed 2L at a concentration of 2.7-ppb and 0.61-ppb at the location of monitoring wells MW-1V and MW-5D, respectively;
- **1,1-dichloroethene** was found to exceed 2L at a concentration of 340-ppb, 11-ppb, 11-ppb, 43-ppb, 8.1-ppb and 45-ppb at the location of monitoring wells MW-1V, MW-2D, MW-3V, MW-5D, MW-22 and recovery well RW-1, respectively;
- **1,4-dioxane** was found to exceed 2L at a concentration of 3.5-ppb, 270-ppb, 9.1-ppb, 5.5-ppb, 28-ppb, 18-ppb, 6-ppb, 9.2-ppb and 39-ppb at the location of monitoring wells MW-1D, MW-1V, MW-2D, MW-3V, MW-5D, MW-6S, MW-9, MW-22 and recovery well RW-1, respectively;
- **tetrachloroethene** was found to exceed 2L at a concentration of 20-ppb, 1.8-ppb and 2.4-ppb at the location of monitoring wells MW-1V and MW-5D and recovery well RW-1, respectively;
- and **1,1,2-trichloroethene** was found to exceed 2L at a concentration of 0.79-ppb at the location of monitoring well MW-5D.

Based on the analytical data from the monitoring well sampling activities, various wells continue to show elevated levels of constituents which exceed the NCAC 2L Drinking Water Standards as summarized in **Table 3** and as depicted on **Figures 8** thru **10**.

4.4 Management of Purge and Decontamination Water

Investigation-derived residues included contaminated well purge water. When applicable, the well purge water was treated onsite through the existing Interim Remediation System.

4.5 Quality Assurance and Quality Control Procedures

Field quality assurance and quality control (QA/QC) procedures followed during the sampling events were generally consistent with those described in previous work plans, including the

Sampling and Analytical Plan and the Quality Assurance Project Plan. These procedures, in turn, reflect those described in the EPA Region 4 document titled "The Field Branches Quality System and Technical Procedures" (EPA, 2009). Selected field QA/QC procedures are summarized below:

- QA/QC samples, including duplicate samples, field blanks and trip blanks were prepared and submitted to the laboratory to help assess sampling procedures.
- Samples for VOC analysis were collected into separate sample containers without mixing.
- Samples were assigned a unique identifier code to trace samples from collection through laboratory analysis and reporting.
- Samples selected for analysis were placed in the appropriate laboratory containers, labeled with a unique identification number on a label securely fixed to the container, and maintained in iced coolers at approximately four degrees centigrade pending transfer to the laboratory. An entry for each sample was made on the chain-of-custody form, which was signed by the field sampling personnel at the time of the sample collection. Sample coolers were kept in the possession of sampling personnel under chain-of-custody procedures. Upon transfer to the laboratory, the custody forms were signed over in accordance with chain-of-custody procedures, refer to **Appendix A**.

Laboratory procedures implemented by ESC were consistent with SW-846 and other applicable EPA methodologies, and with procedures detailed in the project Quality Assurance Project Plan.

5.0 PROPOSED METHODS OF PHASE IV INVESTIGATION

The ongoing monitoring activities conducted at the site continue to indicate elevated levels of volatile organic compounds within both the surficial and deep monitoring wells located within the vicinity of Trutzschler's production well and spanning south-southwest across I-85.

5.1 Field and Laboratory Procedures

Standard operating procedures (SOPs) for field sampling procedures are outlined in the approved "Phase II RI Work Plan" completed in January 2014. Procedures associated with drilling operations, monitoring well installation and development, aquifer testing, groundwater sampling, sample control and documentation and sample packing and shipping will be completed as detailed in the approved "Phase II RI Work Plan" completed in January 2014.

5.2 Quality Assurance / Quality Control Procedures

Field quality assurance and quality control (QA/QC) procedures followed during the Phase IV RI will be consistent with those described in the previous RI Work Plan. These procedures incorporate the EPA Region 4, Field Branches Quality System and Technical Procedures (EPA, 2009). Selected field QA/QC procedures are summarized below:

- QA/QC samples, including duplicate samples, field and trip blanks, will be prepared and submitted to the laboratory to help assess sampling procedures as necessary;

- Field sampling procedures will be consistent with the protocols outlined in Appendix D of the approved "Phase II RI Work Plan" completed in January 2014;
- Field decontamination procedures were consistent with protocols outlined in Appendix G of the approved "Phase II RI Work Plan" completed in January 2014;
- Prior to the start of any drilling and sampling activities, drilling locations will be marked in the field. The locations of underground utilities in the vicinity of the drilling locations will be reviewed to verify the absence of conflicts. Drilling and sampling equipment will be decontaminated before sampling and between sampling locations. Equipment used to collect groundwater samples will be dedicated and disposed of following each use;
- Sampling locations will be marked in the field by paint or staking for surveying;
- Samples will be assigned a unique identifier code to track samples from collection through laboratory analysis and reporting;
- Samples selected for analysis will be placed in the appropriate laboratory provided containers, labeled with a unique identification number on a label securely fixed to the container and transferred to the laboratory by courier. An entry for each sample will be made on the chain-of custody form, which was signed by the field sampling personnel at the time of the sample collection. Sample shipping containers will be kept in the possession of sampling personnel under chain of custody procedures. Upon transfer to the laboratory representative, the custody forms will be signed over in accordance with chain of custody procedures;
- Laboratory procedures implemented by ESC Lab Sciences (ESC) will be consistent with REC Guidance, 15A NCAC 2H .0800, or a contract laboratory under the United States Environmental Protection Agency Contract Laboratory Program and with procedures detailed in the project Quality Assurance Project Plan;
- The quality assurance program established for the Phase I RI was designed so that the data produced during the investigation were of known precision, accuracy and completeness for its intended use. The data quality evaluation included the following activities for the data obtained during the Remedial Investigation:
    - ✓ Review of chain-of-custody (COC) documentation and sample condition upon receipt at the laboratory;
    - ✓ Evaluation of analytical holding times;
    - ✓ Evaluation of the reported analyses to confirm that appropriate USEPA-approved analytical methods were performed;
    - ✓ Evaluation of the reporting limits (RLs);
    - ✓ Assessment of analytical accuracy and laboratory performance criteria (laboratory control sample recoveries, surrogates and matrix spike/matrix spike duplicate recoveries);
    - ✓ and assessment of potential field and/or laboratory contamination (method blank, field blank, and trip blank, as applicable). Standard Operating Procedures

for Decontamination are provided in Appendix E of the approved "Phase II RI Work Plan" completed in January 2014.

5.3 Proposed Analytical Parameters / Methods

All additional groundwater samples collected as part of the Phase IV RI will be analyzed by EPA Method 8260B to include the following list of contaminants of concern (COC):

Acetone	1,1-Dichloroethene	Tetrachloroethene
Benzene	cis-1,2-Dichloroethene	1,1,1-Trichloroethane
Carbon Tetrachloride	trans-1,2-Dichloroethene	1,1,2-Trichloroethane
Chlorobenzene	1,2-Dichloropropane	Trichloroethene
Chloroform	1,4-Dioxane*	Trichlorofluoromethane
Chloroethane	Ethylbenzene	Toluene
Chloromethane	Ethylene Dibromide	Vinyl Chloride
1,1-Dichloroethane	Methylene Chloride	(total) Xylenes
1,2-Dichloroethane		

** - 1, 4-Dioxane to be analyzed with a SIM detector to achieve desired detection limits.*

Excel contacted ESC to discuss the required quantitation limits presented in the VOC TCL; ESC verified that it can complete the requirements for the contract laboratory analysis.

5.4 Contact Information

Consultant:

Excel Environmental Associates, PLLC
625 Huntsman Court, Gastonia, NC 28054
Telephone: (704) 853–0800
Contact: Mike Stanforth, PE

Laboratory:

ESC Lab Sciences
12065 Lebanon Road, Mt. Juliet, TN 37122
Telephone: (800) 767-5859
Contact: Jimmy Hunt, PM
State Laboratory Certification No. **375**

5.5 Decontamination Procedures

The procedures that will be implemented for decontamination during assessment activities at the subject site are described in Appendix E of the approved "Phase II RI Work Plan" completed in January 2014. These procedures include sampling equipment decontamination procedures, personnel decontamination, and a required personal protection equipment level of "D".

Excel developed a site specific Community Health and Safety Plan (HASP) for the previous remedial investigation associated with the subject site. The plan is intended to provide guidance for the protection of health and safety of the personnel conducting the field investigation as well as the surrounding community.

5.6 Project Schedule

Upon approval of any further ROEAs issued as necessary, proposed assessment activities will be initiated as approved by AT. The field assessment phase will be completed within 60 days of the approved access. The Phase IV RI Report will be completed within 90 days of the start of field

activities. Further assessment, if warranted, will be based on the findings of the assessment described in the proposed Phase IV RI Work Plan.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the review of information in this report and previous reports completed by Excel and other consultants for the subject site, we recommend the following ongoing activities be conducted:

- We recommend that monitoring well MW-7 and MW-2V be properly abandoned as per the applicable NCDEQ guidelines since the wells have historically been observed to be dry or are damaged and no longer accessible;
- We recommend continued operation of the groundwater remediation system. Based on analytical data obtained from recovery well RW-1 and groundwater table contour maps, the system is proving effective at recovery of dissolved phase contaminants and mitigation of remaining constituents from migrating offsite;
- We recommend continuing efforts to provide municipal water supply to the surrounding properties;
- We recommend the installation of one on-site monitoring well (designated MW-25 in **Table 8**) to replace MW-7. The new well will be installed adjacent to MW-7 to assist with groundwater delineation at the subject property;
- We recommend semi-annual sampling of select water supply wells, and annual sampling of all available monitoring wells as defined in **Table 8**;
- We recommend the addition of former treatment well “UVB 400” into the annual sampling program. Both shallow and deep intervals of the UVB system should be sampled, as available; and
- We recommend continued operation and maintenance of the GAC unit installed at supply well WSW-37 and WSW-41. Excel will analyze both influent and effluent samples for the recommended COC list by EPA Method 8260B and low level 1,4-dioxane by EPA Method 8260B SIM on a directed basis.

Based on the information in this report, no additional conclusions or recommendations are provided at this time.

7.0 LIMITATIONS

This report is based on a limited number of soil and/or groundwater and/or air samples and chemical analyses. The conclusions presented in this report are based only on the observation made during this investigation and on data provided by others. The report presents a description of the subsurface conditions observed at each boring location during this investigation. Subsurface conditions may vary significantly with time, particularly with respect to groundwater elevations and quality. Conclusions and recommendations set forth herein are applicable only to the observations, facts and conditions described at the time of this report.

In performing its professional services, Excel uses that degree of care and skill exercised under similar circumstances by members of the environmental profession practicing at the same or similar locality under similar conditions. The standard of care shall be judged exclusively as of the time these services are rendered and not according to later standards. Excel makes no express or implied warranty beyond its conformance to this standard. Excel shall not be responsible for conditions or consequences arising from the relevant facts that were concealed, withheld or not fully disclosed for this report. Excel believes that all information contained in this report is factual, but no guarantee is made or implied.

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Table 1 - Monitoring Well Construction Data
American Truetzschler Facility
Charlotte, North Carolina

Well ID	Date Installed	Total Depth	Screen Interval	Well Diameter	TOC	Aquifer System*	Dec-2013 DTW	Dec-2013 WTE	Northing	Easting
MW-1S	1-Mar-92	50.0	30.0 – 50.0	2”	199.10	Surficial	DRY		555214.19	1402404.67
MW-1D	1-Aug-92	180.0	NDA	2”	198.34	Bedrock	70.30	128.04	555197.55	1402416.43
MW-1V	NDA	160.0	NDA	4”	198.33	Bedrock	61.90	136.43	555203.07	1402407.24
MW-2S	1-Mar-92	40.0	20.0 – 40.0	2”	195.74	Surficial	DRY		555149.77	1402380.91
MW-2D	1-Mar-92	147.0	142.0 – 147.0	2”	196.31	Bedrock	68.63	127.68	555151.30	1402393.79
MW-2V	NDA	215.0	NDA	4”	171.29	Transitional	DAMAGED, INACCESSIBLE**		554959.37	1402378.64
MW-3S	1-Mar-92	50.0	30.0 – 50.0	2”	201.18	N/A	ABANDONED JUNE 1996			
MW-3D	1-Mar-92	162.0	147.0 – 162.0	2”	200.46	N/A	ABANDONED JUNE 1996			
MW-3V	NDA	195.0	NDA	4”	164.59	Transitional	30.44	134.15	554980.79	1402030.76
MW-4S	1-Mar-92	50.0	30.0 – 50.0	2”	201.41	Surficial	47.46	153.95	555321.78	1402533.49
MW-4D	1-Mar-92	112.0	106.0 – 112.0	2”	201.75	Transitional	47.72	154.03	555331.78	1402534.24
MW-5	1-Aug-92	85.0	65.0 – 85.0	2”	195.06	Surficial	NOT LOCATED			
MW-5S	1-Aug-92	40.0	20.0 – 40.0	2”	195.11	Surficial	DRY		555136.13	1402254.52
MW-5D	1-Aug-92	115.0	110.0 – 115.0	2”	195.71	Transitional	61.52	134.19	555139.41	1402238.31
MW-6S	1-Aug-92	40.0	20.0 – 40.0	2”	195.24	Surficial	35.87	159.37	555128.04	1402464.27
MW-6D	1-Aug-92	131.0	126.0 – 131.0	2”	194.64	Bedrock	52.50	142.14	555123.73	1402455.07
MW-7	1-Aug-95	50.0	40.0 – 50.0	2”	197.59	Surficial	DRY		555261.74	1402000.69
MW-7S	1-Aug-92	41.0	21.0 – 41.0	2”	211.73	Surficial	40.34	171.39	555280.87	1402872.44
MW-8	Sep-95 - Oct-95	155.0	135.0 – 155.0	4”	161.10	Transitional	28.24	132.86	554997.14	1401816.59
MW-9	Sep-95 - Oct-95	30.0	15.0 – 30.0	2”	169.23	Surficial	6.76	162.47	554965.68	1402258.06
MW-10	Sep-95 - Oct-95	185.0	160.0 – 185.0	4”	178.33	Transitional	33.92	144.41	554932.14	1402664.43
MW-18	NDA	83.5	78.5 – 83.5	NDA	NDA	N/A	NOT LOCATED			
MW-19	NDA	35.0	25.5 – 35.5	NDA	NDA	N/A	NOT LOCATED			
MW-20	NDA	136.0	126.0 – 136.0	NDA	NDA	N/A	NOT LOCATED			
MW-21	NDA	35.0	NDA	NDA	NDA	N/A	NOT LOCATED			
MW-22	17-Jun-14	100.0	95.0 - 100.0	2"	NDA	Bedrock	52.82***	--	--	--
MW-23	27-Mar-15	135.0	125.0 - 135.0	2"	NDA	Bedrock	20.78****	--	--	--
MW-24	3-Feb-16	140.0	130.0 - 140.0	2"	NDA	Bedrock	24.08*****	--	--	--
PW-1	NDA	NDA	NDA	4”	NDA	Transitional	INACCESSIBLE		555208.06	1402418.26
RW-1	1-Jun-96	180.0	NDA	4”	192.60	Transitional	90.77	101.83	555130.70	1402343.07

NOTES:
* Aquifer system based on opinion from review of previous reports.
** Denotes attempt made to remove pump failed, well inaccessible.
*** Sampled 6/25/14
**** Sampled 3/30/15
***** Sampled 2/5/16
All data provided in feet unless otherwise noted

DTW - Depth to Water
NDA - No Data Available
TOC - Top of Casing
WTE - Water Table Elevation

Table 2 - Current Groundwater & Physical Parameter Data
American Truetzschler Facility
Charlotte, North Carolina

	General Information		Detected 8260 Constituents																	Physical Parameter Data					
	Well ID No.	Sample Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis, 1,2-Dichloroethene	trans, 1,2-Dichloroethene	1,4-Dioxane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	pH (su)	Conductivity (µS/cm)	Dissolved Oxygen (ppm)	Temperature (°C)	Oxygen Reduction Potential (mV)	Turbidity (NTU)
Monitoring / Recovery Wells	MW-1D	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	1.7	< 0.093	< 0.15	**3.5**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	7.11	182	5.24	18.94	197	1.9
	MW-1V	16-Dec-13	160	0.35 (J)	< 0.086	< 0.15	**12**	**2.7**	**340**	1.1	0.99	**270**	**20**	0.4 (J)	8.9	< 0.19	**8.3**	< 0.13	**2**	12.57	7,080	4.14	17.98	37	0.5
	MW-2D	16-Dec-13	2 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**11**	< 0.093	< 0.15	**9.1**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	10.72	431	3.67	20.13	108	9.6
	MW-3V	17-Dec-13	1.8 (J)	< 0.090	< 0.086	< 0.15	2.1	< 0.11	**11**	< 0.093	< 0.15	**5.5**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	7.05	196	1.66	17.74	183	3.2
	MW-4S	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.85 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.20	93	6.79	22.38	216	80.4
	MW-4D	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.91 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.27	158	5.29	19.11	249	0.0
	MW-5D*	17-Dec-13	1.3 (J)	< 0.090	0.44 (J)	< 0.15	0.89	**0.61**	**43**	< 0.093	< 0.15	**28**	**1.8**	< 0.10	0.76	**0.79**	1	< 0.13	< 0.12	6.46	168	5.78	19.34	206	8.3
	MW-6S	16-Dec-13	1.6 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	**18**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	5.33	92	3.30	14.71	339	12.9
	MW-6D*	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	0.49 (J)	< 0.093	< 0.15	1.9 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.79	248	4.15	18.03	251	2.4
	MW-8	17-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	0.57	< 0.093	< 0.15	1.1 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.91	247	3.12	17.28	197	0.0
	MW-9	17-Dec-13	< 1	< 0.090	< 0.086	0.44 (J)	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	**6**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	5.29	273	1.76	18.31	267	3.4
	MW-10	17-Dec-13	2.8 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.79 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	11.50	980	0.00	17.10	-333	22.6
	MW-22	25-Jun-14	5.3 (J)	< 0.09	0.41 (J)	< 0.15	< 0.11	< 0.11	**8.1**	< 0.093	< 0.15	**9.2**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.97	194	6.68	18.34	307	0.0
	MW-23	30-Mar-15	< 10	< 0.33	1.9 J	< 0.28	< 0.26	< 0.36	6.5	< 0.26	< 0.40	1.4 J	< 0.37	< 0.78	< 0.32	< 0.38	< 0.40	< 1.2	< 0.26	8.28	429	2.35	17.49	-118	16.8
	MW-24	5-Feb-16	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	1.38	< 0.093	0.303 J	< 0.60	< 0.02	0.161 J	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	7.61	180	4.99	15.83	41	8.2
	RW-1	3-Dec-13	2.7 (J)	< 0.090	< 0.086	< 0.15	1	0.65	**45**	< 0.093	< 0.15	**39**	**2.4**	< 0.10	0.96	0.82	1.1	< 0.13	< 0.12	NA					
Potable Wells	WSW-17	7-Jun-16	1.51 J	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.20	< 0.10	< 0.094	< 0.19	< 0.15	0.788	< 0.12	NA					
	WSW-21	20-Dec-13	2.6 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	1.2	< 0.12						
	WSW-24	20-Dec-13	2.7 (J)	< 0.090	< 0.086	0.6	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-25	17-Dec-13	1.2 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-32	7-Jun-16	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.20	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-33	1-May-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.20	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		21-Jun-16	< 10	< 0.331	< 0.324	< 0.28	< 0.26	< 0.36	< 0.40	< 0.26	< 0.40	< 0.60	< 0.37	< 0.78	< 0.32	< 0.38	< 0.40	< 1.2	< 0.26						
	WSW-34	28-Oct-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.20	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-35	18-Jun-14	1.5 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	4.1	< 0.093	< 0.15	0.95 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	1.0 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	3.8	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		24-Jun-15	< 10	< 0.33	< 0.32	< 0.28	< 0.26	< 0.36	3.79	< 0.26	< 0.40	< 0.60	< 0.37	< 0.78	< 0.319	< 0.38	< 0.40	< 1.20	< 0.26						
		22-Dec-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	5.59	< 0.093	< 0.15	1.83 J	0.23 J	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		21-Jun-16	< 10	< 0.331	< 0.324	< 0.28	< 0.26	< 0.36	6.19	< 0.26	< 0.40	< 0.60	< 0.37	< 0.78	< 0.32	< 0.38	< 0.40	< 1.2	< 0.26						
	WSW-36	18-Jun-14	2.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	6.1	< 0.093	< 0.15	0.82 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	4.9	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		24-Jun-15	< 10	< 0.33	< 0.32	< 0.28	< 0.26	< 0.36	5.82	< 0.26	< 0.40	< 0.60	< 0.37	< 0.78	< 0.319	< 0.38	< 0.40	< 1.20	< 0.26						
		10-Dec-15	< 1	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	5.7	< 0.093	< 0.15	1.07 J	0.248 J	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		7-Jun-16	1.65 J	< 0.09	< 0.086	< 0.15	< 011	< 0.11	5.81	< 0.093	< 0.15	< 0.60	0.243 J	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-37-INF	13-Mar-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**10**	< 0.093	< 0.15	0.92 (J)	0.37 (J)	< 0.50	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Oct-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**10**	< 0.093	< 0.15	0.84 (J)	0.64	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**10**	< 0.093	< 0.15	< 0.60	0.37 (J)	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		15-Jun-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**8.68**	< 0.093	< 0.15	1.02 J	0.405 J	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Dec-15	< 1	< 0.090	< 0.086	< 0.15	0.237 J	< 0.11	**16**	< 0.093	< 0.15	1.26 J	0.64	< 0.10	0.197 J	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-37-EFF	13-Mar-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.6 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Oct-14	1.3 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.63 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		15-Jun-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	1.50 J	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Dec-15	< 1	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	1.73 J	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		7-Jun-16	1.33 J	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	1.58 J	< 0.20	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-41 INF	20-Dec-13	1.4 (J)	< 0.090	< 0.086	< 0.15	0.60	< 0.11	**7.7**	< 0.093	< 0.15	**21**	**0.84**	< 0.10	< 0.094	0.33 (J)	< 0.15	< 0.13	< 0.12						
		5-Jan-15	5.1 (J)	< 0.090	< 0.086	< 0.15	0.76	**0.46 (J)**	**16**	< 0.093	< 0.15	**18**	**1.9**	< 0.10	< 0.094	**0.79**	< 0.15	< 0.13	< 0.12						
	WSW-41 ATSW	5-Jan-15	6.6	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	3	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		10-Dec-15	< 1	< 0.090	0.549 J	< 0.15	0.92	0.52	**32.8**	< 0.093	< 0.15	**22.8**	**1.71**	< 0.10	0.544	**0.681**	0.67	< 0.13	< 0.12						
		8-Mar-16	5.67 J	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	2.66 J	0.206 J	0.15 J	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		7-Jun-16	1.48 J	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.20	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-49	20-Dec-13	1.3 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
QA/QC	DUPLICATE (6D)	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	0.56	< 0.093	< 0.15	1.6 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	NA					
	DUPLICATE (5D)	17-Dec-13	< 1	< 0.090	0.43 (J)	0.48 (J)	1	**0.63**	**44**	< 0.093	< 0.15	**26**	**1.4**	< 0.10	0.65	**0.71**	0.88	< 0.13	< 0.12						
	FIELD BLANK	17-Dec-13	3.9 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.86 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	TRIP BLANK	--	2.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	NA	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	NCAC 2L		**6,000**	**1**	**70**	**3**	**6**	**0.4**	**7**	**60**	**60**	**3**	**0.7**	**600**	**200**	**0.6**	**3**	**2,000**	**0.03**	--					

Notes:
* - indicates duplicate sample collected from well
Concentrations in micrograms per liter (ug/L)
Highlighted data indicates levels exceeding NCAC 2L

(J) - indicates estimated value
NA - Not Analyzed
ATSW - American Truetzschler Supply well - treated

INF - Influent
EFF - Effluent

Table 3 - Historical Groundwater Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-1S	1-Apr-92	BDL	BDL	**4,300**	ND	BDL	**460**	**17,000**	BDL	ND	ND
	18-May-93	**136**	**150**	**900**	ND	**3**	**220**	**7,700**	BDL	ND	ND
	9-Dec-93	**110**	**73**	BDL	ND	**3.8**	BDL	**7,300**	BDL	ND	ND
	23-Mar-94	**120**	**22**	**2,200**	ND	**6.8**	**140**	**6,300**	BDL	ND	ND
	22-Jun-94	**80**	**38**	**1,830**	ND	**7**	**250**	**4,500**	BDL	ND	ND
	6-Oct-94	**43**	**64**	**1,700**	ND	BDL	**120**	**5,600**	BDL	ND	ND
	20-Dec-94	**48**	**39**	**1,200**	ND	**3.5**	**100**	**3,700**	BDL	ND	ND
	13-Mar-95	**37**	**17**	**870**	ND	**5**	**70**	**1,600**	BDL	ND	ND
	21-Jun-95	**42**	**31**	**990**	ND	**4**	**80**	**2,800**	BDL	ND	ND
	29-Sep-95	**26**	**3**	**1,400**	ND	**6.2**	**43**	**3,300**	BDL	ND	ND
	1-Feb-96	**29**	**7.6**	**800**	ND	**2.2**	**54**	**1,700**	BDL	ND	ND
	18-Jun-96	< 50	< 50	**500**	< 50	< 50	< 50	**1,100**	< 50	ND	ND
	3-Sep-96	< 10	< 10	**310**	< 10	< 10	**20**	**750**	< 10	ND	ND
	16-Dec-96	< 10	< 10	**200**	< 10	< 10	**10**	**420**	< 10	ND	ND
	26-Mar-97	5	< 5	**290**	< 5	< 5	**20**	< 5	< 5	ND	ND
	18-Jun-97	< 10	< 10	**490**	< 10	< 10	**17**	**610**	< 10	ND	ND
	17-Sep-97	**9.6**	**1.4**	**290**	< 1	**7.8**	**16**	**390**	< 1	ND	ND
	Dec-97 - Dec-09	NOT SAMPLED BY OTHERS									
	1/12-12/13	NOT SAMPLED - OBSERVED TO BE DRY									
MW-1D	1-Aug-92	BDL	BDL	**640**	ND	BDL	ND	**460**	BDL	ND	ND
	18-May-93	BDL	BDL	**264**	ND	**9**	BDL	76	BDL	ND	ND
	16-Dec-93	BDL	BDL	**82**	ND	**4.1**	BDL	28	BDL	ND	ND
	23-Mar-94	BDL	BDL	**140**	ND	**5.8**	BDL	51	BDL	ND	ND
	22-Jun-94	BDL	**3**	**190**	ND	**5**	BDL	38	BDL	ND	ND
	6-Oct-94	BDL	BDL	**65**	ND	**2.1**	BDL	18	BDL	ND	ND
	21-Dec-94	BDL	BDL	**36**	ND	**2.2**	BDL	11	BDL	ND	ND
	22-Jun-95	< 1	< 1	**56**	ND	< 1	< 1	23	< 1	ND	ND
	29-Sep-95	< 1	< 1	**54**	ND	< 1	< 1	21	< 1	ND	ND
	1-Feb-96	< 1	**1**	**94**	ND	**3.4**	< 1	32	< 1	ND	ND
	26-Mar-97	< 2	< 2	**130**	< 2	**2**	< 2	40	< 2	ND	ND
	17-Dec-98	< 1	< 1	6.9	< 1	< 1	< 1	< 1	< 1	ND	ND
	5-Dec-11	< 0.32	< 0.12	3.8	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	**4.7**
	16-Dec-13	< 0.11	< 0.11	1.7	< 0.093	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	**4**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene

Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene

TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued) American Truetzschler Facility Charlotte, North Carolina											
Well ID No.	**Sample Date**	**1,1-DCA**	**1,2-DCA**	**1,1-DCE**	**cis-1,2-DCE**	**PCE**	**TCE**	**1,1,1-TCA**	**1,1,2-TCA**	**VCE**	**1,4-Dioxane**
MW-1V	29-Sep-95	**20**	< 1	**310**	NA	< 1	< 1	**230**	< 1	ND	ND
	1-Feb-96	**150**	**35**	**1,900**	NA	**7.6**	**78**	**1,200**	BDL	ND	ND
	19-Jun-96	**150**	**50**	**2,400**	< 50	< 50	**100**	**1,300**	< 50	ND	ND
	4-Sep-96	**120**	**40**	**2,200**	20	< 20	**120**	**1,200**	< 20	ND	ND
	17-Dec-96	**120**	**60**	**3,300**	40	< 20	**180**	**1,700**	< 20	ND	ND
	26-Mar-97	**75**	< 25	**3,200**	< 25	**50**	**75**	**1,200**	< 25	ND	ND
	19-Jun-97	< 100	< 100	**4,700**	< 100	< 100	< 100	**1,300**	< 100	ND	ND
	18-Sep-97	**86**	**28**	**2,600**	17	**47**	**56**	**1,000**	BDL	ND	ND
	11-Dec-97	**57**	**30**	**1,700**	17	**59**	**60**	**750**	BDL	ND	ND
	2-Jun-98	**73**	**19**	**4,200**	< 1	**59**	**47**	**970**	< 1	ND	ND
	17-Dec-98	**60**	**39**	**2,000**	< 1	**24**	**74**	**680**	< 1	ND	ND
	8-Jun-99	**54.6 (J)**	< 100	**1,700**	< 100	< 100	**56.4 (J)**	**540**	< 100	ND	ND
	21-Dec-99	**68**	**23**	**2,000**	< 1	**60**	**54**	**800**	< 1	ND	ND
	22-Jun-00	**24**	**17**	**970**	< 1	**13**	**23**	**320**	< 1	ND	ND
	20-Dec-00	**42**	**21**	**970**	8.8	**29**	**38**	**280**	BDL	ND	ND
	27-Jun-01	**44**	< 20	**400**	< 20	< 20	**32**	150	< 20	ND	ND
	17-Dec-01	< 20	< 20	**530**	< 20	< 20	**53**	< 20	< 20	ND	ND
	26-Jun-02	**44**	**16**	**540**	< 1	**24**	**42**	140	< 1	ND	ND
	17-Dec-02	**32**	< 20	**760**	< 20	**32**	**37**	**210**	< 20	ND	ND
	25-Jun-03	**29**	< 20	**440**	< 20	BDL	**23**	82	< 20	ND	ND
	18-Dec-03	**27**	< 20	**430**	< 20	< 20	**29**	120	< 20	ND	ND
	14-Jun-04	**35**	**20**	**330**	< 10	**13**	**32**	82	< 10	ND	ND
	7-Dec-04	**23**	< 10	**540**	< 10	**17**	**26**	71	< 10	ND	ND
	24-Jun-05	**26**	**11**	**570**	13	**22**	**23**	63	BDL	ND	ND
	21-Dec-05	**19**	< 5	**290**	< 5	**16**	**20**	59	< 5	ND	ND
	26-Jun-06	**15**	< 10	**180**	< 10	< 10	**17**	30	< 10	ND	ND
	12-Dec-06	**15**	**6.3**	**230**	< 5	**10**	**20**	27	< 5	ND	ND
	29-Jun-07	**13**	< 5	**200**	< 5	**4.8**	**17**	26	< 5	ND	ND
	20-Dec-07	**14.9**	< 5	**448**	< 5	**22.2**	**21.3**	38.5	< 5	ND	ND
	27-Jun-08	< 20	< 20	**434**	< 20	**21.2**	< 20	35.4	< 20	ND	ND
	12-Dec-08	**12.3**	< 10	**241**	< 10	**12.2**	**13.1**	16.7	< 10	ND	ND
	25-Jun-09	**10.5**	< 10	**128**	< 10	< 10	< 10	< 1	< 10	ND	ND
	12-Dec-09	**9.3**	**4.8**	**171**	1.9	**10.1**	**12.5**	11.6	1	ND	ND
	5-Dec-11	**14.5**	**4.4**	**329**	1.5	**19.9**	**9.8**	15	< 0.29	**2**	**259**
	16-Dec-13	**12**	**2.7**	**340**	1.1	**20**	**8.3**	8.9	< 0.19	**2**	**270**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene

Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene

TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-2S	1-Apr-92	BDL	BDL	**39**	ND	BDL	**4**	140	BDL	ND	ND
	23-Mar-94	2.1	BDL	**50**	ND	BDL	**3.2**	89	BDL	ND	ND
	22-Jun-94	3	**5**	**66**	ND	BDL	**6**	110	BDL	ND	ND
	6-Oct-94	1.2	**1.2**	**36**	ND	BDL	1.9	69	BDL	ND	ND
	20-Dec-94	1.7	**2.3**	**33**	ND	BDL	2.2	76	BDL	ND	ND
	13-Mar-95	BDL	BDL	**19**	ND	BDL	BDL	28	BDL	ND	ND
	21-Jun-95	< 1	< 1	**17**	ND	< 1	< 1	36	< 1	ND	ND
	29-Sep-95	< 1	< 1	**18**	ND	< 1	1	44	< 1	ND	ND
	1-Feb-96	< 1	< 1	**8.7**	ND	< 1	< 1	19	< 1	ND	ND
	18-Jun-96	< 1	< 1	2	< 1	< 1	< 1	8	< 1	ND	ND
	3-Sep-96	< 1	< 1	3	< 1	< 1	< 1	9	< 1	ND	ND
	16-Dec-96	< 1	< 1	2	< 1	< 1	< 1	8	< 1	ND	ND
	25-Mar-97	< 1	< 1	2	< 1	< 1	< 1	4	< 1	ND	ND
	18-Jun-97	< 1	< 1	**19**	< 1	< 1	< 1	30	< 1	ND	ND
	17-Sep-97	< 1	< 1	**7.9**	< 1	< 1	< 1	10	< 1	ND	ND
	1-Jun-98	< 1	< 1	**79**	< 1	< 1	< 1	35	< 1	ND	ND
	Dec-98 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	NOT SAMPLED - OBSERVED TO BE DRY									
MW-2D	1-Apr-92	BDL	BDL	**1,700**	ND	BDL	**28**	34	BDL	ND	ND
	18-May-93	**8**	**62**	**600**	ND	**6**	**51**	**400**	BDL	ND	ND
	16-Dec-93	**17**	**28**	**1,300**	ND	**6.4**	BDL	**880**	BDL	ND	ND
	23-Mar-94	**9.3**	**18**	**1,800**	ND	**7.3**	**50**	**930**	BDL	ND	ND
	22-Jun-94	**13**	**24**	**2,070**	ND	**9**	**49**	**1,480**	BDL	ND	ND
	6-Oct-94	5.8	**20**	**1,700**	ND	**5.2**	**40**	**910**	BDL	ND	ND
	20-Dec-94	BDL	**26**	**1,500**	ND	BDL	**43**	**790**	BDL	ND	ND
	13-Mar-95	**6**	**12**	**1,600**	ND	**4**	**23**	**600**	BDL	ND	ND
	21-Jun-95	**10**	**18**	**1,310**	ND	**2**	**31**	**550**	BDL	ND	ND
	29-Sep-95	4	**10**	**1,100**	ND	**8.4**	**28**	**450**	BDL	ND	ND
	1-Feb-96	3.5	**9.9**	**990**	ND	< 1	**18**	**460**	< 1	ND	ND
	19-Jun-96	< 50	< 50	**850**	< 50	< 50	< 50	**300**	< 50	ND	ND
	3-Sep-96	< 10	< 10	**730**	< 10	< 10	10	**300**	< 10	ND	ND
	17-Dec-96	< 10	< 10	**580**	< 10	< 10	< 10	190	< 10	ND	ND
	26-Mar-97	< 5	< 5	**500**	< 5	< 5	**5**	150	< 5	ND	ND
	19-Jun-97	< 10	< 10	**1,000**	< 10	< 10	< 10	**230**	< 10	ND	ND
	17-Sep-97	1.4	**2.6**	**520**	1.8	< 1	**7.2**	140	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-2D	10-Dec-97	< 1	1.6	190	1	< 1	2.4	44	< 1	ND	ND
	2-Jun-98	< 1	1.9	360	< 1	< 1	3	72	< 1	ND	ND
	17-Dec-98	1.1	2.6	310	1.1	1.9	5	62	< 1	ND	ND
	8-Jun-99	< 1	< 1	110	< 1	< 1	1.5	39	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	2-Dec-11	0.36 J	< 0.12	**32.2**	< 0.19	< 0.46	0.88 J	1.1	< 0.29	< 0.62	**22.5**
	16-Dec-13	< 0.11	< 0.11	**11**	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**9.1**
MW-2V	7-Oct-94	BDL	1.1	**79**	ND	1.4	BDL	37	BDL	ND	ND
	30-Dec-94	BDL	BDL	**89**	ND	BDL	BDL	36	BDL	ND	ND
	16-Mar-95	BDL	BDL	**80**	ND	BDL	3	21	BDL	ND	ND
	21-Jun-95	< 1	< 1	**31**	ND	< 1	< 1	11	< 1	ND	ND
	29-Sep-95	1.3	1.3	**58**	ND	< 1	< 1	29	< 1	ND	ND
	1-Feb-96	< 1	< 1	**44**	ND	< 1	< 1	20	< 1	ND	ND
	18-Jun-96	3	3	**52**	< 1	< 1	< 1	20	< 1	ND	ND
	3-Sep-96	1	1	**47**	< 1	< 1	< 1	23	< 1	ND	ND
	16-Dec-96	< 1	< 1	**36**	< 1	< 1	< 1	12	< 1	ND	ND
	26-Mar-97	< 1	< 1	6	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 10	< 10	**1,000**	< 10	< 10	< 10	280	< 10	ND	ND
	18-Sep-97	< 1	< 1	**77**	< 1	< 1	< 1	27	< 1	ND	ND
	9-Dec-97	< 1	< 1	**94**	< 1	1	< 1	25	< 1	ND	ND
	1-Jun-98	< 1	< 1	**78**	< 1	< 1	< 1	24	< 1	ND	ND
	16-Dec-98	< 1	< 1	**62**	< 1	< 1	< 1	18	< 1	ND	ND
	9-Jun-99	< 1	< 1	**40**	< 1	< 1	< 1	13	< 1	ND	ND
	21-Dec-99	< 1	< 1	**43**	< 1	< 1	< 1	18	< 1	ND	ND
	22-Jun-00	< 1	< 1	**18**	< 1	< 1	< 1	6.6	< 1	ND	ND
	20-Dec-00	2.5	< 1	**46**	< 1	< 1	< 1	6	< 1	ND	ND
	27-Jun-01	2.5	< 1	**25**	< 1	< 1	< 1	10	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Jun-02	3.9	< 1	**250**	< 1	5.5	5.9	39	< 1	ND	ND
	17-Dec-02	< 10	< 10	**210**	< 1	< 10	< 10	36	< 1	ND	ND
	25-Jun-03	2.9	2	**300**	< 1	4	4.6	60	< 1	ND	ND
	6-Jan-04	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	14-Jun-04	4.1	< 1	**59**	< 1	< 1	< 1	4.8	< 1	ND	ND
	7-Dec-04	1.6	< 1	**100**	< 1	3.3	3.2	13	< 1	ND	ND
	Jun-05 - Dec-05	NOT SAMPLED BY OTHERS									
	26-Jun-06	< 1	< 1	**50**	< 1	< 1	< 1	6.4	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-2V	12-Dec-06	< 1	< 1	**47**	< 1	**1**	1.3	5.4	< 1	ND	ND
	29-Jun-07	< 1	< 1	**8**	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-07	1.9	< 1	**179**	< 1	**2.6**	**3.1**	8.2	< 1	ND	ND
	27-Jun-08	< 1	< 1	**25**	< 1	< 1	1.3	< 1	< 1	ND	ND
	12-Dec-08	2.7	**1.4**	**136**	< 1	**4.5**	2.8	7.8	< 1	ND	ND
	25-Jun-09	NOT SAMPLED BY OTHERS									
	12-Dec-09	1.8	< 0.5	**23**	< 0.5	**0.95**	0.53	< 0.5	< 0.5	ND	ND
	Jan-12 - Dec-13	NOT SAMPLED - WELL DAMAGED, INACCESSIBLE									
MW-3S	1-Apr-92	ND	BDL	**39**	ND	1	BDL	34	BDL	ND	ND
	18-May-92	54	BDL	**26**	ND	BDL	BDL	16	BDL	ND	ND
	16-Dec-93	46	BDL	**24**	ND	BDL	BDL	15	BDL	ND	ND
	23-Mar-94	53	BDL	**22**	ND	BDL	BDL	12	BDL	ND	ND
	6-Oct-94	42	BDL	**15**	ND	BDL	BDL	8.2	BDL	ND	ND
	20-Dec-94	40	BDL	**15**	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	31	BDL	**13**	ND	BDL	BDL	6	BDL	ND	ND
	21-Jun-95	42	< 1	**9**	ND	< 1	< 1	9	< 1	ND	ND
	29-Sep-95	38	< 1	**12**	ND	< 1	< 1	6.3	< 1	ND	ND
	1-Feb-96	46	< 1	**8.6**	ND	< 1	< 1	4.9	< 1	ND	ND
	Jan-12 - Dec-13	NOT SAMPLED - ABANDONED									
MW-3D	1-Apr-92	BDL	BDL	**17**	ND	BDL	BDL	7	BDL	ND	ND
	18-May-93	BDL	BDL	**13**	ND	BDL	BDL	2	BDL	ND	ND
	16-Dec-93	BDL	BDL	2.3	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	**16**	ND	BDL	BDL	4	BDL	ND	ND
	21-Jun-94	BDL	BDL	**10**	ND	BDL	BDL	10	BDL	ND	ND
	6-Oct-94	BDL	BDL	1.6	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Dec-94	BDL	BDL	1.2	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	3.0	ND	BDL	BDL	< 1	BDL	ND	ND
	22-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	3.5	ND	< 1	< 1	1.6	< 1	ND	ND
	19-Jun-96	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jan-12 - Dec-13	NOT SAMPLED - ABANDONED									
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-3V	7-Oct-94	BDL	BDL	**8.7**	ND	BDL	BDL	3.9	BDL	ND	ND
	30-Dec-94	BDL	BDL	2.2	ND	BDL	BDL	1.5	BDL	ND	ND
	16-Mar-95	BDL	BDL	4	ND	BDL	BDL	2	BDL	ND	ND
	21-Jun-95	< 1	< 1	4	ND	< 1	< 1	5	< 1	ND	ND
	29-Sep-95	< 1	< 1	2.8	ND	< 1	< 1	1.4	< 1	ND	ND
	1-Feb-96	< 1	< 1	2.2	ND	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	3	< 1	< 1	< 1	1	< 1	ND	ND
	3-Sep-96	< 1	< 1	2	< 1	< 1	< 1	1	< 1	ND	ND
	16-Dec-96	< 1	< 1	7	< 1	< 1	< 1	2	< 1	ND	ND
	25-Mar-97	< 1	< 1	5	< 1	< 1	< 1	2	< 1	ND	ND
	18-Jun-97	< 1	< 1	**9.9**	< 1	< 1	< 1	2.5	< 1	ND	ND
	17-Sep-97	< 1	< 1	**7.7**	< 1	< 1	< 1	2.1	< 1	ND	ND
	9-Dec-97	< 1	< 1	**7**	< 1	< 1	< 1	2.7	< 1	ND	ND
	1-Jun-98	< 1	< 1	**11**	< 1	< 1	< 1	2.2	< 1	ND	ND
	16-Dec-98	< 1	< 1	**8.9**	< 1	< 1	< 1	2.2	< 1	ND	ND
	9-Jun-99	< 1	< 1	4.7	< 1	< 1	< 1	< 1	< 1	ND	ND
	22-Jun-00	< 1	< 1	5.1	< 1	< 1	< 1	2.4	< 1	ND	ND
	27-Jun-01	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-01 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	1.8	< 0.12	3.6	< 0.19	< 0.46	< 0.47	< 0.46	< 0.29	< 0.62	< 3
	17-Dec-13	2.1	< 0.11	**11**	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**5.5**
MW-4S	9-Dec-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	5-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Dec-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-4S	17-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	8-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	NOT SAMPLED - OBSERVED TO BE DRY									
	16-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	0.85 (J)
MW-4D	1-Apr-92	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	9-Dec-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	6	BDL	ND	ND
	5-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Dec-94	BDL	BDL	2.8	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	19-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	19-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	10-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	2-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	8-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-99	< 1	< 1	1.5	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-02 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	16-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	0.91 (J)
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-5	1-Aug-92	BDL	BDL	**41**	ND	**1**	ND	27	BDL	ND	ND
	17-May-93	BDL	BDL	**172**	ND	**3**	BDL	51	BDL	ND	ND
	23-Mar-94	BDL	BDL	**230**	ND	**5.7**	1.5	81	BDL	ND	ND
	21-Jun-94	3	**4**	**290**	ND	**6**	**3**	**220**	BDL	ND	ND
	6-Oct-94	BDL	**2**	**190**	ND	**5.2**	1.5	87	BDL	ND	ND
	20-Dec-94	BDL	**2.8**	**170**	ND	**5**	1.3	84	BDL	ND	ND
	13-Mar-95	BDL	**2**	**160**	ND	**6**	1	38	BDL	ND	ND
	21-Jun-95	1	**2**	**170**	ND	**5**	1	100	< 1	ND	ND
	29-Sep-95	< 1	**1**	**130**	ND	**5.6**	< 1	60	< 1	ND	ND
	1-Feb-96	1.4	**1.8**	**230**	ND	**5.8**	2	120	< 1	ND	ND
	25-Mar-97	CONVERTED TO AIR SPARGE WELL BY OTHERS									
	19-Jan-12	NOT SAMPLED - NOT LOCATED									
MW-5S	1-Aug-92	BDL	BDL	BDL	ND	BDL	ND	2	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	1.3	ND	BDL	BDL	1.8	BDL	ND	ND
	21-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	4	BDL	ND	ND
	6-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Dec-94	BDL	BDL	2	ND	BDL	BDL	2.4	BDL	ND	ND
	13-Mar-95	BDL	BDL	2	ND	BDL	BDL	3	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-97 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - OBSERVED TO BE DRY									
MW-5D	1-Aug-92	BDL	BDL	**92**	ND	**3**	ND	52	BDL	ND	ND
	17-May-93	BDL	BDL	**244**	ND	**7**	BDL	80	BDL	ND	ND
	23-Mar-94	BDL	BDL	**230**	ND	**6.2**	BDL	73	BDL	ND	ND
	21-Jun-94	BDL	**4**	**300**	ND	**7**	2	**230**	BDL	ND	ND
	6-Oct-94	BDL	**1.6**	**150**	ND	**4.6**	BDL	65	BDL	ND	ND
	20-Dec-94	BDL	**2.2**	**160**	ND	**4.2**	BDL	59	BDL	ND	ND
	13-Mar-95	BDL	**1**	**240**	ND	**8**	1	44	BDL	ND	ND
	21-Jun-95	< 1	**2**	**210**	ND	**8.1**	2	100	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-5D	29-Sep-95	< 1	**1.4**	**200**	ND	**6.1**	1.9	79	< 1	ND	ND
	1-Feb-96	< 1	**1.1**	**560**	ND	**6.1**	1.4	190	< 1	ND	ND
	19-Jun-96	< 10	< 10	**220**	< 10	< 10	< 10	70	< 10	ND	ND
	4-Sep-96	< 2	< 2	**190**	< 2	**4**	< 2	62	< 2	ND	ND
	16-Dec-96	< 2	< 2	**200**	< 2	**4**	< 2	64	< 2	ND	ND
	25-Mar-97	< 5	< 5	**230**	< 5	< 5	< 5	45	< 5	ND	ND
	18-Jun-97	< 1	**1.6**	**260**	< 1	**7.3**	1.6	110	< 1	ND	ND
	18-Sep-97	1.2	< 1	**230**	< 1	**5.1**	1	51	< 1	ND	ND
	10-Dec-97	1.3	< 1	**300**	< 1	**4.5**	1.3	32	< 1	ND	ND
	2-Jun-98	< 1	< 1	**220**	< 1	**4.6**	< 1	42	< 1	ND	ND
	17-Dec-98	< 1	< 1	**120**	< 1	**2.7**	< 1	20	< 1	ND	ND
	8-Jun-99	< 5	< 5	**78**	< 5	< 5	< 5	16	< 5	ND	ND
	21-Dec-99	3.6	< 1	**53**	< 1	< 1	< 1	24	< 1	ND	ND
	20-Dec-00	3.5	< 1	**58**	< 1	**2.5**	< 1	14	< 1	ND	ND
	18-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-02	3.8	< 1	**110**	< 1	**2.8**	< 1	17	< 1	ND	ND
	18-Dec-03	< 5	< 5	**44**	< 5	< 5	< 5	7.4	< 5	ND	ND
	7-Dec-04	2.6	< 1	**140**	< 1	**4.1**	2.1	16	< 1	ND	ND
	24-Jun-05	2.8	**1.5**	**200**	2.4	**4.2**	2.3	20	< 1	ND	ND
	21-Dec-05	< 1	< 1	**200**	< 1	**4.4**	2.4	14	< 1	ND	ND
	26-Jun-06	< 5	< 5	**180**	< 5	< 5	< 5	15	< 5	ND	ND
	12-Dec-06	< 5	< 5	**190**	< 5	< 5	< 5	11	< 5	ND	ND
	29-Jun-07	< 5	< 5	**150**	< 5	< 5	< 5	11	< 5	ND	ND
	20-Dec-07	< 5	< 5	**140**	< 5	< 5	< 5	9.2	< 5	ND	ND
	27-Jun-08	< 5	< 5	**171**	< 5	< 5	< 5	9.2	< 5	ND	ND
	12-Dec-08	< 5	< 5	**217**	< 5	< 5	< 5	7.6	< 5	ND	ND
	25-Jun-09	< 5	< 5	**136**	< 5	< 5	< 5	6	< 5	ND	ND
	12-Dec-09	1.6	**1.3**	**166**	0.71	**4.4**	2.2	< 0.5	0.53	ND	ND
	2-Dec-11	1.5	**0.99 J**	**91.2**	0.46 J	**2.5**	1.5	2.1	**0.74 J**	< 0.62	**27**
	17-Dec-13	0.89	**0.61**	**43**	< 0.093	**1.8**	1	0.76	**0.79**	< 0.62	**28**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-6S	1-Apr-92	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	5-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Dec-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	2-Dec-11	< 0.32	< 0.12	< 0.56	2.2	**2.2**	0.63 J	< 0.48	< 0.29	< 0.62	**19.6**
	16-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**18**
MW-6D	1-Aug-92	BDL	BDL	BDL	ND	BDL	BDL	1	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	1.5	ND	BDL	BDL	1.1	BDL	ND	ND
	21-Jun-94	BDL	BDL	6	ND	BDL	BDL	14	BDL	ND	ND
	5-Oct-94	BDL	BDL	2.7	ND	BDL	BDL	1.2	BDL	ND	ND
	21-Dec-94	BDL	BDL	2.3	ND	BDL	BDL	1	BDL	ND	ND
	14-Mar-95	BDL	BDL	4	ND	BDL	BDL	2	BDL	ND	ND
	22-Jun-95	< 1	< 1	4	ND	< 1	< 1	4	< 1	ND	ND
	29-Sep-95	< 1	< 1	3.7	ND	< 1	< 1	1.7	< 1	ND	ND
	1-Feb-96	< 1	< 1	4.5	ND	< 1	< 1	2.4	< 1	ND	ND
	19-Jun-96	< 1	< 1	5	< 1	< 1	< 1	2	< 1	ND	ND
	4-Sep-96	< 1	< 1	**8**	< 1	< 1	< 1	2	< 1	ND	ND
	17-Dec-96	< 1	< 1	**7**	< 1	< 1	< 1	2	< 1	ND	ND
	25-Mar-97	< 1	< 1	**7**	< 1	< 1	< 1	2	< 1	ND	ND
	19-Jun-97	< 1	< 1	**18**	< 1	< 1	< 1	5.1	< 1	ND	ND
	17-Sep-97	< 1	< 1	**12**	< 1	< 1	< 1	4.2	< 1	ND	ND
	10-Dec-97	< 1	< 1	**14**	< 1	< 1	< 1	4.7	< 1	ND	ND
	2-Jun-98	< 1	< 1	**41**	< 1	< 1	< 1	9.1	< 1	ND	ND
	17-Dec-98	< 1	< 1	**35**	< 1	< 1	< 1	10	< 1	ND	ND
	8-Jun-99	< 1	< 1	**44**	< 1	< 1	< 1	13	< 1	ND	ND
	21-Dec-99	< 1	< 1	**57**	< 1	< 1	< 1	17	< 1	ND	ND
	22-Jun-00	< 1	< 1	**27**	< 1	< 1	< 1	8.9	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-6D	20-Dec-00	< 1	< 1	**58**	< 1	< 1	< 1	18	< 1	ND	ND
	27-Jun-01	< 1	< 1	**34**	< 1	< 1	< 1	8.3	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Jun-02	< 1	< 1	**22**	< 1	< 1	< 1	3.5	< 1	ND	ND
	17-Dec-02	< 1	< 1	**12**	< 1	< 1	< 1	3.5	< 1	ND	ND
	25-Jun-03	< 1	< 1	**13**	< 1	< 1	< 1	1.6	< 1	ND	ND
	18-Dec-03	< 1	< 1	6.8	< 1	< 1	< 1	1.1	< 1	ND	ND
	14-Jun-04	< 1	< 1	**12**	< 1	< 1	< 1	1.4	< 1	ND	ND
	7-Dec-04	< 1	< 1	**8.4**	< 1	< 1	< 1	< 1	< 1	ND	ND
	24-Jun-05	< 1	< 1	**9.2**	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-05	< 1	< 1	5	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Jun-06	< 1	< 1	**7.1**	< 1	< 1	< 1	< 1	< 1	ND	ND
	12-Dec-06	< 1	< 1	5.5	< 1	< 1	< 1	< 1	< 1	ND	ND
	29-Jun-07	< 1	< 1	4.8	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-07	< 1	< 1	3.9	< 1	< 1	< 1	< 1	< 1	ND	ND
	27-Jun-08	< 1	< 1	2.5	< 1	< 1	< 1	< 1	< 1	ND	ND
	12-Dec-08	< 1	< 1	4.3	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Jun-09	< 1	< 1	3.4	< 1	< 1	< 1	< 1	< 1	ND	ND
	12-Dec-09	< 0.5	< 0.5	3.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	ND
	2-Dec-11	< 0.32	< 0.12	2.2	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	16-Dec-13	< 0.11	< 0.11	0.49	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	1.9
MW-7	8-Aug-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	< 1	ND
	19-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	4-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	Dec-96 - Dec-09	NOT SAMPLED - REPORTED TO BE DRY BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - OBSERVED TO BE DRY									
MW-7S	1-Aug-92	BDL	BDL	BDL	ND	BDL	ND	2	BDL	ND	ND
	29-Sep-95	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-99 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	NOT SAMPLED - OBSERVED TO BE DRY									
	Jan-12 - Dec-13	NOT SAMPLED - INSUFFICIENT VOLUME									
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-8	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-02 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	17-Dec-13	< 0.11	< 0.11	0.57	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	1.1
MW-9	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	< 1	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	< 1	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	18-Jun-97	< 1	< 1	4.4	1.7	**1.4**	1.9	4.2	< 1	ND	ND
	17-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	9-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	21-Dec-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	Jun-00 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	17-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**6**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-10	29-Sep-95	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Sep-97	< 1	< 1	< 1	< 1	**1.1**	< 1	< 1	< 1	ND	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-02 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	17-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	0.79
MW-18	26-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	4-Sep-96	< 1	< 1	6	< 1	< 1	< 1	3	< 1	ND	ND
	17-Dec-96	3	< 1	**21**	< 1	< 1	2	10	< 1	ND	ND
	26-Mar-97	< 1	< 1	6	< 1	< 1	< 1	2	< 1	ND	ND
	19-Jun-97	< 1	< 1	4	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Sep-97	1.7	< 1	**12**	< 1	< 1	< 1	4.2	< 1	ND	ND
	11-Dec-97	3	< 1	**14**	< 1	< 1	< 1	4.1	< 1	ND	ND
	2-Jun-98	1.3	< 1	**14**	< 1	< 1	< 1	2.7	< 1	ND	ND
	17-Dec-98	2.2	< 1	**14**	< 1	< 1	< 1	8.7	< 1	ND	ND
	8-Jun-99	**9.4**	< 1	**20**	< 1	**2.5**	< 1	11	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
MW-19	Sep-96 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-20	29-Sep-95	< 1	**37**	**3,200**	ND	**57**	**47**	**1,100**	< 1	ND	ND
	4-Sep-96	< 10	< 10	**410**	< 10	< 10	< 10	40	< 10	ND	ND
	17-Dec-96	< 10	< 10	**410**	< 10	< 10	< 10	60	< 10	ND	ND
	26-Mar-97	< 10	< 10	**1,300**	< 10	< 10	**40**	**440**	< 10	ND	ND
	19-Jun-97	< 100	< 100	**1,900**	< 100	< 100	< 100	**630**	< 100	ND	ND
	18-Sep-97	**20**	**21**	**1,500**	10	**6.3**	**56**	**750**	BDL	ND	ND
	11-Dec-97	**15**	**18**	**670**	8.1	**1.2**	**26**	**220**	BDL	ND	ND
	2-Jun-98	**26**	**26**	**1,400**	11	**12**	**61**	**430**	BDL	ND	ND
	17-Dec-98	**42**	**39**	**3,000**	19	**44**	**100**	**920**	BDL	ND	ND
	8-Jun-99	< 20	< 20	**960**	< 20	< 20	< 20	**380**	< 20	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
MW-21	Sep-96 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
MW-22	25-Jun-14	< 0.11	< 0.11	**8.1**	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**9.2**
MW-23	30-Mar-15	< 0.26	< 0.36	6.5	< 0.26	< 0.37	< 0.40	< 0.32	< 0.38	< 0.26	1.4 J
MW-24	5-Feb-16	< 0.11	< 0.11	1.38	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	< 0.60
WSW-41 (PW-1)	1-Apr-92	BDL	BDL	**1,100**	ND	**40**	BDL	**760**	BDL	ND	ND
	21-Jun-95	**19**	< 1	**1,670**	ND	**60**	**25**	**700**	< 1	ND	ND
	29-Sep-95	**10**	**8.4**	**1,200**	ND	**42**	**15**	**440**	BDL	ND	ND
	1-Feb-96	**12**	**11**	**1,200**	ND	**42**	**18**	**550**	BDL	ND	ND
	18-Jun-96	< 50	< 50	**1,100**	< 50	< 50	< 50	**350**	< 50	ND	ND
	3-Sep-96	< 10	< 10	**1,200**	< 10	**40**	**10**	**410**	< 10	ND	ND
	17-Dec-96	< 10	< 10	**260**	< 10	< 10	< 10	70	< 10	ND	ND
	26-Mar-97	< 10	< 10	**460**	< 10	**20**	< 10	170	< 10	ND	ND
	18-Jun-97	< 10	< 10	**910**	< 10	< 10	< 10	**240**	< 10	ND	ND
	18-Sep-97	**8.9**	**7.3**	**770**	4	**24**	**14**	**230**	BDL	ND	ND
	9-Dec-97	**9.3**	**7.1**	**580**	4.4	**22**	**14**	**210**	BDL	ND	ND
	2-Jun-98	**6.1**	**5.4**	**530**	1.6	**17**	**11**	120	BDL	ND	ND
	16-Dec-98	5.6	**3.8**	**380**	2	**15**	**8**	88	BDL	ND	ND
	9-Jun-99	< 1	< 1	**44**	< 1	< 1	< 1	12	< 1	ND	ND
	21-Dec-99	5.3	**2.9**	**230**	< 1	**12**	**7.6**	76	< 1	ND	ND
	22-Jun-00	3	< 1	**250**	< 1	**4.7**	**3.1**	21	< 1	ND	ND
	20-Dec-00	2.5	**2.5**	**180**	1.2	**3.1**	**11**	42	< 1	ND	ND
	27-Jun-01	< 5	< 5	**140**	< 5	< 5	**5.8**	31	< 5	ND	ND
	17-Dec-01	< 5	< 5	**210**	< 5	< 5	**13**	21	< 5	ND	ND
	26-Jun-02	2.3	< 1	**140**	< 1	**6.9**	**7**	30	< 1	ND	ND
	17-Dec-02	< 5	< 1	**150**	< 5	< 5	< 5	17	< 5	ND	ND
	25-Jun-03	< 1	< 1	**23**	< 1	< 1	< 1	3.2	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
WSW-41 (PW-1)	18-Dec-03	1.2	< 1	**130**	< 1	**3.8**	**5.4**	19	< 1	ND	ND
	14-Jun-04	< 1	< 1	**34**	< 1	< 1	< 1	4.1	< 1	ND	ND
	7-Dec-04	1.5	< 1	**77**	< 1	**3.6**	**3.7**	13	< 1	ND	ND
	24-Jun-05	2.9	**1.9**	**190**	< 1	**8.1**	**3.7**	19	< 1	ND	ND
	21-Dec-05	< 5	< 5	**180**	< 5	**10**	< 5	13	< 5	ND	ND
	26-Jun-06	< 5	< 5	**150**	< 5	**9.9**	< 5	15	< 5	ND	ND
	12-Dec-06	< 5	< 5	**120**	< 5	**7**	< 5	8.4	< 5	ND	ND
	29-Jun-07	< 5	< 5	**87**	< 5	**9.5**	< 5	11	< 5	ND	ND
	20-Dec-07	< 5	< 5	**61.9**	< 5	**5.2**	< 5	7.8	< 5	ND	ND
	27-Jun-08	1.3	< 5	**52.1**	< 5	**8.4**	< 5	4.9	< 5	ND	ND
	12-Dec-08	1.1	< 1	**55.2**	< 1	**3.8**	1.4	3.5	< 1	ND	ND
	25-Jun-09	< 1	< 1	**40.1**	< 1	**2.7**	1	2.2	1.1	ND	ND
	12-Dec-09	0.61	< 0.5	**16.9**	< 0.5	**1.6**	< 0.5	1.7	0.77	ND	ND
	6-Dec-11	0.36 J	0.32 J	**37.3**	< 0.19	**1.8**	1.5	2.6	1.2	< 0.62	**21.3**
	20-Dec-13	0.60	< 0.11	**7.7**	< 0.093	**0.84**	< 0.15	< 0.094	0.33 J	< 0.12	**21**
	5-Jan-15	0.76	**0.46 J**	**16**	< 0.093	**1.9**	< 0.15	< 0.094	**0.79**	< 0.12	**18**
	10-Dec-15	0.92	0.52	**32.8**	< 0.093	**1.71**	0.67	0.544	**0.681**	< 0.12	**22.8**
	8-Mar-16	< 0.11	< 0.11	< 0.19	< 0.093	0.206 J	< 0.15	< 0.094	< 0.19	< 0.12	2.66 J
RW-1	14-Jun-96	< 10	< 10	**450**	< 10	**10**	< 10	140	< 10	ND	ND
	4-Sep-96	< 10	< 10	**360**	< 10	< 10	< 10	80	< 10	ND	ND
	17-Dec-96	< 10	< 10	**560**	< 10	**10**	< 10	180	< 10	ND	ND
	26-Mar-97	< 10	< 10	**540**	< 10	**10**	< 10	90	< 10	ND	ND
	18-Jun-97	< 10	< 10	**900**	< 10	< 10	< 10	**200**	< 10	ND	ND
	18-Sep-97	4.4	**4.1**	**610**	3	**14**	**5.7**	160	BDL	ND	ND
	9-Dec-97	3.5	**2.1**	**470**	2.1	**8.1**	**3.9**	160	BDL	ND	ND
	1-Jun-98	3.4	**3.1**	**560**	1.8	**11**	**4.4**	120	BDL	ND	ND
	16-Dec-98	3.4	**2.7**	**390**	1.9	**9.8**	**4.2**	92	BDL	ND	ND
	9-Jun-99	< 10	< 10	**270**	< 10	< 10	< 10	69	< 10	ND	ND
	21-Dec-99	1.3	< 1	**170**	< 1	**2.9**	< 1	56	< 1	ND	ND
	22-Jun-00	3.1	< 1	**140**	< 1	**2.9**	2.2	18	< 1	ND	ND
	20-Dec-00	2.5	< 1	**100**	< 1	**3.1**	1.8	17	< 1	ND	ND
	27-Jun-01	< 5	< 5	**90**	< 5	< 5	< 5	32	< 5	ND	ND
	17-Dec-01	< 5	< 5	**73**	< 5	< 5	< 5	< 5	< 5	ND	ND
	26-Jun-02	< 1	< 1	**59**	< 1	< 1	< 1	14	< 1	ND	ND
	17-Dec-02	< 2	< 2	**58**	< 2	< 2	< 2	14	< 2	ND	ND
	25-Jun-03	< 1	< 1	**46**	< 1	< 1	< 1	7.7	< 1	ND	ND
	20-Jan-04	2.8	< 1	**170**	< 1	**2.5**	**3.7**	22	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued) American Truetzschler Facility Charlotte, North Carolina											
Well ID No.	**Sample Date**	**1,1-DCA**	**1,2-DCA**	**1,1-DCE**	**cis-1,2-DCE**	**PCE**	**TCE**	**1,1,1-TCA**	**1,1,2-TCA**	**VCE**	**1,4-Dioxane**
RW-1	14-Jun-04	1.4	**2.5**	**54**	< 1	**4**	**5.5**	28	< 1	ND	ND
	7-Dec-04	< 1	< 1	**160**	< 1	< 1	< 1	20	< 1	ND	ND
	24-Jun-05	2.3	**2.4**	**200**	< 1	**3**	1.1	22	< 1	ND	ND
	21-Dec-05	< 1	< 1	**130**	< 1	**2.4**	**3.6**	17	< 1	ND	ND
	26-Jun-06	< 5	< 5	**100**	< 5	< 5	< 5	15	< 5	ND	ND
	12-Dec-06	< 5	< 5	**85**	< 5	< 5	< 5	6.1	< 5	ND	ND
	29-Jun-07	< 5	< 5	**140**	< 5	< 5	< 5	13	< 5	ND	ND
	20-Dec-07	< 5	< 5	**112**	< 5	< 5	< 5	9	< 5	ND	ND
	27-Jun-08	< 5	< 5	**79.1**	< 5	< 5	< 5	6	< 5	ND	ND
	12-Dec-08	2.3	**1.3**	**129**	< 1	**4.4**	2.8	7.8	< 1	ND	ND
	25-Jun-09	< 10	< 10	**90**	< 10	< 10	< 10	< 10	< 10	ND	ND
	12-Dec-09	1.3	**1.1**	**72.9**	< 0.5	< 0.5	1.5	3.5	1	ND	ND
	6-Dec-11	1.9	**1.2**	**85.7**	0.37 J	**4.2**	1.5	2.6	1.2	< 0.62	**36.9**
	3-Dec-14	1	**0.65**	**45**	< 0.093	**2.4**	1.1	0.96	0.82	< 0.12	**39**
	2-Jan-14	0.88	**0.68**	**29**	< 0.093	**2**	0.74	0.7	0.86	< 0.12	**30**
	13-Mar-14	1.1	**0.7**	**39**	< 0.093	**2.1**	0.81	0.89	0.93	< 0.12	**35**
	21-Apr-14	1	**0.63**	**47**	< 0.093	**2.4**	0.84	0.86	0.8	< 0.12	**30**
	5-May-14	1	**0.58**	**44**	< 0.093	**3**	0.96	0.88	0.98	< 0.12	**25**
	9-Jun-14	0.98	**0.65**	**45**	< 0.093	**2.1**	0.87	0.8	0.84	< 0.12	**37**
	16-Jul-14	0.95	**0.56**	**29**	< 0.093	**1.8**	0.75	0.67	0.73	< 0.12	**32**
	11-Aug-14	0.94	**0.58**	**40**	< 0.093	**2.1**	0.85	0.73	0.74	< 0.12	**38**
	3-Sep-14	1	**0.66**	**44**	< 0.093	**1.9**	0.71	0.77	0.75	< 0.12	**28**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 4 - Remediation System Evaluation Data American Truetzschler Facility Charlotte, North Carolina										
Well ID No.	**Sample Date**	**1,1-DCA**	**1,2-DCA**	**1,1-DCE**	**PCE**	**TCE**	**1,1,1-TCA**	**Chronic Toxicity (90% P/F)**	**Avg Treatment Efficency (%)**	**Discharge Rate (mgpd)**
Influent	21-Apr-16	0.691	< 0.11	38.7	1.48	0.578	0.400 J	--	95.0%	0.004040
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	16-May-16	0.713	**0.430 J**	23.6	1.72	0.750	0.327 J	P	92.3%	0.177080
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	7-Jun-16	0.730	**0.442 J**	23.4	1.56	0.533	0.320 J	--	92.2%	0.016940
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	27-Jul-16	0.732	**0.468 J**	31.9	1.49	0.571	0.314 J	--	94.1%	
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
NPDES Permit Limit		**--**	**0.38**	**--**	**--**	**--**	**--**	**F**	**--**	**< 0.05**

Notes:

The system was temporarly down on May 24-25, 2016
Avg Efficiency = removal of total NPDES permit constituents of concern for both Efflent discharge
Concentrations in micrograms per liter (ug/L)

DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding Permit Limit
Influent - sample collected from RW-1
ND - No Data

PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
1	05312203 05312202	5312/5318 Heavy Equipment School Rd	William Ray 5312 Heavy Equipment School Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,110 feet]	Survey mailed, no response; confirmed with 7/19/2011 field survey; subsequent field survey 7/25/2012 - not in service	704 399-4555
2	05312204 - 7	5124, 5224 & 5330 Heavy Equipment School Rd	Dales Group LLC PO Box 550205 Gastonia 28055	In use drinking water supply well reported by CH2MHill Receptor Survey; [955 feet]; PIDs 5132204, 06 and 07 vacant	Survey mailed, no response; could not confirm with 7/15/2011 field survey; field survey 7/25/2012 - not in service	Not Listed
3	05312208	5020 Heavy Equipment School Rd	Dorothy Hoffman 5020 Heavy Equipment School Rd Charlotte 28214	In use drinking water supply well reported by EFI mailed survey; [1,230 feet]	Drinking & Irrigation Uses Installed: 1963; confirmed with 7/19/2011 field survey	704 339-8356
4	05312209	5010 Heavy Equipment School Rd	Leslie Hare 5010 Heavy Equipment School Rd Charlotte 28214	In use drinking water supply well reported by EFI mailed survey; [1,350 feet] 35.2608,-81.000255	Drinking & Irrigation Uses; Depth: 300' Installed: Unknown; confirmed with 7/19/2011 field survey	704 393-3621
5	05312210	12150 Moores Chapel Rd	Edward Parrott 12150 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [1,495 feet] 35.261227,-80.999437	Visually confirmed with 7/15/2011 field survey; permitted with MCDEP. Depth 60'	704 399-5112
6	05312211	12132 Moores Chapel Rd	Robert McGee Summerville 12132 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,725 feet]	Survey mailed, no response; could not confirm with 7/15/2011 field survey	Not Listed
7	05312212	12120 Moores Chapel Rd	Truet & Gene Auten 12120 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,915 feet];	Survey mailed, no response; could not confirm with 7/15/2011 field survey	704 399-6924
8	05312219	12108 Moores Chapel Rd	Charles Auten 12108 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,085 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	704 394-5812
9	05312214	12004 Moores Chapel Rd	Louise Joye 12004 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,555 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	Not Listed
10	05312220	11942 Moores Chapel Rd	Charles Joye 11942 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,910 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	704 399-0973
11	05313212	12017 Moores Chapel Rd	Sandra Mullis 12017 Moores Chapel Rd Charlotte 28214	In use drinking water supply well Reported by Mailed Survey; [2,460 feet]	Drinking water Use Installed: 1980 casing 70', TD 75'	704 910-0478
12	05313208	12121 Moores Chapel Rd	Peter Greene 12121 Moores Chapel Rd Charlotte 28214	In use drinking water supply well Reported by Mailed Survey; [2,050 feet]	Drinking water Use Depth: Unknown Installed: Unknown	704 394-4381
13	05313209	12131 Moores Chapel Rd	Mell & Guniver Summerville 3716 Devonwood Ln Charlotte 28208	In use drinking water supply well reported by EFI Receptor Survey; [1,855 feet]	Survey mailed, no response; could not confirm with 7/19/2011 field survey	704 399-5679
14	05313210	12201 Moores Chapel Rd	J.C. Barefoot Properties PO Box 19006 Charlotte 28219	In use drinking water supply well reported by EFI mailed survey; [1,750 feet]	Drinking water Use Depth: Unknown Installed: 1947	704 393-7421
15	05313211	12301 Moores Chapel Rd	Knox Group 85 S Industrial LLC PO Box 2608 Cornelius 28031	In use drinking water supply well reported by EFI mailed survey; [1,480 feet]	Drinking water & Irrigation Uses Depth: Unknown Installed: 1973	704 655-0540
16	05313116	4200 Performance Rd	DDB Holdings LLC 4200 Performance Rd Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [2,785 feet]	Drinking water & Irrigation Uses Depth: Unknown Installed: 1981	704 394-3300
17	05317426	12438 Moores Chapel Rd	Mary & Scott Ross 6101 Eastland Ct SE Rome GA 30161	In use drinking water supply well reported by EFI Receptor Survey; [770 feet]	Survey mailed, no response; confirmed with 7/19/2011 field survey	706 290-9324
18	05316102	12409 Moores Chapel Rd	Donald Black 12409 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,090 feet]	Survey mailed, no response; could not confirm with 7/19/2011 field survey	704 399-0909
19	05316103	12501 Moores Chapel Rd	Joni Lynn Horne 12501 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,125 feet] 35.256575,-80.999612	Survey mailed, no response; could not confirm with 7/19/2011 field survey	704 391-2265
20	05316104	12509 Moores Chapel Rd	Betty Bradshaw 12509 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,140 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	phone disconnected
21	05316105	12601 Moores Chapel Rd	Nada Bradshaw 4811 Drakestone Ct Charlotte 28226	In use drinking water supply well reported by EFI Receptor Survey; [1,405 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	Not Listed
22	05316106	12615 Moores Chapel Rd	Maurice & Ethel Allen 12615 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,560 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	704 391-7419
23	05316115	12625 Moores Chapel Rd	Howard & Johnsie Hudgins 186 Friendship Rd Statesville 28625	In use drinking water supply well reported by Mailed Survey; [1,665 feet]	Survey mailed; visually confirmed with 7/19/2011 field survey Installed: 1995 casing 120' TD 220'	704 876-6885
24	05316108	12701 Moores Chapel Rd	Dorothy Auten 12701 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,840 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 399-6523
25	05316110	12725 Moores Chapel Rd	Lori Ann Chadwick & James Auten 12725 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,010 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 568-7550
26	05316117	12711 Moores Chapel Rd	James Auten & Lori Ann Chadwick 10236 Ashley Farm Dr Matthews 28105	In use drinking water supply well reported by EFI Receptor Survey; [2,115 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 568-7550
27	05316111	12803 Moores Chapel Rd	Tien Van Nguyen & Thuy Bui Nguyen 411 N Central Ave Belmont 28012	In use drinking water supply well reported by EFI Receptor Survey; [2,120 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey; permitted with MCDEP	704 825-3119

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
28	05316112	12811 Moores Chapel Rd	David Stefman & Nancy Swisshelm 12811 Moores Chapel Rd Charlotte 28214	In use drinking water supply well Reported by EFI Receptor Survey; [2,205 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey; Depth: Unknown Installed: Unknown	Not Listed
29	05316113	12821 Moores Chapel Rd	Shealy Edsel & Betty Scruggs 12821 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,445 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 393-1260
30	05324121	12726 Moores Chapel Rd	Michael & Deborah Mustin 12726 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,975 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 393-3467
31	05324115	12706 Moores Chapel Rd	Susan Jones 12706 Moores Chapel Rd Charlotte 28214	In use water supply well reported by 6/28/2011 telephone interview; [2,465 feet]; 35.255131, -81.00611	Drinking & Swimming Use Depth: Unknown Installed: 2001; 6" Diameter	704 697-0041
32	05317440	12636 Moores Chapel Rd	Robert & Pamela Parker 12636 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,520 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 399-9992
33	05317441	12624 Moores Chapel Rd	Joel Horwich PO Box 1490 Belmont 28012	In use water supply well reported by 6/29/11 telephone interview; [1,470 feet]	Irrigation & Bathing Use; Depth: Unknown Installed: Unknown	704-391-1000
34	05317407	12546 Moores Chapel Rd	Derek Kersey & Karen Bragg 4109 Carolina Pointe Ct Concord 28027	In use drinking water supply well; permitted well per Mecklenburg County Well System; [1,730 feet]; 35.25217, -81.00668	Survey mailed, no response; well sampled 2/26/2009; no exceedences Installed 2/17/2009, casing 114', TD 200 ', 6" diameter	704 786-8637
35	05317403	12510 Moores Chapel Rd	Joseph Recore 12510 Moores Chapel Rd Charlotte 28214	In use drinking water supply Well reported by Cooper Environmental Survey; [2,145 feet] 35.252703,-81.008189	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704-813-8155
36	05317402	10235 Harbor Dr	Sharon Ryerson 10235 Harbor Dr Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [2,400 feet] 35.253180; -81.007984	Installed 12/15/2008, casing 134', TD 185' 6" diameter Well sampled 7/29/2009; 5 ppb 1,1 DCE	704 391-1576
37	05317401	10335 Harbor Dr	Stephen Woodruff & David Jones 10335 Harbor Dr Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,055 feet] 35.254329; -81.007346	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704-813-2695
38	05317241	5317 Cold Harbor Dr	Louis Bolton 5317 Cold Harbor Dr Charlotte 28214	Supply Well reported by On-Site Survey; use not confirmed; [2,270 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 392-3332
39	NCDOT	Weigh Station 505 NB I-85, Charlotte	NCDOT 1550 Mail Svc Ctr Raleigh 27699	Permitted Well per Mecklenburg County Well Info System; [1,150 feet] 35.257324,-81.007084	In use drinking water supply, transient use	1 877 DOT-4YOU
40	NCDOT	Weigh Station, 506 SB I-85, Charlotte	NCDOT 1550 Mail Svc Ctr Raleigh 27699	Permitted Well per Mecklenburg County Well Info System; [1,145 feet] 35.258682,-81.007036	In use drinking water supply, transient use	1 877 DOT-4YOU
41	05311104	12300 Moores Chapel Rd	American Truetzschler, Incorporated PO Box 669228, Charlotte 28266	Supply Well reported by On-Site Survey 35.258875,-81.00253	In use non transient, non-community water supply well used for toilets, process water. Facility uses bottled water for drinking water supply	704 399-4521
42	05311104	12300 Moores Chapel Rd	American Truetzschler, Incorporated PO Box 669228, Charlotte 28266	Supply Well reported by On-Site Survey		704 399-4521
43	05317259	10118 Harbor Dr	NC Water Service Inc. 2335 Sanders Rd Northbrook IL 60062	Harbor House Community Supply Well; [380 feet]	In use drinking water supply, community use	704 525-7990
44	05317250	Harbor Dr	NC Water Service Inc. 2335 Sanders Rd Northbrook IL 60062	Harbor House Community Supply Well; [1,345 feet]	In use drinking water supply, community use	704 525-7990
45	05317408	12608 Moores Chapel Rd	Francis Rienecker 12608 Moores Chapel Rd Charlotte 28214	In use drinking water supply well; Permitted Well per Mecklenburg County Well Info System; [2,425 feet]; 35.25173, -81.00636	Survey mailed, no response; well installed 3/19/2001, TD 405'; Well sampled 3/1/2007	Not Listed
46	05324120	12712 Moores Chapel Rd	Joseph Holman 12712 Moores Chapel Rd Charlotte 28214	Supply Well reported by On-Site Survey; use not confirmed; [1,760 feet]	Survey mailed, no response; Confirmed with 7/15/2011 field survey	704 393-7297
47	05313204	4101 Performance Rd	Machinery Corp American Dornier PO Box 668865 Charlotte 28266	Survey mailed, no reponse; onsite interview 7/15/2011; drinking water from CMUD; onsite well used for process water; [2,345 feet]	Drinking Water from CMUD Water Well utilized as process use	704 697-3310
48	05316109	12715 Moores Chapel Rd	Dorothy Auten 12701 Moores Chapel Charlotte 28214	In use supply Well Reported by 7/15/2011 telephone interview; [1,930 feet]	Drinking Use Depth: Unknown Installed: Unknown	704 399-6523
49	05324119	12900 Moores Chapel Rd	Tammy Potts McElreath PO Box 547 Belmont 28012	In use supply Well Reported by 7/19/2011 telephone interview; [2,575 feet]	Drinking Use Depth: Unknown Installed: Unknown	704 334-0322
43/44	05317268	10000 Harbor Dr	Ronald Banks 10000 Harbor Dr Charlotte 28214	Harbor House Public Water System PWS # NC0160211	Not Applicable	Not Applicable
43/44	05317267	10008 Harbor Dr	Pa Vang 10008 Harbor Dr Charlotte 28214			
43/44	05317276	10016 Harbor Dr	Michael Elmore 10016 Harbor Dr Charlotte 28214			
43/44	05317266	10020 Harbor Dr	Geraldine Miles 10020 Harbor Dr Charlotte 28214			
43/44	05317265	10026 Harbor Dr	David Beaman Jr. 10026 Harbor Dr Charlotte 28214			

NOTES:
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Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
43/44	05317285	10104 Harbor Dr	Kenneth Sain 10104 Harbor Dr Charlotte 28214	Harbor House Public Water System PWS # NC0160211	Not Applicable	Not Applicable
43/44	05317262	10108 Harbor Dr	Melissa Urban 10108 Harbor Dr Charlotte 28214			
43/44	05317256	10122 Harbor Dr	James Munden Jr 10122 Harbor Dr Charlotte 28214			
43/44	05317255	10130 Harbor Dr	Lindy Freeman 10130 Harbor Dr Charlotte 28214			
43/44	05317254	10200 Harbor Dr	Tanya Edwards 10200 Harbor Dr Charlotte 28214			
43/44	05317253	10206 Harbor Dr	Andrew Hash 10206 Harbor Dr Charlotte 28214			
43/44	05317252	10212 Harbor Dr	Ray Morgan 10212 Harbor Dr Charlotte 28214			
43/44	05317435	10213 Harbor Dr	Sherry Smith 10213 Harbor Dr Charlotte 28214			
43/44	05317432	10207 Harbor Dr	Catherine Thigpin 10207 Harbor Dr Charlotte 28214			
43/44	05317431	10201 Harbor Dr	Cynthia Hargett 10201 Harbor Dr Charlotte 28214			
43/44	05317429	10127 Harbor Dr	Richard Greer 10127 Harbor Dr Charlotte 28214			
43/44	05317428	10123 Harbor Dr	Conrad Zane Jr. 10123 Harbor Dr Charlotte 28214			
43/44	05317427	10119 Harbor Dr	Wendy Gulledge 10119 Harbor Dr Charlotte 28214			
43/44	05317430	10129 Harbor Dr	Arlene Wade 10129 Harbor Dr Charlotte 28214			
43/44	05317248	10418 Harbor Dr	Henry Helms 10418 Harbor Dr Charlotte 28214			
43/44	05317247	10426 Harbor Dr	Amber Sullivan 10426 Harbor Dr Charlotte 28214			
43/44	05317305	10500 Harbor Dr	Edgar Soto 10500 Harbor Dr Charlotte 28214			
43/44	05317304	10514 Harbor Dr	Timothy Clark 10514 Harbor Dr Charlotte 28214			
43/44	05317303	10600 Harbor Dr	Jack Boling 10600 Harbor Dr Charlotte 28214			
43/44	05317302	10610 Harbor Dr	Thomas Hollar 10610 Harbor Dr Charlotte 28214			
43/44	05317213	10419 Harbor Dr	Abby Dillworth 10419 Harbor Dr Charlotte 28214			
43/44	05317214	10425 Harbor Dr	Frederic Lehmann 10425 Harbor Dr Charlotte 28214			
43/44	05317215	10431 Harbor Dr	Walton Bustle 10431 Harbor Dr Charlotte 28214			
43/44	05317216	10501 Harbor Dr	Mary Cook 10501 Harbor Dr Charlotte 28214			
43/44	05317217	10511 Harbor Dr	Christine Flockton 10511 Harbor Dr Charlotte 28214			
43/44	05317218	10517 Harbor Dr	John Turner Jr. 10517 Harbor Dr Charlotte 28214			
43/44	05317219	10601 Harbor Dr	Scott Mathews 10601 Harbor Dr Charlotte 28214			

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

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American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
43/44	05317220	10607 Harbor Dr	Alan Hayes 10607 Harbor Dr Charlotte 28214	Harbor House Public Water System PWS # NC0160211	Not Applicable	Not Applicable
43/44	05317221	10613 Harbor Dr	Robert Waller 10613 Harbor Dr Charlotte 28214			
43/44	05317275	5301 Pine Cape Dr	Lisa Napolitano 5301 Pine Cape Dr Charlotte 28214			
43/44	05317278	5307 Pine Cape Dr	Catherine Napolitano 5307 Pine Cape Dr Charlotte 28214			
43/44	05317244	5313 Pine Cape Dr	Phyllis Hearn 5313 Pine Cape Dr Charlotte 28214			
43/44	05317288	5319 Pine Cape Dr	Jean Stanley 5319 Pine Cape Dr Charlotte 28214			
43/44	05317289	5401 Pine Cape Dr	Elizabeth Weed 5401 Pine Cape Dr Charlotte 28214			
43/44	05317273	5407 Pine Cape Dr	Nathaniel Cordy 5407 Pine Cape Dr Charlotte 28214			
43/44	05317306	5406 Pine Cape Dr	Jimmy Brown 5406 Pine Cape Dr Charlotte 28214			
43/44	05317307	5318 Pine Cape Dr	Guy Piercy Jr. 5318 Pine Cape Dr Charlotte 28214			
43/44	05317308	5312 Pine Cape Dr	Leroy Hardin 5312 Pine Cape Dr Charlotte 28214			
43/44	05317309	5306 Pine Cape Dr	Grace Hooper 5306 Pine Cape Dr Charlotte 28214			
43/44	05317242	5325 Cold Harbor Dr	Jason Clatworthy 5325 Cold Harbor Dr Charlotte 28214			
43/44	05317310	5401 Cold Harbor Dr	Leroy Hardin 5401 Cold Harbor Dr Charlotte 28214			
43/44	05317311	5407 Cold Harbor Dr	Kenneth Chavis Sr. 5407 Cold Harbor Dr Charlotte 28214			
43/44	05317312	5413 Cold Harbor Dr	Clay Durham 5413 Cold Harbor Dr Charlotte 28214			
43/44	05317313	5419 Cold Harbor Dr	Nancy Proctor 5419 Cold Harbor Dr Charlotte 28214			
43/44	05317301	5427 Cold Harbor Dr	Bruce Greene 5427 Cold Harbor Dr Charlotte 28214			
43/44	05317222	5501 Cold Harbor Dr	Toney Carter 5501 Cold Harbor Dr Charlotte 28214			
43/44	05317223	5533 Cold Harbor Dr	William Hawley 5533 Cold Harbor Dr Charlotte 28214			
43/44	05317272	5532 Cold Harbor Dr	Robert Aycock Sr. 5532 Cold Harbor Dr Charlotte 28214			
43/44	05317227	5504 Cold Harbor Dr	Tommy Berry Jr. 5504 Cold Harbor Dr Charlotte 28214			
43/44	05317228	5500 Cold Harbor Dr	William Stokes 5500 Cold Harbor Dr Charlotte 28214			
43/44	05317229	5438 Cold Harbor Dr	William Laye 5438 Cold Harbor Dr Charlotte 28214			
43/44	05317230	5430 Cold Harbor Dr	Linda Felton 5430 Cold Harbor Dr Charlotte 28214			
43/44	05317231	5424 Cold Harbor Dr	Judith Horne 5424 Cold Harbor Dr Charlotte 28214			
43/44	05317232	5418 Cold Harbor Dr	Yvonne Becker 5418 Cold Harbor Dr Charlotte 28214			

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
	05317233	5412 Cold Harbor Dr	Kenneth Huffstetler 5412 Cold Harbor Dr Charlotte 28214	Vacant Property; no Supply Wells reported from Field Survey 7/15 & 7/19/2011	Not Applicable	Not Applicable
	05317271	5318 Cold Harbor Dr	Robert Summerville 5318 Cold Harbor Dr Charlotte 28214			
	05317238	5312 Cold Harbor Dr	Tommy West 5312 Cold Harbor Dr Charlotte 28214			
	05317211	Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05317212	10411 Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05317442	Harbor Dr	Stephen Woodruff & David Jones 10335 Harbor Dr Charlotte 28277			
	05317443	Harbor Dr	Stephen Woodruff & David Jones 10335 Harbor Dr Charlotte 28277			
	05317243	5329 Cold Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05317246	5413 Pine Cape Dr	Harris Resorts LTD PO Box 687 Columbia SC 29202			
	05316101	Moores Chapel Rd	McClain Properties LLC 1401 Biltmore Dr Charlotte 28207			
	05317445	Moores Chapel Rd	Scott Ross 6 Margo Trail Rome GA 30161			
	05317404	12518 Moores Chapel Rd	Tam and Hanh Truong 12518 Moores Chapel Rd Charlotte 28214			
	05317405	12524 Moores Chapel Rd	Larry McCarty PO Box 2643 Huntsville AL 35804	Vacant Property; no Supply Wells reported from Field Survey 7/15 & 7/19/2011		
	05324114	Moores Chapel Rd	Justin Bowers 6509 Amberwood Dr Mt Holly 28120			
	05324123	Moores Chapel Rd	Michael Mustin 12726 Moores Chapel Charlotte 28214			
	05324122	Moores Chapel Rd	Larry McElreath PO Box 547 Belmont NC 28012			
	05324111	Moores Chapel Rd	Larry McElreath PO Box 547 Belmont NC 28012			
	05317434	Harbor Dr	Sherry Smith 10213 Harbor Dr Charlotte 28214			
	05317290	Harbor Dr	Melissa Urban 10108 Harbor Dr Charlotte 28214			
	05317260	10114 Harbor Dr	James Munden Jr 10122 Harbor Dr Charlotte 28214			
	05317251	Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05311105	Moores Chapel Rd	Plantation Pipe Line Company PO Box 18616 Atlanta GA 31126-0616			
	05312201	Heavy Equipment School Rd	Leander Jones 3737 Pullman Dr Sacramento CA 95827			
	05312213	Moores Chapel Rd	Charles Auten 12108 Moores Chapel Charlotte 28214			
	05312223	4749 Charlie Hipp Rd	Joseph Henson 4455 Rt 34 Winfield WV 25213			
	05312224	Moores Chapel Rd	Charles Joye 11942 Moores Chapel Charlotte 28214			
	05313206	Performance Rd	Charles Joye 11942 Moores Chapel Charlotte 28214			

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
	05313207	Moores Chapel Rd	Charles Auten 307 Coulwood Dr Charlotte 28214		Not Applicable	Not Applicable
	05311101	Heavy Equipment School Rd	Mecklenburg County 600 E 4th St 11th Floor Charlotte 28202			
	05317274	5300 Cold Harbor Dr	Doris Henderson 435 Gum Branch Rd Charlotte 28214			
	05317239	5308 Cold Harbor Dr	Doris Henderson 435 Gum Branch Rd Charlotte 28214			
	05317237	5324 Cold Harbor Dr	Mary West 5312 Cold Harbor Dr Charlotte 28214			
	05317236	Cold Harbor Dr	Mary West 5312 Cold Harbor Dr Charlotte 28214			
	05317235	5400 Cold Harbor Dr	Edna Dellinger 1216 Farm Creek Rd Waxhaw 28173			
	05317234	5406 Cold Harbor Dr	Billie Sloan 1003 W Clayton Ave Artesia NM 88210			
	05317226	5510 Cold Harbor Dr	Barbara Hough 8209 White Ash Ct Charlotte 28227			
	05317225	5514 Cold Harbor Dr	Barbara Hough 8209 White Ash Ct Charlotte 28227			
	05317224	5536 Cold Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
50	05324112 & 13	12808 & 18 Moores Chapel Rd	Douglas Hawkins 12818 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [3,560 feet]	Drinking Use as reported by Questionnaire Depth: 120'; Casing: 100'; Installed: 1996	
100	05317409	12648 Moores Chapel Rd	David Jackson 12648 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by NCDENR; [3,000 feet] 35.25147, -81.006634	Drinking Use as Reported by NCDENR Depth: Unknown Installed: Unknown	
	05312218	4779 Charlie Hipp Rd	Plantation Pipe Line Company PO Box 18616 Atlanta GA 31126-0616	Survey mailed, no response	Not Applicable	
	05313202	4001 Performance Rd	Mallard Creek Investors PO Box 6066 Charlotte 28207	Survey mailed, no response, telephone interview 7/19/2011 - Drinking Water from CMUD		
51	5324110	12920 Moores Chapel Rd	Mark Biggs 12920 Moores Chapel Road Charlotte 29214	In use drinking water supply well reported by Mailed Survey; [3,600 feet]	Drinking Use as reported by Questionnaire Depth: Unknown; Casing: Unknown; Installed: Unknown	
	5324109	12930 Moores Chapel Rd	Clemmie Marrow 702 Beatty Rd Mt. Holly NC	Telephone Interview 7/15/2011; No Water on Site	Not Applicable	

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data American Truetzschler Facility Charlotte, North Carolina											
Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		**6,000**	**0.3**	**70**	**3**	**7**	**3**	**0.7**	**3**	**200**	**2,000**
Raw Influent	13-Jun-11	NA	NA	NA	NA	**28.5**	NA	< 1	< 1	1.3	NA
	27-Sep-11	< 25	< 1	< 1	< 1	**25.9**	NA	< 1	< 1	1.2	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	**16.6**	< 150	< 1	< 1	1.1	< 1
	14-Mar-12	< 2.2	< 0.25	< 0.14	< 0.11	**29.2**	< 78.4	< 0.46	< 0.47	1.1	< 0.2
	28-Jun-12	< 2.2	< 0.25	< 0.14	< 0.11	**21.7**	**17**	< 0.46	< 0.47	0.96 J	< 0.2
	19-Sep-12	< 4.6	< 0.38	< 0.32	< 0.28	**13**	**13**	< 0.37	< 0.4	0.61	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	**20**	**17**	< 0.37	< 0.4	0.81 J	< 1.2
	21-Mar-13	< 4.6	< 0.38	< 0.32	< 0.28	**22**	**24**	< 0.37	< 0.4	0.65 J	< 1.2
	21-Jun-13	< 10	< 0.38	< 0.32	< 0.28	**17**	**15**	< 0.38	< 0.4	0.55 J	< 1.2
	4-Feb-14	1.6 J	< 0.16	< 0.086	< 0.13	**24**	**13**	< 0.2	< 0.15	0.55	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**21**	**12**	< 0.37	< 0.4	0.64 J	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**23**	**20**	< 0.37	< 0.4	0.68 J	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**24**	**19**	< 0.37	< 0.4	0.63 J	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	**8.3**	**17**	< 0.37	< 0.4	0.69 J	< 1.2
	22-May-14	2.4 J	< 0.16	< 0.086	< 0.15	**24**	**15**	< 0.2	< 0.15	0.69	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	**16**	**17**	< 0.37	< 0.15	0.49 J	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	**26**	**16**	< 0.37	< 0.4	0.74 J	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	**17**	**20**	< 0.37	< 0.4	0.52 J	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**14**	**26**	< 0.37	< 0.4	0.57 J	< 1.2
	15-Jul-14	< 10	< 0.38	0.51 J	< 0.28	**18**	**15**	< 0.37	< 0.4	0.56 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**14**	**15**	< 0.37	< 0.4	0.51 J	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**14**	**16**	< 0.37	< 0.4	0.52 J	< 1.2
	12-Aug-14	13 J	< 0.38	< 0.32	< 0.28	**22**	**14**	< 0.37	< 0.4	0.64 J	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	**17**	**13**	< 0.37	< 0.4	0.46 J	< 1.2
	29-Oct-14	2.7 J	< 0.16	< 0.086	< 0.15	**7.6**	**9.1**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	**11**	**9.3**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.2 J	< 0.16	< 0.086	< 0.15	**8.8**	**10**	< 0.2	< 0.15	< 0.094	< 0.13
Post Ozone	22-May-14	4.1 J	< 0.16	< 0.086	< 0.15	< 0.11	**14**	0.13	< 0.15	0.83	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.57 J	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**15**	< 0.37	< 0.4	0.77 J	< 1.2
	10-Jun-14	22 J	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.46 J	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**14**	< 0.37	< 0.4	0.52 J	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**14**	< 0.37	< 0.4	0.59 J	< 1.2
	29-Oct-14	3 J	< 0.16	< 0.086	< 0.15	< 0.19	**7.6**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**9.3**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.9 J	< 0.16	< 0.086	< 0.15	< 0.19	**9.1**	< 0.2	< 0.15	< 0.094	< 0.13

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data American Truetzschler Facility Charlotte, North Carolina											
Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		6,000	0.3	70	3	7	3	0.7	3	200	2,000
Post Chlorine	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**13**	**20**	< 0.37	< 0.4	0.5 J	< 1.2
	15-Jul-14	< 10	< 0.38	0.53 J	< 0.28	**20**	**15**	< 0.37	< 0.4	0.62 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**12**	**14**	< 0.37	< 0.4	0.51 J	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**18**	**17**	< 0.37	< 0.4	0.54 J	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**17**	< 0.37	0.51 J	0.62 J	< 1.2
	22-Oct-14	< 10	< 0.38	1.5 J	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.48 J	< 1.2
	29-Oct-14	2.4 J	< 0.16	0.41 J	< 0.15	< 0.19	**12**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	1.1 J	< 0.28	< 0.4	**7.8**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	6.2 J	< 0.16	1.4	< 0.15	< 0.19	**10**	< 0.2	< 0.15	< 0.094	< 0.13
Post UV	4-Feb-14	1.5 J	< 0.16	< 0.086	< 0.15	**19**	**11**	< 0.2	< 0.15	0.55	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**8.2**	**9.9**	< 0.37	< 0.4	0.66 J	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**16**	**21**	< 0.37	< 0.4	0.58 J	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**18**	**18**	< 0.37	< 0.4	0.56 J	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	**23**	**16**	< 0.37	< 0.4	0.63 J	< 1.2
	22-May-14	3.7 J	< 0.16	< 0.086	< 0.15	< 0.11	**16**	< 0.2	< 0.15	0.72	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.57 J	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	0.45 J	**15**	< 0.37	< 0.4	0.84 J	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	0.45 J	**18**	< 0.37	< 0.4	0.44 J	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**13**	**19**	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.52 J	< 0.28	**14**	**15**	< 0.37	< 0.4	0.53 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**13**	**15**	< 0.37	< 0.4	0.51 J	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**18**	**17**	< 0.37	< 0.4	0.61 J	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**20**	< 0.37	0.49 J	0.66 J	< 1.2
Primary GAC	13-Jun-11	NA	NA	NA	NA	1.2	NA	< 1	< 1	< 1	NA
	27-Sep-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	< 5	< 150	< 1	< 1	< 1	< 1
	14-Mar-12	4.4 J	< 0.25	< 0.14	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	28-Jun-12	< 2.2	< 0.25	< 0.14	< 0.11	0.96 J	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	19-Sep-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**13**	< 0.37	< 0.4	< 0.32	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Mar-13	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**22**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Jun-13	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.61	< 0.37	< 0.4	< 0.32	< 1.2
	4-Feb-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.4 J	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.62 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.1 J	< 0.37	< 0.4	< 0.32	< 1.2

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data American Truetzschler Facility Charlotte, North Carolina											
Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		6,000	0.3	70	3	7	3	0.7	3	200	2,000
Primary GAC	22-May-14	3 J	< 0.16	< 0.086	< 0.15	< 0.19	2.8 J	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**4.7**	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**5.2**	< 0.37	< 0.4	< 0.32	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.4 J	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.52 J	< 0.28	**19**	**15**	< 0.37	< 0.4	0.62 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.5 J	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	2.1 J	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**3.7**	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**7.2**	< 0.37	< 0.4	< 0.32	< 1.2
	29-Oct-14	1.6 J	< 0.16	< 0.086	< 0.15	< 0.19	**9.6**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	0.52 J	< 0.28	< 0.4	**8.1**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	4 J	< 0.16	1.3	< 0.15	< 0.19	**10**	< 0.20	< 0.15	< 0.094	< 0.13
Secondary GAC	13-Jun-11	NA	NA	NA	NA	< 1	NA	< 1	< 1	< 1	NA
	27-Sep-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	< 5	< 150	< 1	< 1	< 1	< 1
	14-Mar-12	< 2.2	< 0.25	< 0.14	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	28-Jun-12	< 2.2	< 0.25	< 0.14	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	19-Sep-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**15**	< 0.37	< 0.4	< 0.32	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Mar-13	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**20**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Jun-13	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	4-Feb-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-May-14	2.3 J	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.66 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.49 J	< 0.28	< 0.4	1 J	< 0.37	< 0.4	< 0.32	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.63 J	< 0.37	< 0.4	< 0.32	< 1.2
	29-Oct-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	**9.8**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**11**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.6 J	< 0.16	< 0.086	< 0.15	< 0.19	**11**	< 0.2	< 0.15	< 0.094	< 0.13

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data American Truetzschler Facility Charlotte, North Carolina											
Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		6,000	0.3	70	3	7	3	0.7	3	200	2,000
Tertiary GAC	4-Feb-14	1.2 J	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-May-14	2.2 J	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.63 J	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.64 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.5 J	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	29-Oct-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	**5.8**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**11**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.4 J	< 0.16	< 0.086	< 0.15	< 0.19	**11**	< 0.2	< 0.15	< 0.094	< 0.13
Effluent (Post Chlorination)	13-Jun-11	NA	NA	NA	NA	< 1	NA	< 1	< 1	< 1	NA
	27-Sep-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	11-Oct-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	< 5	< 150	< 1	< 1	< 1	< 1
	14-Mar-12	6.5 J	< 0.25	0.37 J	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	28-Jun-12	< 2.2	< 0.25	0.66 J	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	19-Sep-12	< 4.6	< 0.38	0.38 J	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**4.9**	< 0.37	< 0.4	< 0.32	< 1.2
	4-Jan-13	NA	NA	NA	NA	NA	**6.6**	NA	NA	NA	NA
	15-Jan-13 Eff A	NA	NA	NA	NA	NA	< 0.6	NA	NA	NA	NA
	15-Jan-13 Eff B	NA	NA	NA	NA	NA	1.9	NA	NA	NA	NA
	6-Feb-13	NA	NA	NA	NA	NA	< 0.6	NA	NA	NA	NA
	21-Mar-13	NA	< 0.5	NA	NA	< 0.5	< 0.6	< 0.5	< 0.5	< 0.5	NA
	30-Apr-13	NA	NA	NA	NA	NA	< 0.6	NA	NA	NA	NA
	30-May-13	NA	NA	NA	NA	NA	**5.6**	NA	NA	NA	NA
	21-Jun-13	NA	< 0.5	NA	NA	< 0.5	**7.4**	< 0.5	< 0.5	< 0.5	NA
	27-Jun-13	NA	NA	NA	NA	NA	0.62	NA	NA	NA	NA
	4-Feb-14	2.3 J	< 0.16	< 0.086	< 0.15	< 0.19	**8.6**	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.82 J	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	0.42 J	< 0.28	< 0.4	0.91 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.2 J	< 0.37	< 0.4	< 0.32	< 1.2
	22-May-14	3.3 J	< 0.16	0.72	< 0.15	< 0.19	1.6 J	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	0.68 J	< 0.28	< 0.4	1.3 J	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	0.43 J	< 0.28	< 0.4	**4.3**	< 0.37	< 0.4	< 0.32	< 1.2

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		**6,000**	**0.3**	**70**	**3**	**7**	**3**	**0.7**	**3**	**200**	**2,000**
Effluent (Post Chlorination)	10-Jun-14	< 10	< 0.38	0.84 J	0.51 J	< 0.4	1.3 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	0.38 J	< 0.28	< 0.4	0.95	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.47 J	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.66 J	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**11**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.4 J	< 0.16	< 0.086	< 0.15	< 0.19	**11**	< 0.20	< 0.15	< 0.094	< 0.13

NOTES:

Data provided in micrograms per liter or µg/l
Highlighted data exceeded NCAC 2L Standards
1,1-DCE = 1,1-Dichloroethene
Highlighted data exceeded NCAC 2L Standards
J - Estimated concentration above the adjusted method detection limit and below the adjusted reported limit
NA - Not Analyzed
NCAC = North Carolina Administrative Code

1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
* - Denotes effluent analyzed by EPA Method 524 in lieu of COC list by EPA Method 8260

Additional results from sampling events:

9/11 Event: Effluent also indicated 1.1 ppb Bromodichloromethane and 1.5 ppb Dibromochloromethane
3/12 Event: Effluent also indicated 0.59 J ppb Dibromochloromethane
6/12 Event: Effluent also indicated 1.5 ppb Dibromochloromethane and 0.75 J ppb Bromoform

Table 7 - Private Water Supply Well Analytical Data
American Truetzschler, Inc.
Charlotte, North Carolina
Excel Project No. 201008

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		1,1-DCE	PCE	TCE	Carbon Tetrachloride	TCFM	Acetone	Chloromethane	1,4-Dioxane	1,1,1-TCA	Chloroform
NCAC 2L Standards		**7**	**0.7**	**3**	**0.3**	**2,000**	**6,000**	**3**	**3**	**200**	**70**
41 (ATSW)	21-Jun-11	< 1	< 1	< 1	NA	NA	NA	NA	NA	< 1	NA
	27-Sep-11	< 1	< 1	< 1	NA	NA	NA	NA	NA	< 1	NA
	20-Dec-11	< 1	< 1	< 1	NA	NA	NA	NA	NA	< 1	NA
	14-Mar-12	< 0.56	< 0.46	< 0.47	NA	NA	NA	NA	NA	< 0.48	NA
	17-Jul-12	< 0.56	< 0.46	< 0.47	NA	NA	NA	NA	NA	< 0.48	NA
	19-Sep-12	< 0.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	**20**	< 0.32	< 0.32
	4-Jan-13	< 0.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	**23**	< 0.32	< 0.32
	22-Mar-13	< 0.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	**30**	< 0.32	< 0.32
	20-Jun-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	3	0.42	**53**	< 0.094	2.7
	5-Jan-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	6.6 J	< 0.15	**3**	< 0.094	< 0.086
	10-Dec-15	**32.8**	**1.71**	0.666	< 0.16	< 0.13	< 1.05	< 0.15	**22.8**	0.544	0.459 J
	8-Mar-16	< 0.19	0.206 J	< 0.15	< 0.16	< 0.13	5.67 J	< 0.15	2.66 J	< 0.094	< 0.086
	7-Jun-16	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	1.48 J	< 0.15	< 0.6	< 0.094	< 0.086
HH1 - Influent (44)	30-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	7.5 J	< 0.11	< 1.2	< 0.48	< 0.14
3	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	4.6 J	< 0.11	< 1.2	< 0.48	< 0.14
4	25-Jul-12	< 0.56	< 0.46	< 0.47	**0.40 J**	< 0.2	5.1 J	< 0.11	< 1.2	< 0.48	< 0.14
4 Re-Analysis		< 0.56	< 0.46	< 0.47	**0.42 J**	< 0.2	< 2.2	< 0.11	--	< 0.48	< 0.14
5	7-Aug-12	< 0.56	**0.84 J**	< 0.47	**0.31 J**	< 0.2	5.9 J	< 0.11	< 1.2	< 0.48	< 0.14
5 Re-Analysis		< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.9 J	< 0.11	--	< 0.48	< 0.14
15 (WSW-1)*	26-Mar-12	< 1	< 1	< 1	< 1	< 1	< 20	< 1	--	< 0.48	< 0.14
17	7-Aug-12	< 0.56	0.53 J	< 0.47	< 0.25	< 0.2	12.6 J	< 0.11	< 1.2	< 0.48	< 0.14
	7-Jun-16	< 0.19	< 0.2	< 0.15	< 0.16	0.788	1.51 J	< 0.15	< 0.6	< 0.094	< 0.086
18	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	2.4	4.8 J	< 0.11	< 1.2	< 0.48	< 0.14
19	25-Jul-12	< 0.56	**0.72 J**	< 0.47	< 0.25	4.7	5.3 J	0.21 J	< 1.2	< 0.48	< 0.14
19 Re-Analysis		< 0.56	0.47 J	< 0.47	< 0.25	2.0	9.1 J	< 0.11	--	< 0.48	< 0.14
21	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	1.1	4.8 J	< 0.11	< 1.2	< 0.48	< 0.14
	20-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	1.2	2.6 J	< 0.15	< 0.6	< 0.94	< 0.086
24	20-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	2.7 J	0.6	< 0.6	< 0.94	< 0.086
25	17-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	1.2 J	< 0.15	< 0.6	< 0.94	< 0.086
32	7-Jun-16	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
33	1-May-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
	21-Jun-16	< 0.4	< 0.37	< 0.4	< 0.38	< 1.2	< 10	< 0.28	< 0.6	< 0.32	< 0.32
34	28-Oct-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
35	9-Aug-12	3.1	< 0.46	< 0.47	< 0.25	< 0.2	8.7 J	< 0.11	**11.9**	< 0.48	< 0.14
	18-Oct-12	5.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	17-Dec-12	4.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	21-Jun-13	3.7	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.81	< 0.094	< 0.086
	20-Dec-13	3.7	< 0.2	< 0.15	< 0.16	< 0.13	3.1 J	< 0.15	< 0.6	< 0.94	< 0.086
	18-Jun-14	4.1	< 0.2	< 0.15	< 0.16	< 0.13	1.5 J	< 0.15	0.95 J	< 0.094	< 0.086
	26-Dec-14	3.8	< 0.2	< 0.15	< 0.16	< 0.13	1.0 J	< 0.15	< 0.6	< 0.094	< 0.086
	24-Jun-15	3.79	< 0.37	< 0.4	< 0.38	< 1.2	< 10	< 0.28	< 0.6	< 0.319	< 0.32
	22-Dec-15	5.59	0.233 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.83 J	< 0.094	< 0.086
	21-Jun-16	6.19	< 0.37	< 0.4	< 0.38	< 1.2	< 10	< 0.28	< 0.6	< 0.32	< 0.32

NOTES:

* - Sample from supply well 15 (WSW-1) was collected by Excel as part of a separate sampling event for property transfer assessment.
Data provided in ug/l
ATSW = American Truetzschler Supply Well
Highlighted data exceeded NCAC 2L Standards
J - Estimated concentration above the adjusted method detection limit and below the adjusted reported limit

1,1-DCE = 1,1-Dichloroethene
NCAC = North Carolina Administrative Code
PCE = Tetrachloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene

TCFM = Trichlorofluoromethane

Table 7 - Private Water Supply Well Analytical Data (Continued)

American Truetzschler, Inc.
Charlotte, North Carolina
Excel Project No. 201008

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		1,1-DCE	PCE	TCE	Carbon Tetrachloride	TCFM	Acetone	Chloromethane	1,4-Dioxane	1,1,1-TCA	Chloroform
NCAC 2L Standards		**7**	**0.7**	**3**	**0.3**	**2,000**	**6,000**	**3**	**3**	**200**	**70**
36	25-Jul-12	**7.6**	< 0.46	< 0.47	< 0.25	< 0.2	4.4 J	< 0.11	< 1.2	< 0.48	< 0.14
	5-Nov-12	5.9	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	17-Dec-12	6.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	21-Jun-13	4.8	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
	20-Dec-13	3.8	< 0.2	< 0.15	< 0.16	< 0.13	1.5 J	< 0.15	< 0.6	< 0.94	< 0.086
	18-Jun-14	6.1	< 0.2	< 0.15	< 0.16	< 0.13	2.1 J	< 0.15	< 0.6	< 0.94	< 0.086
	26-Dec-14	4.9	< 0.2	< 0.15	< 0.16	< 0.13	1.1 J	< 0.15	< 0.6	< 0.094	< 0.086
	24-Jun-15	5.82	< 0.37	< 0.4	< 0.38	< 1.2	< 10	< 0.28	< 0.6	< 0.319	< 0.32
	10-Dec-15	5.7	0.248 J	< 0.15	< 0.16	< 0.13	< 1.05	< 0.15	1.07 J	< 0.094	< 0.086
	7-Jun-16	5.81	0.243 J	< 0.15	< 0.16	< 0.13	1.65 J	< 0.15	< 0.6	< 0.094	< 0.086
37-INF	17-Oct-12	**15**	0.44 J	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	1 J	< 0.32	< 0.32
	5-Nov-12	**14**	0.43 J	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	0.96 J	< 0.32	< 0.32
	17-Dec-12	**14**	0.38 J	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	0.93 J	< 0.32	< 0.32
	21-Jun-13	**13**	0.34 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.2	0.32 J	< 0.086
	3-Dec-13	**14**	< 0.2	< 0.15	< 0.16	< 0.13	2.1 J	< 0.15	1.2 J	< 0.094	< 0.086
	13-Mar-14	**10**	0.37 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.92 J	< 0.094	< 0.086
	22-Oct-14	**10**	0.64	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.84 J	< 0.094	< 0.086
	26-Dec-14	**10**	0.37 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
	15-Jun-15	**8.68**	0.405 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.02 J	< 0.094	< 0.086
	22-Dec-15	**16**	0.64	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.26 J	0.197 J	< 0.086
37-Eff	3-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	NA	< 0.094	< 0.14
	13-Mar-14	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.14
	22-Oct-14	< 0.19	< 0.2	<0.15	< 0.16	< 0.13	1.3 J	< 0.15	< 0.6	< 0.094	< 0.086
	26-Dec-14	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.63 J	< 0.094	< 0.086
	15-Jun-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.5 J	< 0.094	< 0.086
	22-Dec-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.73 J	< 0.094	< 0.086
	7-Jun-16	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	1.33 J	< 0.15	1.58 J	< 0.094	< 0.086
39	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.9 J	< 0.11	< 1.2	< 0.48	< 0.14
40	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	7.7 J	0.13 J	< 1.2	< 0.48	< 0.14
45	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.6 J	< 0.11	< 1.2	< 0.48	< 0.14
46	26-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.6 J	< 0.12	< 1.3	< 0.48	< 0.14
49	20-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	1.3 J	< 0.15	< 0.6	< 0.94	< 0.086

NOTES:

* - Sample from supply well 15 (WSW-1) was collected by Excel as part of a separate sampling event for property transfer assessment.
Data provided in ug/l
ATSW = American Truetzschler Supply Well
Highlighted data exceeded NCAC 2L Standards
J - Estimated concentration above the adjusted method detection limit and below the adjusted reported limit.

1,1-DCE = 1,1-Dichloroethene
NA = Not Analyzed
NCAC = North Carolina Administrative Code
PCE = Tetrachloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
TCFM = Trichlorofluoromethane

Table 8 - Groundwater Monitoring Plan
American Truetzschler Facility
Charlotte, North Carolina

	Monitoring Location	Screen Interval (feet)	Sampling Frequency	Sampling Parameters
MONITORING WELLS	MW-1S	30.0 – 50.0	A*	VOC
	MW-1D	NDA	A	VOC
	MW-1V	NDA	A	VOC
	MW-2S	20.0 – 40.0	A*	VOC
	MW-2D	142.0 – 147.0	A	VOC
	MW-2V	NDA	I	VOC
	MW-3S	30.0 – 50.0	I	VOC
	MW-3D	147.0 – 162.0	I	VOC
	MW-3V	NDA	A	VOC
	MW-4S	30.0 – 50.0	A	VOC
	MW-4D	106.0 – 112.0	A	VOC
	MW-5	65.0 – 85.0	I	VOC
	MW-5S	20.0 – 40.0	A*	VOC
	MW-5D	110.0 – 115.0	A	VOC
	MW-6S	20.0 – 40.0	A	VOC
	MW-6D	126.0 – 131.0	A	VOC
	MW-7	40.0 – 50.0	I	VOC
	MW-7S	21.0 – 41.0	A*	VOC
	MW-8	135.0 – 155.0	A	VOC
	MW-9	15.0 – 30.0	A	VOC
	MW-10	160.0 – 185.0	A	VOC
	MW-18	78.5 – 83.5	I	VOC
	MW-19	25.5 – 35.5	I	VOC
	MW-20	126.0 – 136.0	I	VOC
	MW-21	NDA	I	VOC
	MW-22	95.0 - 100.0	A	VOC
	MW-23	125.0 - 135.0	A	VOC
	MW-24	130.0 - 140.0	A	VOC
	MW-25**	NDA	A	VOC
	PW-1	NDA	I	VOC
	RW-1	NDA	M***	VOC
	UVB-400****	NDA	A	VOC
WATER SUPPLY WELLS	WSW-17	NDA	S	VOC
	WSW-32	NDA	S	VOC
	WSW-33	NDA	S	VOC
	WSW-35	NDA	S	VOC
	WSW-36	NDA	S	VOC
	WSW-37-INF	NDA	S	VOC
	WSW-37-EFF	NDA	S	VOC
	WSW-41-INF	NDA	S	VOC
	WSW-41-ATSW	NDA	S	VOC

Frequency:	A	Annualy
	S	Semi-annually
	M	Monthly
	I	Inactive, not sampled
	*	Denotes a well that has historically been dry. If water is observed, the well will be sampled.
	**	Denotes proposed well installed to replace MW-7.
	***	RW-1 influent and effluent is sampled on a monthy basis as part of ongoing remediation system operation and monitoring
	****	UVB-400 is a former treatment well within the suspected source area. Samples should be collected from shallow and deep intervals, as available.
Parameters:	VOC	Volatile organics by EPA method 8260B and 1,4-dioxane by EPA method 8260B SIM.
Notes:	-	Water levels measured in all wells
	-	GW Monitoring Plan to be updated annually as needed
	-	Field parameters collected for all wells that are sampled and include pH, Conductivity, ORP, DO, temperature, and turbidity

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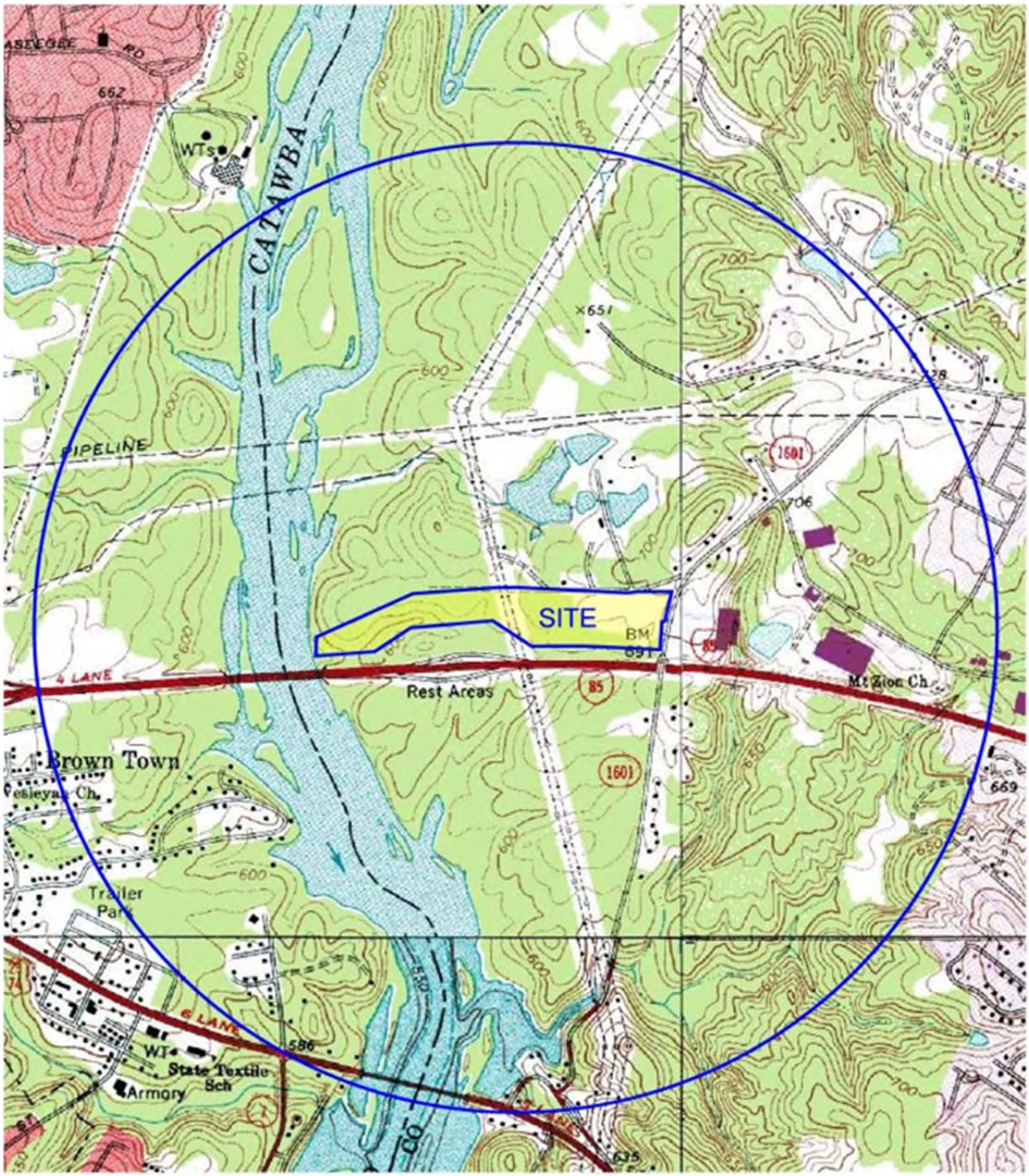
Figure 7 - Deep Water Table Contour Map

Figure 8 - PCE in Groundwater Map

Figure 9 - 1,1-DCE in Groundwater Map

Figure 10 - 1,4-Dioxane in Groundwater Map



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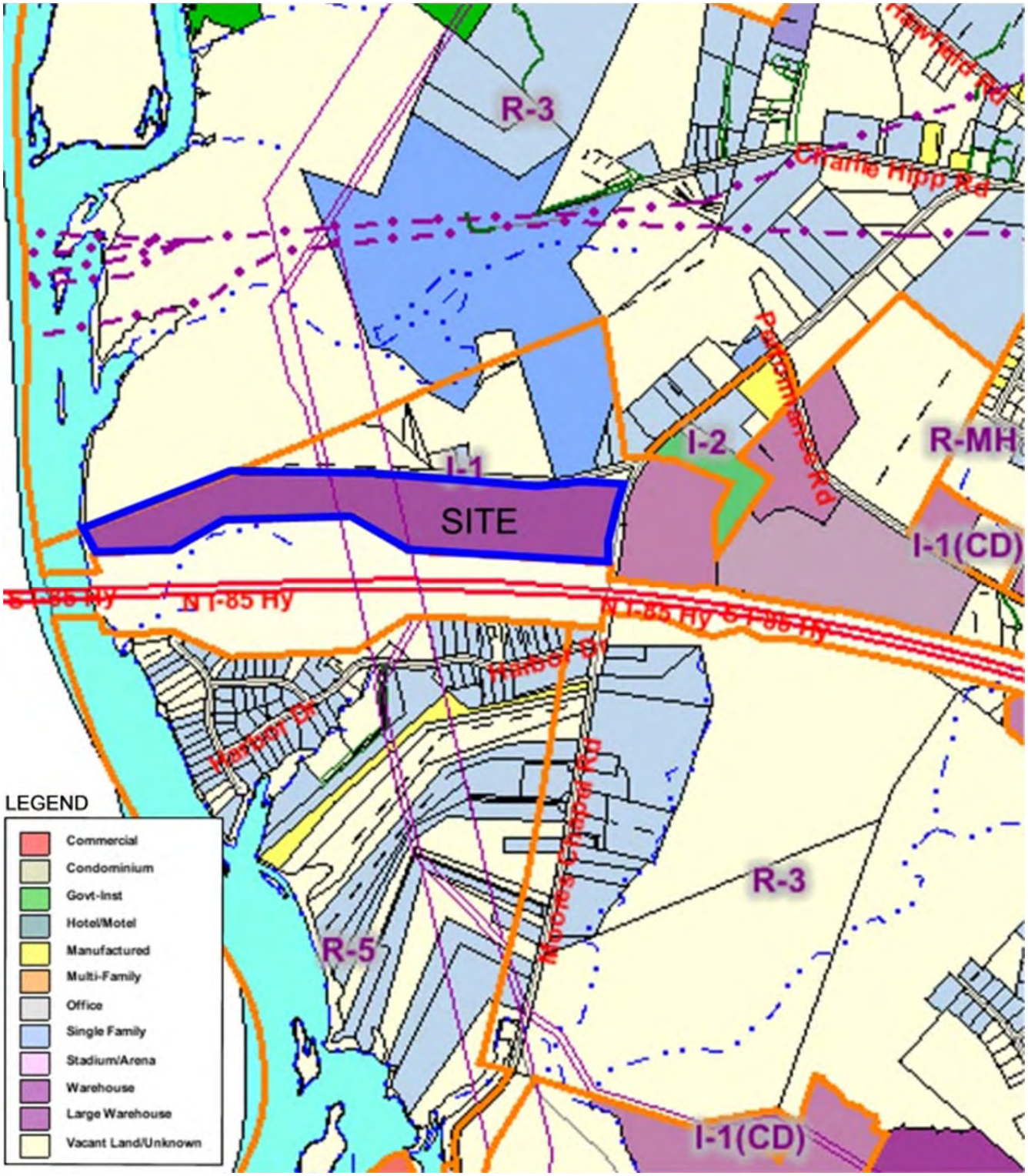
625 HUNTSMAN COURT
GASTONIA, NC 28054
(704) 853-0800

Figure 1 - Site Topographic Map & One Mile Radius

Excel Project Number 201008

Source: www.terraserver-usa.com

⇑ N



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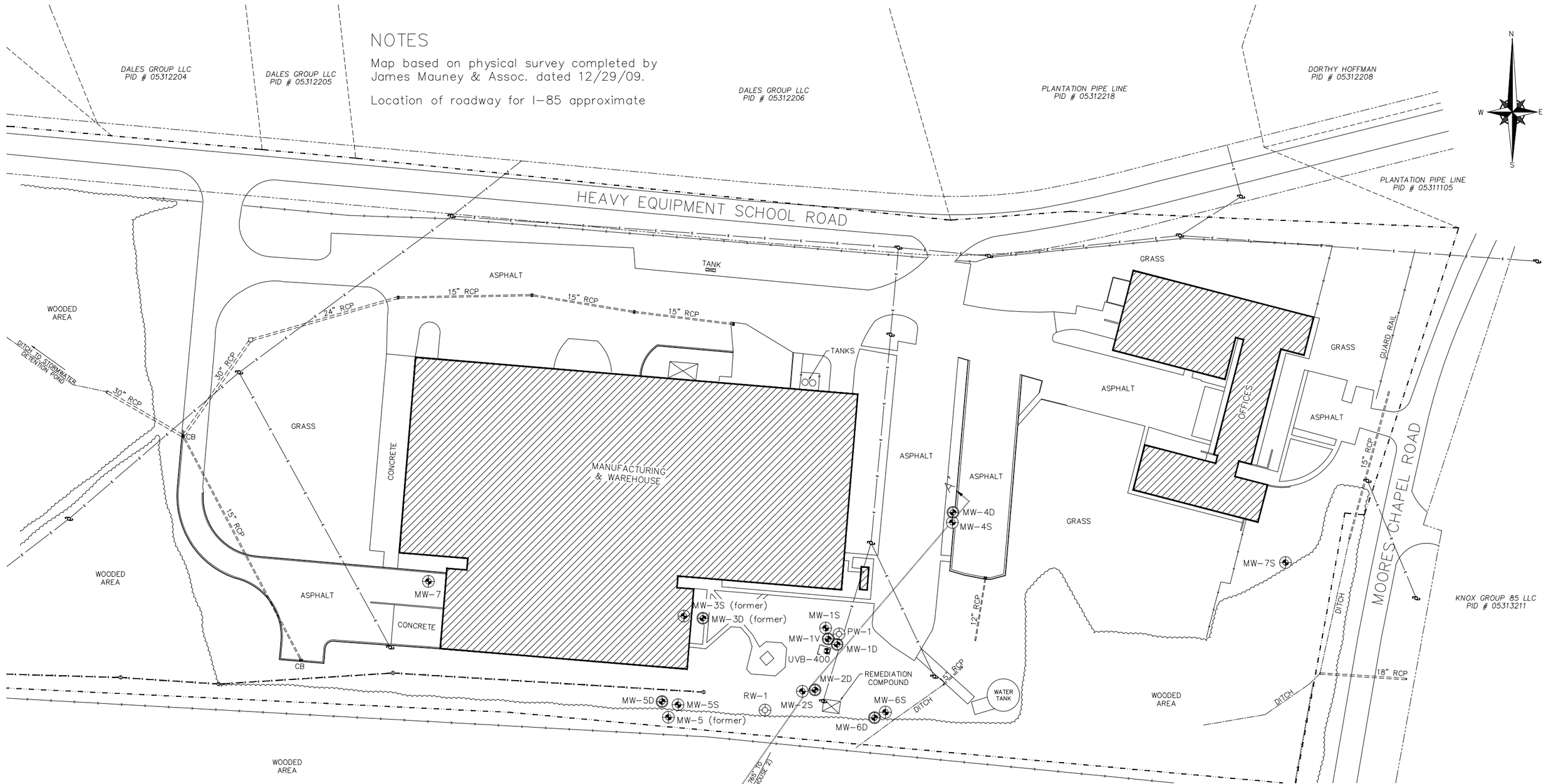
GASTONIA, NC 28054
(704) 853-0800

Figure 2 - Site Location & Nearby Land Use Map

Excel Project Number 201008

Source: www.charmeck.org

⇑ N



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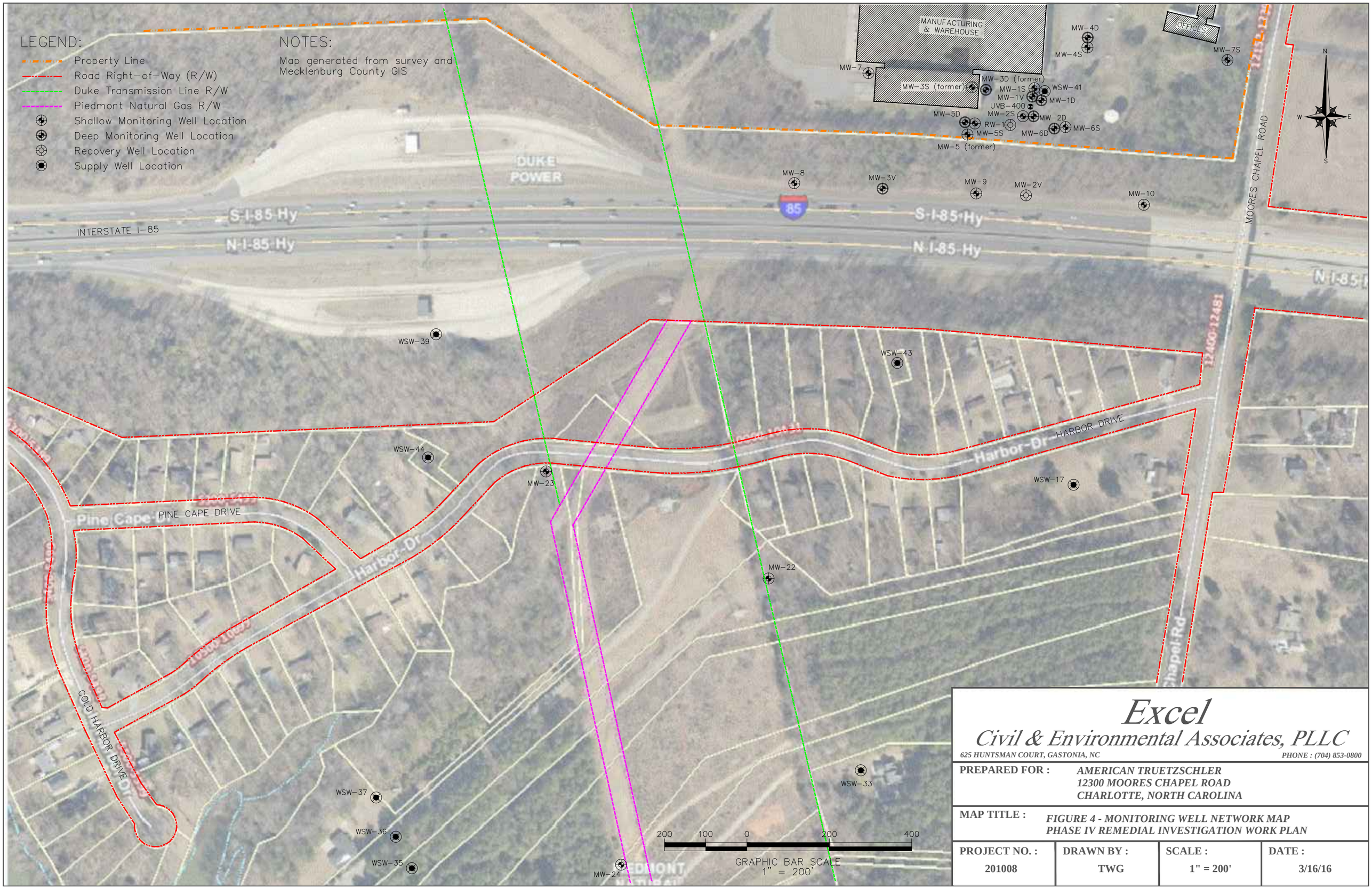
PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 3 - SITE PLAN*
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 100'	3/16/16



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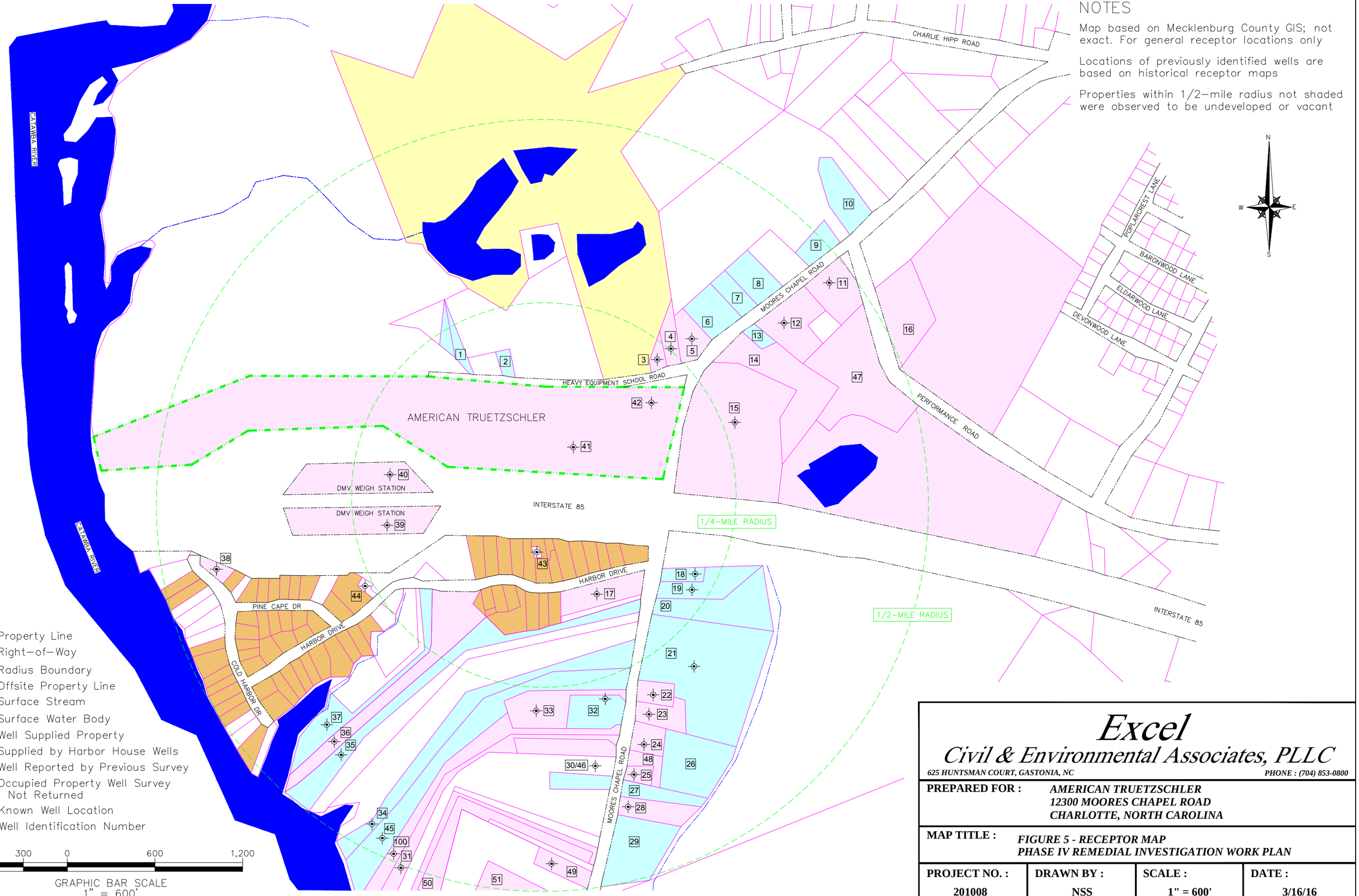
PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 4 - MONITORING WELL NETWORK MAP*
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16



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PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 5 - RECEPTOR MAP*
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	NSS	1" = 600'	3/16/16

NOTES

Map based on physical survey completed by James Mauney & Assoc. dated 12/29/09.

Location of roadway for I-85 approximate

Data from liquid levels collected 12/16-17/13

DALES GROUP LLC PID # 05312204
DALES GROUP LLC PID # 05312205
DALES GROUP LLC PID # 05312206
PLANTATION PIPE LINE PID # 05312218
DORTHY HOFFMAN PID # 05312208
PLANTATION PIPE LINE PID # 05311105
KNOX GROUP 85 LLC PID # 05313211

HEAVY EQUIPMENT SCHOOL ROAD

MOORES CHAPEL ROAD

INTERSTATE I-85 (SOUTH BOUND)

MANUFACTURING & WAREHOUSE

OFFICES

ASPHALT
GRASS
CONCRETE
WOODED AREA
TANK
TANKS
WATER TANK
REMEDIATION COMPOUND
GUARD RAIL
DITCH
DITCH TO STORMWATER DETENTION POND
CB
15" RCP
18" RCP
24" RCP
30" RCP
12" RCP

MW-4D
MW-4S [153.95']
MW-7S [171.39']
MW-7 [DRY]
MW-3S (former)
MW-3D (former)
MW-1S [DRY]
MW-1V
MW-1D
PW-1
UVB-400
MW-2S [DRY]
MW-2D
RW-1 [101.83']
MW-5S [DRY]
MW-5D
MW-5 (former)
MW-6S [159.37']
MW-6D
MW-8 [133.20']
MW-3V
MW-9 [162.47']
MW-2V
MW-10

110' 120' 130' 140' 150' 160' 170' 158'

LEGEND

- Property Line
- Right-of-Way/Easement
- Overhead Electric
- Sanitary Sewer
- Fence Line
- Power Pole
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Recovery Well Location
- [100.00'] Water Table Elevation
- Groundwater Flow Direction

100 50 0 100 200

GRAPHIC BAR SCALE
1" = 100'

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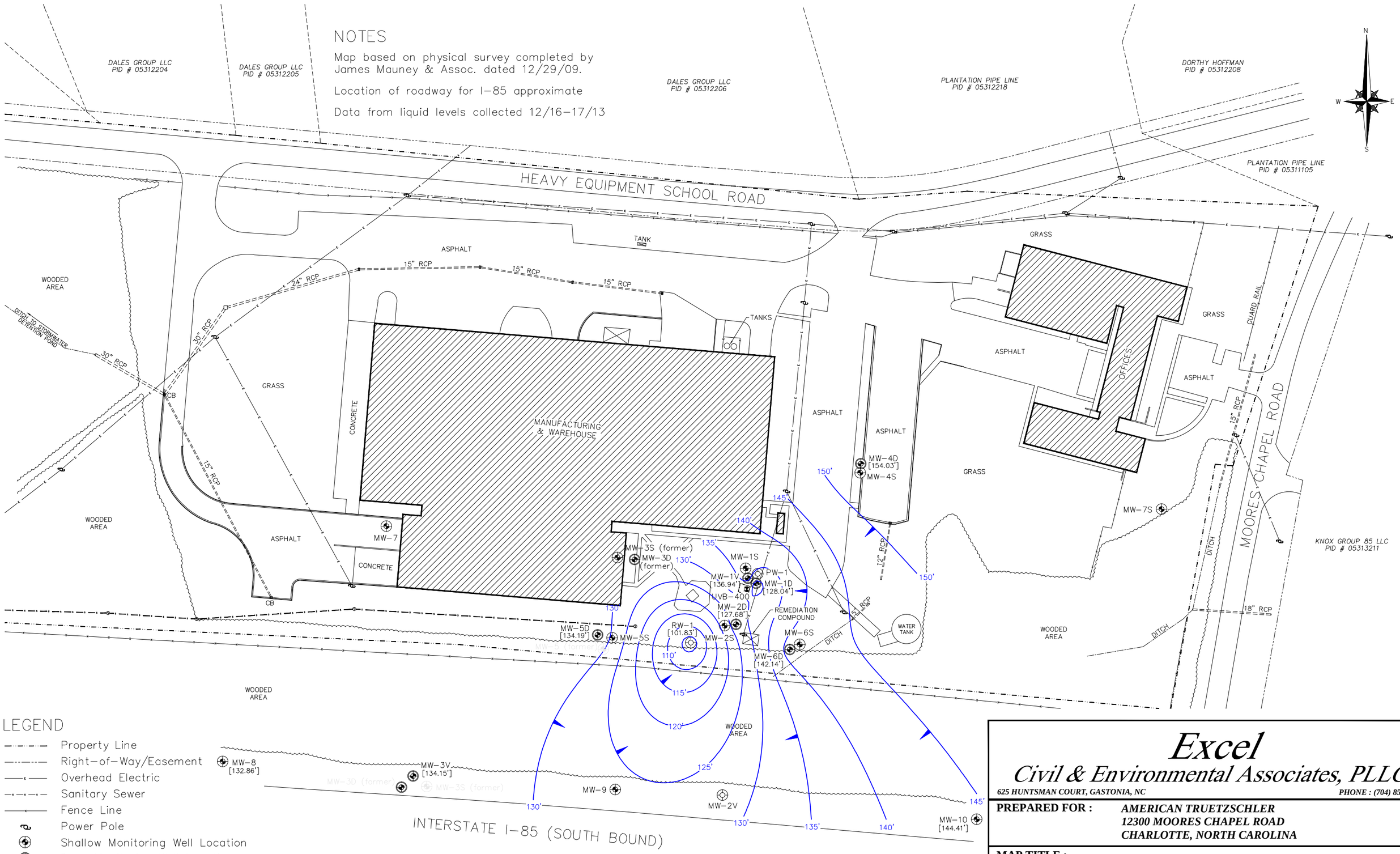
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 6 - SHALLOW WATER TABLE CONTOUR MAP - 12/13*
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	NSS	1" = 100'	3/16/16



LEGEND

- Property Line
- Right-of-Way/Easement
- Overhead Electric
- Sanitary Sewer
- Fence Line
- Power Pole
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Recovery Well Location
- [100.00'] Water Table Elevation
- Groundwater Flow Direction

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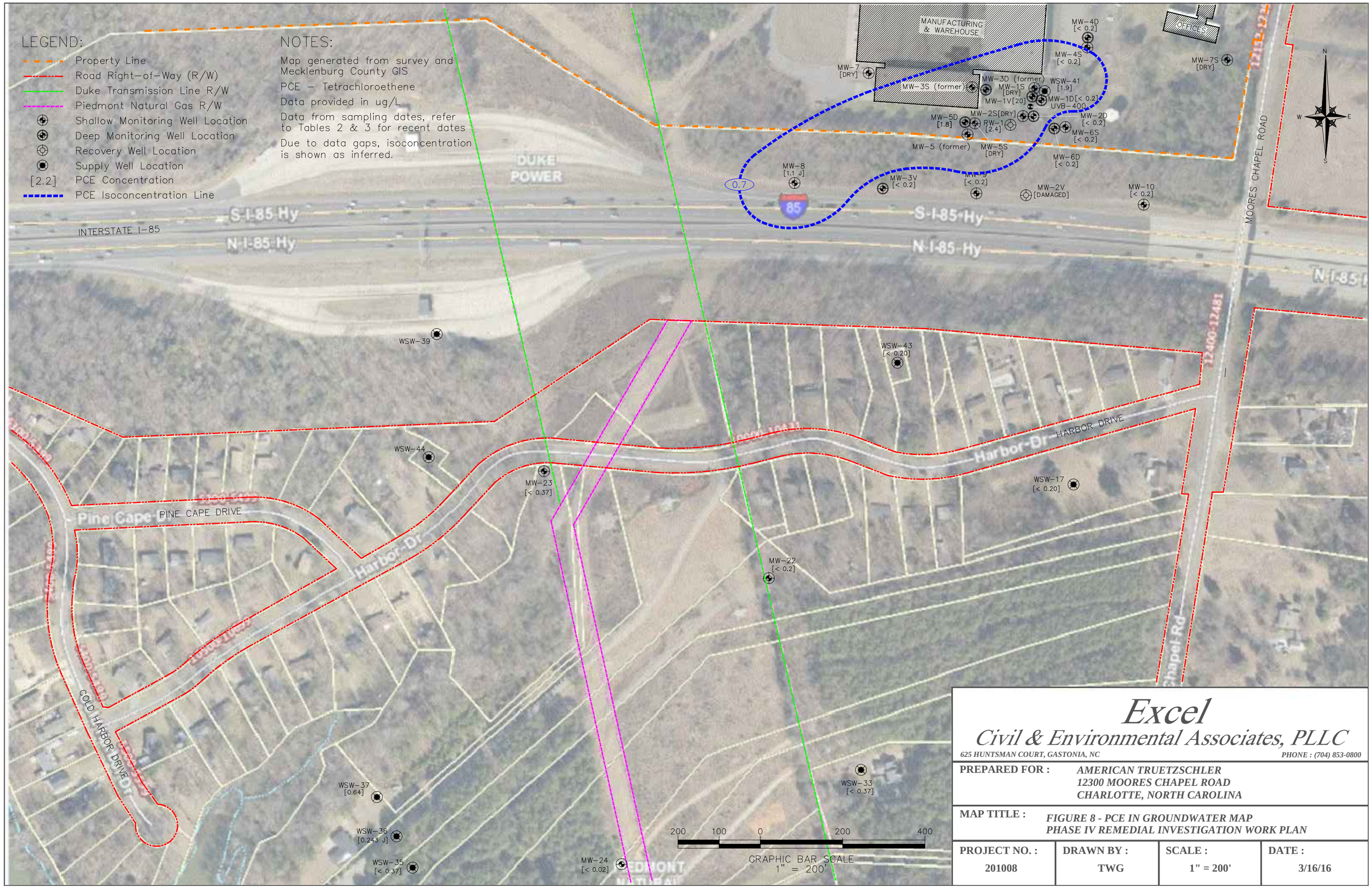
PREPARED FOR : AMERICAN TRUETZSCHLER
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : FIGURE 7 - DEEP WATER TABLE CONTOUR MAP - 12/13
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	NSS	1" = 100'	3/16/16



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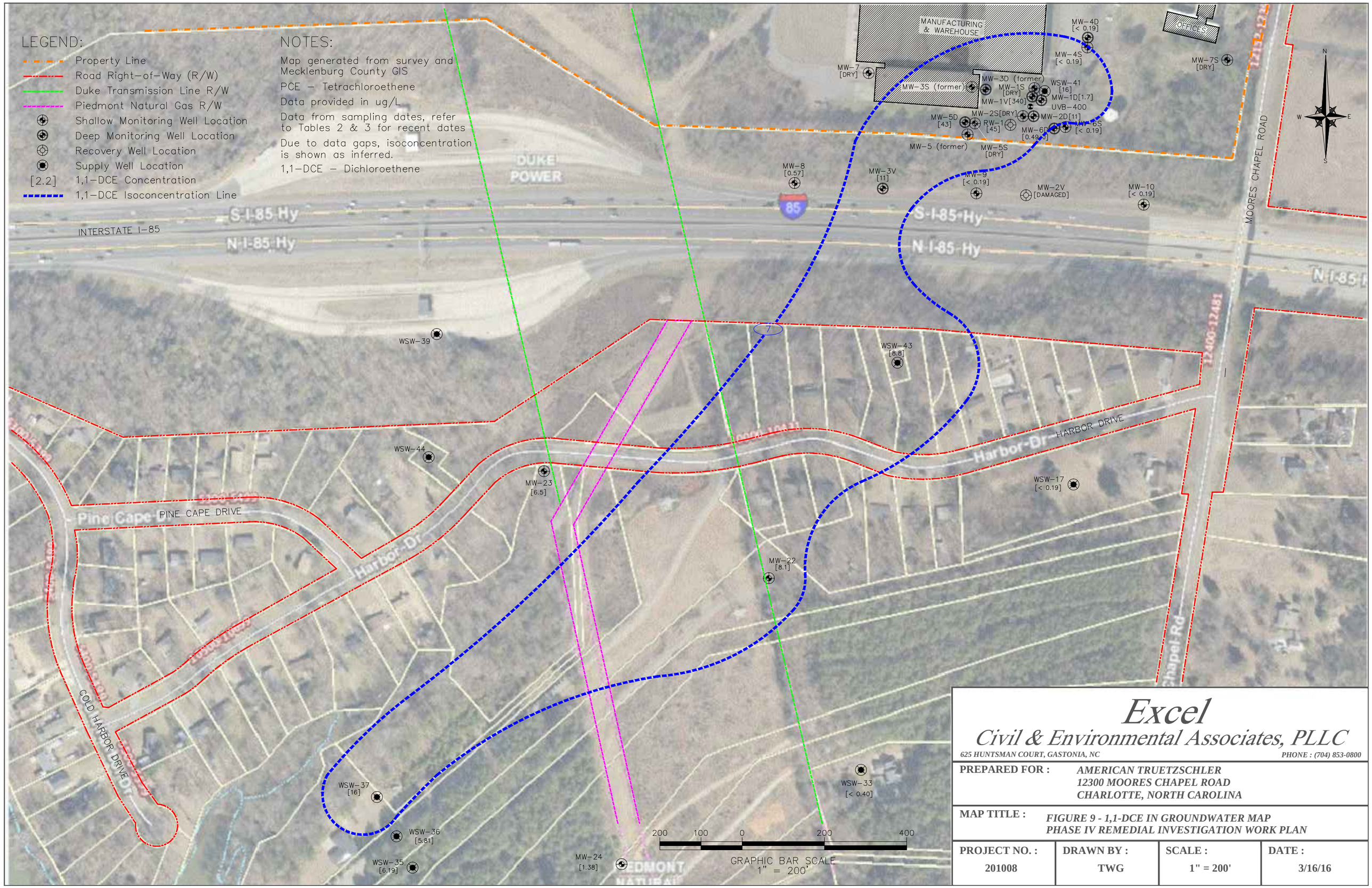
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 8 - PCE IN GROUNDWATER MAP*
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16



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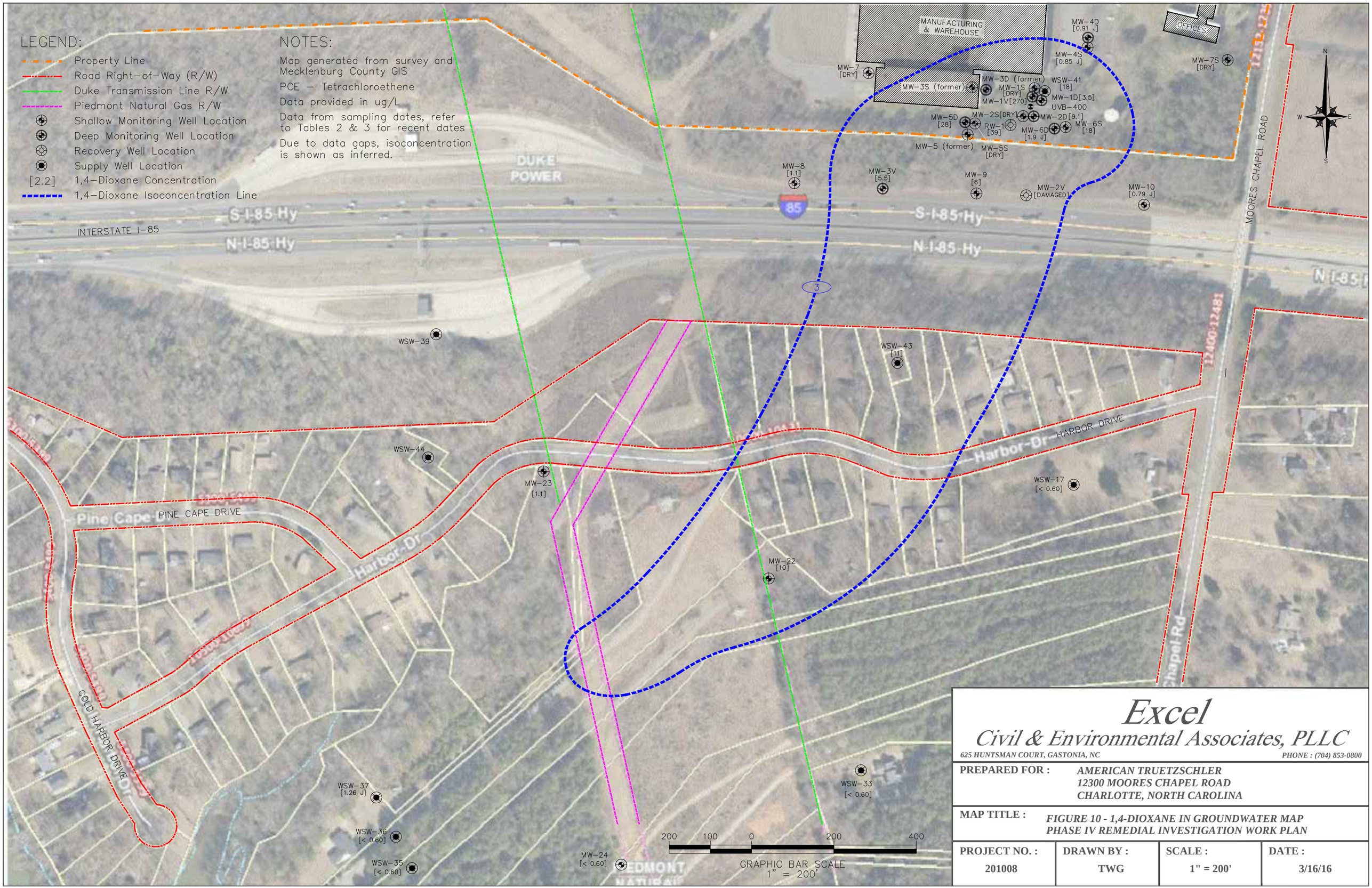
PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 9 - 1,1-DCE IN GROUNDWATER MAP*
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16



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PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 10 - 1,4-DIOXANE IN GROUNDWATER MAP*
PHASE IV REMEDIAL INVESTIGATION WORK PLAN

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16

Appendix A

Laboratory Reports & Chain of Custody Form(s)

ANALYTICAL REPORT

June 15, 2016

Excel Civil & Environmental Associates

Sample Delivery Group:	L840158
Samples Received:	06/08/2016
Project Number:	201008
Description:	American Truetzschler
Site:	CHARLOTTE, NC
Report To:	Mr. Mike Stanforth PO Box 6172 Gastonia, NC 28056-6000

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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WSW-36 L840158-01 GW

Collected by: Mike Stanforth | Collected date/time: 06/07/16 13:06 | Received date/time: 06/08/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG878919	1	06/11/16 08:39	06/11/16 08:39	BMB

WSW-37 L840158-02 GW

Collected by: Mike Stanforth | Collected date/time: 06/07/16 12:55 | Received date/time: 06/08/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG878919	1	06/11/16 09:00	06/11/16 09:00	BMB

WSW-41 L840158-03 GW

Collected by: Mike Stanforth | Collected date/time: 06/07/16 12:10 | Received date/time: 06/08/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG878919	1	06/11/16 09:20	06/11/16 09:20	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG879404	1	06/13/16 04:41	06/13/16 04:41	BMB

WSW-17 L840158-04 GW

Collected by: Mike Stanforth | Collected date/time: 06/07/16 12:23 | Received date/time: 06/08/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG878919	1	06/11/16 09:40	06/11/16 09:40	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG879404	1	06/13/16 05:00	06/13/16 05:00	BMB

WSW-32 L840158-05 GW

Collected by: Mike Stanforth | Collected date/time: 06/07/16 12:40 | Received date/time: 06/08/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG878919	1	06/11/16 10:01	06/11/16 10:01	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG879404	1	06/13/16 05:20	06/13/16 05:20	BMB

WSW-36 L840158-06 GW

Collected by: Mike Stanforth | Collected date/time: 06/07/16 13:06 | Received date/time: 06/08/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG878919	1	06/11/16 10:21	06/11/16 10:21	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG879404	1	06/13/16 05:39	06/13/16 05:39	BMB

WSW-37 L840158-07 GW

Collected by: Mike Stanforth | Collected date/time: 06/07/16 12:55 | Received date/time: 06/08/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG879404	1	06/13/16 05:59	06/13/16 05:59	BMB

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jimmy Hunt
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.72	J	1.05	25.0	1	06/11/2016 08:39	WG878919
Benzene	U		0.0896	0.500	1	06/11/2016 08:39	WG878919
Carbon tetrachloride	U		0.159	0.500	1	06/11/2016 08:39	WG878919
Chlorobenzene	U		0.140	0.500	1	06/11/2016 08:39	WG878919
Chloroethane	U		0.141	0.500	1	06/11/2016 08:39	WG878919
Chloroform	U		0.0860	0.500	1	06/11/2016 08:39	WG878919
Chloromethane	U		0.153	0.500	1	06/11/2016 08:39	WG878919
1,1-Dichloroethane	U		0.114	0.500	1	06/11/2016 08:39	WG878919
1,2-Dichloroethane	U		0.108	0.500	1	06/11/2016 08:39	WG878919
1,1-Dichloroethene	4.84		0.188	0.500	1	06/11/2016 08:39	WG878919
cis-1,2-Dichloroethene	U		0.0933	0.500	1	06/11/2016 08:39	WG878919
trans-1,2-Dichloroethene	U		0.152	0.500	1	06/11/2016 08:39	WG878919
1,2-Dichloropropane	U		0.190	0.500	1	06/11/2016 08:39	WG878919
Ethylbenzene	U		0.158	0.500	1	06/11/2016 08:39	WG878919
1,2-Dibromoethane	U		0.193	0.500	1	06/11/2016 08:39	WG878919
Methylene Chloride	U		1.07	2.50	1	06/11/2016 08:39	WG878919
Tetrachloroethene	0.230	J	0.199	0.500	1	06/11/2016 08:39	WG878919
1,1,1-Trichloroethane	U		0.0940	0.500	1	06/11/2016 08:39	WG878919
1,1,2-Trichloroethane	U		0.186	0.500	1	06/11/2016 08:39	WG878919
Trichloroethene	U		0.153	0.500	1	06/11/2016 08:39	WG878919
Trichlorofluoromethane	U		0.130	0.500	1	06/11/2016 08:39	WG878919
Toluene	U		0.102	0.500	1	06/11/2016 08:39	WG878919
Vinyl chloride	U		0.118	0.500	1	06/11/2016 08:39	WG878919
Xylenes, Total	U		0.316	1.50	1	06/11/2016 08:39	WG878919
(S) Toluene-d8	*106*			*90.0-115*		*06/11/2016 08:39*	WG878919
(S) Dibromofluoromethane	*96.0*			*79.0-121*		*06/11/2016 08:39*	WG878919
(S) 4-Bromofluorobenzene	*87.8*			*80.1-120*		*06/11/2016 08:39*	WG878919

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.33	J	1.05	25.0	1	06/11/2016 09:00	WG878919
Benzene	U		0.0896	0.500	1	06/11/2016 09:00	WG878919
Carbon tetrachloride	U		0.159	0.500	1	06/11/2016 09:00	WG878919
Chlorobenzene	U		0.140	0.500	1	06/11/2016 09:00	WG878919
Chloroethane	U		0.141	0.500	1	06/11/2016 09:00	WG878919
Chloroform	U		0.0860	0.500	1	06/11/2016 09:00	WG878919
Chloromethane	U		0.153	0.500	1	06/11/2016 09:00	WG878919
1,1-Dichloroethane	U		0.114	0.500	1	06/11/2016 09:00	WG878919
1,2-Dichloroethane	U		0.108	0.500	1	06/11/2016 09:00	WG878919
1,1-Dichloroethene	U		0.188	0.500	1	06/11/2016 09:00	WG878919
cis-1,2-Dichloroethene	U		0.0933	0.500	1	06/11/2016 09:00	WG878919
trans-1,2-Dichloroethene	U		0.152	0.500	1	06/11/2016 09:00	WG878919
1,2-Dichloropropane	U		0.190	0.500	1	06/11/2016 09:00	WG878919
Ethylbenzene	U		0.158	0.500	1	06/11/2016 09:00	WG878919
1,2-Dibromoethane	U		0.193	0.500	1	06/11/2016 09:00	WG878919
Methylene Chloride	U		1.07	2.50	1	06/11/2016 09:00	WG878919
Tetrachloroethene	U		0.199	0.500	1	06/11/2016 09:00	WG878919
1,1,1-Trichloroethane	U		0.0940	0.500	1	06/11/2016 09:00	WG878919
1,1,2-Trichloroethane	U		0.186	0.500	1	06/11/2016 09:00	WG878919
Trichloroethene	U		0.153	0.500	1	06/11/2016 09:00	WG878919
Trichlorofluoromethane	U		0.130	0.500	1	06/11/2016 09:00	WG878919
Toluene	U		0.102	0.500	1	06/11/2016 09:00	WG878919
Vinyl chloride	U		0.118	0.500	1	06/11/2016 09:00	WG878919
Xylenes, Total	U		0.316	1.50	1	06/11/2016 09:00	WG878919
(S) Toluene-d8	*105*			*90.0-115*		*06/11/2016 09:00*	WG878919
(S) Dibromofluoromethane	*97.9*			*79.0-121*		*06/11/2016 09:00*	WG878919
(S) 4-Bromofluorobenzene	*90.3*			*80.1-120*		*06/11/2016 09:00*	WG878919

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.48	J	1.05	25.0	1	06/11/2016 09:20	WG878919
Benzene	U		0.0896	0.500	1	06/11/2016 09:20	WG878919
Carbon tetrachloride	U		0.159	0.500	1	06/11/2016 09:20	WG878919
Chlorobenzene	U		0.140	0.500	1	06/11/2016 09:20	WG878919
Chloroethane	U		0.141	0.500	1	06/11/2016 09:20	WG878919
Chloroform	U		0.0860	0.500	1	06/11/2016 09:20	WG878919
Chloromethane	U		0.153	0.500	1	06/11/2016 09:20	WG878919
1,1-Dichloroethane	U		0.114	0.500	1	06/11/2016 09:20	WG878919
1,2-Dichloroethane	U		0.108	0.500	1	06/11/2016 09:20	WG878919
1,1-Dichloroethene	U		0.188	0.500	1	06/11/2016 09:20	WG878919
cis-1,2-Dichloroethene	U		0.0933	0.500	1	06/11/2016 09:20	WG878919
trans-1,2-Dichloroethene	U		0.152	0.500	1	06/11/2016 09:20	WG878919
1,2-Dichloropropane	U		0.190	0.500	1	06/11/2016 09:20	WG878919
Ethylbenzene	U		0.158	0.500	1	06/11/2016 09:20	WG878919
1,2-Dibromoethane	U		0.193	0.500	1	06/11/2016 09:20	WG878919
Methylene Chloride	U		1.07	2.50	1	06/11/2016 09:20	WG878919
Tetrachloroethene	U		0.199	0.500	1	06/11/2016 09:20	WG878919
1,1,1-Trichloroethane	U		0.0940	0.500	1	06/11/2016 09:20	WG878919
1,1,2-Trichloroethane	U		0.186	0.500	1	06/11/2016 09:20	WG878919
Trichloroethene	U		0.153	0.500	1	06/11/2016 09:20	WG878919
Trichlorofluoromethane	U		0.130	0.500	1	06/11/2016 09:20	WG878919
Toluene	U		0.102	0.500	1	06/11/2016 09:20	WG878919
Vinyl chloride	U		0.118	0.500	1	06/11/2016 09:20	WG878919
Xylenes, Total	U		0.316	1.50	1	06/11/2016 09:20	WG878919
(S) Toluene-d8	*104*			*90.0-115*		*06/11/2016 09:20*	WG878919
(S) Dibromofluoromethane	*94.8*			*79.0-121*		*06/11/2016 09:20*	WG878919
(S) 4-Bromofluorobenzene	*88.5*			*80.1-120*		*06/11/2016 09:20*	WG878919

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	06/13/2016 04:41	WG879404
(S) Toluene-d8	*96.4*			*70.0-130*		*06/13/2016 04:41*	WG879404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.51	J	1.05	25.0	1	06/11/2016 09:40	WG878919
Benzene	U		0.0896	0.500	1	06/11/2016 09:40	WG878919
Carbon tetrachloride	U		0.159	0.500	1	06/11/2016 09:40	WG878919
Chlorobenzene	U		0.140	0.500	1	06/11/2016 09:40	WG878919
Chloroethane	U		0.141	0.500	1	06/11/2016 09:40	WG878919
Chloroform	U		0.0860	0.500	1	06/11/2016 09:40	WG878919
Chloromethane	U		0.153	0.500	1	06/11/2016 09:40	WG878919
1,1-Dichloroethane	U		0.114	0.500	1	06/11/2016 09:40	WG878919
1,2-Dichloroethane	U		0.108	0.500	1	06/11/2016 09:40	WG878919
1,1-Dichloroethene	U		0.188	0.500	1	06/11/2016 09:40	WG878919
cis-1,2-Dichloroethene	U		0.0933	0.500	1	06/11/2016 09:40	WG878919
trans-1,2-Dichloroethene	U		0.152	0.500	1	06/11/2016 09:40	WG878919
1,2-Dichloropropane	U		0.190	0.500	1	06/11/2016 09:40	WG878919
Ethylbenzene	U		0.158	0.500	1	06/11/2016 09:40	WG878919
1,2-Dibromoethane	U		0.193	0.500	1	06/11/2016 09:40	WG878919
Methylene Chloride	U		1.07	2.50	1	06/11/2016 09:40	WG878919
Tetrachloroethene	U		0.199	0.500	1	06/11/2016 09:40	WG878919
1,1,1-Trichloroethane	U		0.0940	0.500	1	06/11/2016 09:40	WG878919
1,1,2-Trichloroethane	U		0.186	0.500	1	06/11/2016 09:40	WG878919
Trichloroethene	U		0.153	0.500	1	06/11/2016 09:40	WG878919
Trichlorofluoromethane	0.788		0.130	0.500	1	06/11/2016 09:40	WG878919
Toluene	U		0.102	0.500	1	06/11/2016 09:40	WG878919
Vinyl chloride	U		0.118	0.500	1	06/11/2016 09:40	WG878919
Xylenes, Total	U		0.316	1.50	1	06/11/2016 09:40	WG878919
(S) Toluene-d8	*104*			*90.0-115*		*06/11/2016 09:40*	WG878919
(S) Dibromofluoromethane	*96.5*			*79.0-121*		*06/11/2016 09:40*	WG878919
(S) 4-Bromofluorobenzene	*90.0*			*80.1-120*		*06/11/2016 09:40*	WG878919

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	06/13/2016 05:00	WG879404
(S) Toluene-d8	*96.2*			*70.0-130*		*06/13/2016 05:00*	WG879404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	06/11/2016 10:01	WG878919
Benzene	U		0.0896	0.500	1	06/11/2016 10:01	WG878919
Carbon tetrachloride	U		0.159	0.500	1	06/11/2016 10:01	WG878919
Chlorobenzene	U		0.140	0.500	1	06/11/2016 10:01	WG878919
Chloroethane	U		0.141	0.500	1	06/11/2016 10:01	WG878919
Chloroform	U		0.0860	0.500	1	06/11/2016 10:01	WG878919
Chloromethane	U		0.153	0.500	1	06/11/2016 10:01	WG878919
1,1-Dichloroethane	U		0.114	0.500	1	06/11/2016 10:01	WG878919
1,2-Dichloroethane	U		0.108	0.500	1	06/11/2016 10:01	WG878919
1,1-Dichloroethene	U		0.188	0.500	1	06/11/2016 10:01	WG878919
cis-1,2-Dichloroethene	U		0.0933	0.500	1	06/11/2016 10:01	WG878919
trans-1,2-Dichloroethene	U		0.152	0.500	1	06/11/2016 10:01	WG878919
1,2-Dichloropropane	U		0.190	0.500	1	06/11/2016 10:01	WG878919
Ethylbenzene	U		0.158	0.500	1	06/11/2016 10:01	WG878919
1,2-Dibromoethane	U		0.193	0.500	1	06/11/2016 10:01	WG878919
Methylene Chloride	U		1.07	2.50	1	06/11/2016 10:01	WG878919
Tetrachloroethene	U		0.199	0.500	1	06/11/2016 10:01	WG878919
1,1,1-Trichloroethane	U		0.0940	0.500	1	06/11/2016 10:01	WG878919
1,1,2-Trichloroethane	U		0.186	0.500	1	06/11/2016 10:01	WG878919
Trichloroethene	U		0.153	0.500	1	06/11/2016 10:01	WG878919
Trichlorofluoromethane	U		0.130	0.500	1	06/11/2016 10:01	WG878919
Toluene	U		0.102	0.500	1	06/11/2016 10:01	WG878919
Vinyl chloride	U		0.118	0.500	1	06/11/2016 10:01	WG878919
Xylenes, Total	U		0.316	1.50	1	06/11/2016 10:01	WG878919
(S) Toluene-d8	*105*			*90.0-115*		*06/11/2016 10:01*	WG878919
(S) Dibromofluoromethane	*98.7*			*79.0-121*		*06/11/2016 10:01*	WG878919
(S) 4-Bromofluorobenzene	*90.7*			*80.1-120*		*06/11/2016 10:01*	WG878919

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	06/13/2016 05:20	WG879404
(S) Toluene-d8	*96.6*			*70.0-130*		*06/13/2016 05:20*	WG879404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.65	J	1.05	25.0	1	06/11/2016 10:21	WG878919
Benzene	U		0.0896	0.500	1	06/11/2016 10:21	WG878919
Carbon tetrachloride	U		0.159	0.500	1	06/11/2016 10:21	WG878919
Chlorobenzene	U		0.140	0.500	1	06/11/2016 10:21	WG878919
Chloroethane	U		0.141	0.500	1	06/11/2016 10:21	WG878919
Chloroform	U		0.0860	0.500	1	06/11/2016 10:21	WG878919
Chloromethane	U		0.153	0.500	1	06/11/2016 10:21	WG878919
1,1-Dichloroethane	U		0.114	0.500	1	06/11/2016 10:21	WG878919
1,2-Dichloroethane	U		0.108	0.500	1	06/11/2016 10:21	WG878919
1,1-Dichloroethene	5.81		0.188	0.500	1	06/11/2016 10:21	WG878919
cis-1,2-Dichloroethene	U		0.0933	0.500	1	06/11/2016 10:21	WG878919
trans-1,2-Dichloroethene	U		0.152	0.500	1	06/11/2016 10:21	WG878919
1,2-Dichloropropane	U		0.190	0.500	1	06/11/2016 10:21	WG878919
Ethylbenzene	U		0.158	0.500	1	06/11/2016 10:21	WG878919
1,2-Dibromoethane	U		0.193	0.500	1	06/11/2016 10:21	WG878919
Methylene Chloride	U		1.07	2.50	1	06/11/2016 10:21	WG878919
Tetrachloroethene	0.243	J	0.199	0.500	1	06/11/2016 10:21	WG878919
1,1,1-Trichloroethane	U		0.0940	0.500	1	06/11/2016 10:21	WG878919
1,1,2-Trichloroethane	U		0.186	0.500	1	06/11/2016 10:21	WG878919
Trichloroethene	U		0.153	0.500	1	06/11/2016 10:21	WG878919
Trichlorofluoromethane	U		0.130	0.500	1	06/11/2016 10:21	WG878919
Toluene	U		0.102	0.500	1	06/11/2016 10:21	WG878919
Vinyl chloride	U		0.118	0.500	1	06/11/2016 10:21	WG878919
Xylenes, Total	U		0.316	1.50	1	06/11/2016 10:21	WG878919
(S) Toluene-d8	*105*			*90.0-115*		*06/11/2016 10:21*	WG878919
(S) Dibromofluoromethane	*98.4*			*79.0-121*		*06/11/2016 10:21*	WG878919
(S) 4-Bromofluorobenzene	*90.2*			*80.1-120*		*06/11/2016 10:21*	WG878919

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	06/13/2016 05:39	WG879404
(S) Toluene-d8	*103*			*70.0-130*		*06/13/2016 05:39*	WG879404

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	1.58	J	0.597	3.00	1	06/13/2016 05:59	WG879404
(S) Toluene-d8	*104*			*70.0-130*		*06/13/2016 05:59*	WG879404

Method Blank (MB)

(MB) R3143239-3 06/11/16 03:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Benzene	U		0.0896	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chloroethane	U		0.141	0.500
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	0.500
1,2-Dibromoethane	U		0.193	0.500
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
Ethylbenzene	U		0.158	0.500
Methylene Chloride	2.03	J	1.07	2.50
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.102	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	0.500
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*93.9*			*79.0-121*
(S) 4-Bromofluorobenzene	*91.8*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3143239-1 06/11/16 01:00 • (LCSD) R3143239-2 06/11/16 01:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	123	146	98.7	117	28.7-175			17.0	20.9
Benzene	25.0	24.4	25.2	97.7	101	73.0-122			2.98	20
Carbon tetrachloride	25.0	24.3	24.6	97.2	98.2	70.9-129			1.10	20
Chlorobenzene	25.0	25.9	25.8	104	103	79.7-122			0.640	20
Chloroethane	25.0	19.7	20.0	78.7	80.1	41.2-153			1.70	20
Chloroform	25.0	23.3	24.0	93.1	95.9	73.2-125			2.90	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3143239-1 06/11/16 01:00 • (LCSD) R3143239-2 06/11/16 01:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	25.0	27.6	28.1	110	112	55.8-134			1.99	20
1,2-Dibromoethane	25.0	24.8	26.2	99.3	105	79.8-122			5.49	20
1,1-Dichloroethane	25.0	24.9	25.2	99.7	101	71.7-127			1.08	20
1,2-Dichloroethane	25.0	22.5	23.8	90.2	95.1	65.3-126			5.35	20
1,1-Dichloroethene	25.0	19.4	20.2	77.7	80.7	59.9-137			3.79	20
cis-1,2-Dichloroethene	25.0	23.2	23.5	93.0	93.9	77.3-122			0.970	20
trans-1,2-Dichloroethene	25.0	22.2	22.7	89.0	90.6	72.6-125			1.83	20
1,2-Dichloropropane	25.0	27.3	27.8	109	111	77.4-125			1.86	20
Ethylbenzene	25.0	25.0	25.1	99.8	101	80.9-121			0.740	20
Methylene Chloride	25.0	25.7	26.0	103	104	69.5-120			1.42	20
Tetrachloroethene	25.0	28.3	27.9	113	112	73.5-130			1.48	20
Toluene	25.0	25.2	25.4	101	102	77.9-116			0.770	20
1,1,1-Trichloroethane	25.0	23.4	23.8	93.7	95.3	71.1-129			1.65	20
1,1,2-Trichloroethane	25.0	25.6	27.1	103	108	81.6-120			5.52	20
Trichloroethene	25.0	25.8	25.8	103	103	79.5-121			0.220	20
Trichlorofluoromethane	25.0	18.3	18.7	73.4	74.7	49.1-157			1.80	20
Vinyl chloride	25.0	25.1	25.3	100	101	61.5-134			0.800	20
Xylenes, Total	75.0	75.3	75.7	100	101	79.2-122			0.600	20
(S) Toluene-d8				*101*	*100*	*90.0-115*				
(S) Dibromofluoromethane				*92.8*	*92.8*	*79.0-121*				
(S) 4-Bromofluorobenzene				*96.1*	*95.9*	*80.1-120*				

L840070-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L840070-01 06/11/16 05:20 • (MS) R3143239-4 06/11/16 03:20 • (MSD) R3143239-5 06/11/16 03:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	125	1.32	70.0	60.9	54.9	47.7	1	25.0-156			13.8	21.5
Benzene	25.0	U	25.1	24.9	100	99.5	1	58.6-133			0.960	20
Carbon tetrachloride	25.0	U	24.7	24.1	98.8	96.2	1	60.6-139			2.63	20
Chlorobenzene	25.0	U	25.5	26.0	102	104	1	70.1-130			2.04	20
Chloroethane	25.0	U	20.2	19.0	80.8	76.0	1	33.3-155			6.21	20
Chloroform	25.0	U	24.4	23.7	97.8	94.8	1	66.1-133			3.09	20
Chloromethane	25.0	U	27.5	26.6	110	106	1	40.7-139			3.62	20
1,2-Dibromoethane	25.0	U	26.8	26.1	107	105	1	73.8-131			2.40	20
1,1-Dichloroethane	25.0	U	25.3	24.9	101	99.5	1	64.0-134			1.87	20
1,2-Dichloroethane	25.0	U	24.1	23.1	96.2	92.5	1	60.7-132			3.90	20
1,1-Dichloroethene	25.0	U	20.3	19.9	81.1	79.5	1	48.8-144			1.98	20
cis-1,2-Dichloroethene	25.0	U	24.0	23.5	95.9	93.9	1	60.6-136			2.07	20

L840070-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L840070-01 06/11/16 05:20 • (MS) R3143239-4 06/11/16 03:20 • (MSD) R3143239-5 06/11/16 03:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,2-Dichloroethene	25.0	U	22.7	22.5	90.7	90.0	1	61.0-132			0.750	20
1,2-Dichloropropane	25.0	U	27.5	27.7	110	111	1	69.7-130			0.480	20
Ethylbenzene	25.0	U	24.9	25.3	99.4	101	1	62.7-136			1.76	20
Methylene Chloride	25.0	U	24.8	24.1	99.3	96.4	1	61.5-125			2.93	20
Tetrachloroethene	25.0	U	27.8	28.3	111	113	1	57.4-141			1.73	20
Toluene	25.0	U	25.8	25.7	103	103	1	67.8-124			0.420	20
1,1,1-Trichloroethane	25.0	U	24.4	23.6	97.5	94.2	1	58.7-134			3.43	20
1,1,2-Trichloroethane	25.0	U	26.7	25.8	107	103	1	74.1-130			3.43	20
Trichloroethene	25.0	U	25.6	26.2	102	105	1	48.9-148			2.39	20
Trichlorofluoromethane	25.0	U	18.4	17.8	73.7	71.1	1	39.9-165			3.58	20
Vinyl chloride	25.0	U	24.7	24.7	98.7	98.6	1	44.3-143			0.120	20
Xylenes, Total	75.0	U	74.8	76.0	99.8	101	1	65.6-133			1.58	20
(S) Toluene-d8					*102*	*100*		*90.0-115*				
(S) Dibromofluoromethane					*94.3*	*91.7*		*79.0-121*				
(S) 4-Bromofluorobenzene					*93.7*	*94.9*		*80.1-120*				

Method Blank (MB)

(MB) R3143421-3 06/13/16 01:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	*103*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3143421-1 06/13/16 00:41 • (LCSD) R3143421-2 06/13/16 01:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	55.1	60.5	110	121	70.0-130			9.39	25
(S) Toluene-d8				*102*	*95.7*	*70.0-130*				

L840158-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L840158-03 06/13/16 04:41 • (MS) R3143421-4 06/13/16 03:43 • (MSD) R3143421-5 06/13/16 04:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	U	51.2	63.6	102	127	1	0.000-200			21.7	42
(S) Toluene-d8					*103*	*103*		*70.0-130*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

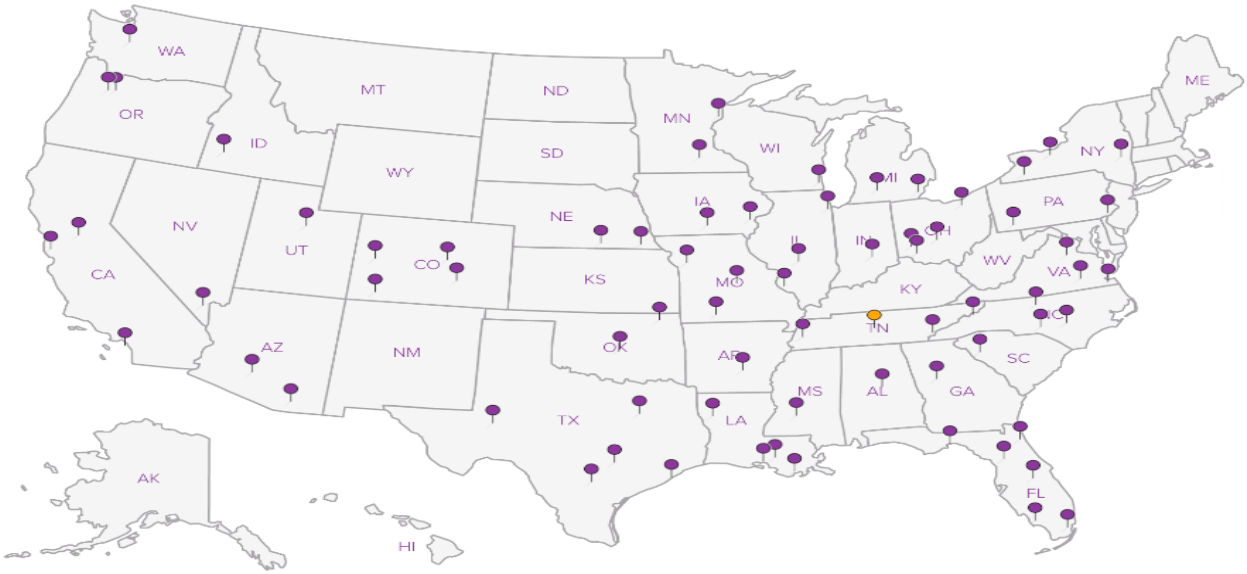
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Excel Civil & Environmental Associates

PO Box 6172
Gastonia, NC 28056-6000

Billing Information:
Accounts Payable
P.O. Box 6172
Gastonia, NC 28056-6000

Report to: Mr. Mike Stanforth

Email To: mstanforth@excelengr.com,dfarris@excelengr.com

Project Description: American Truetzschler

City/State Collected: CHARLOTTE NC

Phone: 704-853-0800
Fax: 704-853-3949

Client Project # 201008

Lab Project # EXCELENV-201008

Collected by (print): MIKE STANFORTH

Site/Facility ID # CHARLOTTE, NC

P.O. # 201008

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: NORMAL

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 840158
J172

Acctnum: EXCELENV
Template: T112794
Prelogin: P556503
TSR: 350 - Jimmy Hunt
PB: 6-1-16 MG
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LL 40mlAmb-HCl	V8260LL14D 40mlAmb-HCl									Rem./Contaminant	Sample # (lab only)
WSW-35		GW				4	X											
WSW-36		GW		6/7/16	1306	4	X											01
WSW-37		GW		6/7/16	1255	4	X											02
WSW-41		GW		6/7/16	1210	4	X	X										03
WSW-17		GW		6/7/16	1223	4	X	X										04
WSW-32		GW		6/7/16	1240	4	X	X										05
WSW-33		GW				4	X											
WSW-35		GW				2		X										
WSW-36		GW		6/7/16	1306	2	X	X										06
WSW-37		GW		6/7/16	1255	2		X										07

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

6777 0000 1595

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]	6/7/16	1450	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			[signature]

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 3.2 °C Bottles Received: 24 + TB

Date: 6-8-16 Time: 0900

Condition: (lab use only) [signature]

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

ANALYTICAL REPORT

July 06, 2016

Excel Civil & Environmental Associates

Sample Delivery Group:	L843224
Samples Received:	06/23/2016
Project Number:	201008
Description:	AT Well Sampling
Site:	CHARLOTTE, NC
Report To:	Mr. Mike Stanforth PO Box 6172 Gastonia, NC 28056-6000

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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33 L843224-01 GW

Collected by: Mike Stanforth
Collected date/time: 06/21/16 15:40
Received date/time: 06/23/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG884181	1	06/29/16 12:36	06/29/16 12:36	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG885985	1	07/05/16 15:01	07/05/16 15:01	ACG

35 L843224-02 GW

Collected by: Mike Stanforth
Collected date/time: 06/21/16 16:00
Received date/time: 06/23/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG884181	1	06/29/16 12:55	06/29/16 12:55	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG883940	1	06/27/16 23:46	06/27/16 23:46	BMB

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jimmy Hunt
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	06/29/2016 12:36	WG884181
Benzene	U		0.331	1.00	1	06/29/2016 12:36	WG884181
Carbon tetrachloride	U		0.379	1.00	1	06/29/2016 12:36	WG884181
Chlorobenzene	U		0.348	1.00	1	06/29/2016 12:36	WG884181
Chloroethane	U		0.453	5.00	1	06/29/2016 12:36	WG884181
Chloroform	U		0.324	5.00	1	06/29/2016 12:36	WG884181
Chloromethane	U		0.276	2.50	1	06/29/2016 12:36	WG884181
1,2-Dibromoethane	U		0.381	1.00	1	06/29/2016 12:36	WG884181
1,1-Dichloroethane	U		0.259	1.00	1	06/29/2016 12:36	WG884181
1,2-Dichloroethane	U		0.361	1.00	1	06/29/2016 12:36	WG884181
1,1-Dichloroethene	U		0.398	1.00	1	06/29/2016 12:36	WG884181
cis-1,2-Dichloroethene	U		0.260	1.00	1	06/29/2016 12:36	WG884181
trans-1,2-Dichloroethene	U		0.396	1.00	1	06/29/2016 12:36	WG884181
1,2-Dichloropropane	U		0.306	1.00	1	06/29/2016 12:36	WG884181
Ethylbenzene	U		0.384	1.00	1	06/29/2016 12:36	WG884181
Methylene Chloride	U		1.00	5.00	1	06/29/2016 12:36	WG884181
Tetrachloroethene	U		0.372	1.00	1	06/29/2016 12:36	WG884181
Toluene	U		0.780	5.00	1	06/29/2016 12:36	WG884181
1,1,1-Trichloroethane	U		0.319	1.00	1	06/29/2016 12:36	WG884181
1,1,2-Trichloroethane	U		0.383	1.00	1	06/29/2016 12:36	WG884181
Trichloroethene	U		0.398	1.00	1	06/29/2016 12:36	WG884181
Trichlorofluoromethane	U		1.20	5.00	1	06/29/2016 12:36	WG884181
Vinyl chloride	U		0.259	1.00	1	06/29/2016 12:36	WG884181
Xylenes, Total	U		1.06	3.00	1	06/29/2016 12:36	WG884181
(S) Toluene-d8	*103*			*90.0-115*		*06/29/2016 12:36*	WG884181
(S) Dibromofluoromethane	*114*			*79.0-121*		*06/29/2016 12:36*	WG884181
(S) 4-Bromofluorobenzene	*101*			*80.1-120*		*06/29/2016 12:36*	WG884181

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	07/05/2016 15:01	WG885985
(S) Toluene-d8	*101*			*70.0-130*		*07/05/2016 15:01*	WG885985

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	06/29/2016 12:55	WG884181
Benzene	U		0.331	1.00	1	06/29/2016 12:55	WG884181
Carbon tetrachloride	U		0.379	1.00	1	06/29/2016 12:55	WG884181
Chlorobenzene	U		0.348	1.00	1	06/29/2016 12:55	WG884181
Chloroethane	U		0.453	5.00	1	06/29/2016 12:55	WG884181
Chloroform	U		0.324	5.00	1	06/29/2016 12:55	WG884181
Chloromethane	U		0.276	2.50	1	06/29/2016 12:55	WG884181
1,2-Dibromoethane	U		0.381	1.00	1	06/29/2016 12:55	WG884181
1,1-Dichloroethane	U		0.259	1.00	1	06/29/2016 12:55	WG884181
1,2-Dichloroethane	U		0.361	1.00	1	06/29/2016 12:55	WG884181
1,1-Dichloroethene	6.19		0.398	1.00	1	06/29/2016 12:55	WG884181
cis-1,2-Dichloroethene	U		0.260	1.00	1	06/29/2016 12:55	WG884181
trans-1,2-Dichloroethene	U		0.396	1.00	1	06/29/2016 12:55	WG884181
1,2-Dichloropropane	U		0.306	1.00	1	06/29/2016 12:55	WG884181
Ethylbenzene	U		0.384	1.00	1	06/29/2016 12:55	WG884181
Methylene Chloride	U		1.00	5.00	1	06/29/2016 12:55	WG884181
Tetrachloroethene	U		0.372	1.00	1	06/29/2016 12:55	WG884181
Toluene	U		0.780	5.00	1	06/29/2016 12:55	WG884181
1,1,1-Trichloroethane	U		0.319	1.00	1	06/29/2016 12:55	WG884181
1,1,2-Trichloroethane	U		0.383	1.00	1	06/29/2016 12:55	WG884181
Trichloroethene	U		0.398	1.00	1	06/29/2016 12:55	WG884181
Trichlorofluoromethane	U		1.20	5.00	1	06/29/2016 12:55	WG884181
Vinyl chloride	U		0.259	1.00	1	06/29/2016 12:55	WG884181
Xylenes, Total	U		1.06	3.00	1	06/29/2016 12:55	WG884181
(S) Toluene-d8	*103*			*90.0-115*		*06/29/2016 12:55*	WG884181
(S) Dibromofluoromethane	*114*			*79.0-121*		*06/29/2016 12:55*	WG884181
(S) 4-Bromofluorobenzene	*102*			*80.1-120*		*06/29/2016 12:55*	WG884181

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	06/27/2016 23:46	WG883940
(S) Toluene-d8	*101*			*70.0-130*		*06/27/2016 23:46*	WG883940

Method Blank (MB)

(MB) R3146491-3 06/29/16 08:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
1,2-Dibromoethane	U		0.381	1.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
Ethylbenzene	U		0.384	1.00
Methylene Chloride	U		1.00	5.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.780	5.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*114*			*79.0-121*
(S) 4-Bromofluorobenzene	*102*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3146491-1 06/29/16 07:24 • (LCSD) R3146491-2 06/29/16 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	109	127	86.9	101	28.7-175			15.4	20.9
Benzene	25.0	24.9	25.2	99.7	101	73.0-122			1.20	20
Carbon tetrachloride	25.0	28.2	28.5	113	114	70.9-129			1.07	20
Chlorobenzene	25.0	25.3	25.3	101	101	79.7-122			0.240	20
Chloroethane	25.0	30.8	30.1	123	120	41.2-153			2.39	20
Chloroform	25.0	25.6	25.8	102	103	73.2-125			0.920	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3146491-1 06/29/16 07:24 • (LCSD) R3146491-2 06/29/16 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	25.0	28.1	27.9	113	111	55.8-134			0.960	20
1,2-Dibromoethane	25.0	24.6	24.7	98.5	98.8	79.8-122			0.240	20
1,1-Dichloroethane	25.0	26.6	26.8	106	107	71.7-127			0.920	20
1,2-Dichloroethane	25.0	26.5	27.0	106	108	65.3-126			1.72	20
1,1-Dichloroethene	25.0	25.4	25.7	102	103	59.9-137			1.06	20
cis-1,2-Dichloroethene	25.0	25.1	25.6	100	102	77.3-122			1.88	20
trans-1,2-Dichloroethene	25.0	26.1	26.4	104	105	72.6-125			1.13	20
1,2-Dichloropropane	25.0	24.4	25.4	97.7	102	77.4-125			4.00	20
Ethylbenzene	25.0	25.4	25.4	101	101	80.9-121			0.0600	20
Methylene Chloride	25.0	24.4	24.7	97.8	98.8	69.5-120			1.06	20
Tetrachloroethene	25.0	24.0	24.4	96.0	97.5	73.5-130			1.51	20
Toluene	25.0	24.3	25.0	97.4	99.8	77.9-116			2.48	20
1,1,1-Trichloroethane	25.0	26.7	27.1	107	108	71.1-129			1.53	20
1,1,2-Trichloroethane	25.0	23.8	23.5	95.2	93.9	81.6-120			1.32	20
Trichloroethene	25.0	24.7	25.4	98.7	102	79.5-121			2.96	20
Trichlorofluoromethane	25.0	30.0	30.0	120	120	49.1-157			0.0600	20
Vinyl chloride	25.0	28.2	28.2	113	113	61.5-134			0.0800	20
Xylenes, Total	75.0	74.1	74.2	98.7	98.9	79.2-122			0.160	20
(S) Toluene-d8				*105*	*106*	*90.0-115*				
(S) Dibromofluoromethane				*111*	*112*	*79.0-121*				
(S) 4-Bromofluorobenzene				*108*	*104*	*80.1-120*				

L843153-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L843153-11 06/29/16 10:59 • (MS) R3146491-4 06/29/16 11:38 • (MSD) R3146491-5 06/29/16 11:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	125	ND	66.8	67.8	53.4	54.2	1	25.0-156			1.46	21.5
Benzene	25.0	ND	25.5	25.6	99.5	99.8	1	58.6-133			0.260	20
Carbon tetrachloride	25.0	ND	27.8	28.4	111	114	1	60.6-139			2.01	20
Chlorobenzene	25.0	ND	25.1	24.2	100	96.7	1	70.1-130			3.73	20
Chloroethane	25.0	ND	29.5	30.0	118	120	1	33.3-155			1.67	20
Chloroform	25.0	ND	25.9	25.9	104	104	1	66.1-133			0.190	20
Chloromethane	25.0	ND	27.2	27.4	109	110	1	40.7-139			0.860	20
1,2-Dibromoethane	25.0	ND	25.0	24.1	100	96.3	1	73.8-131			3.97	20
1,1-Dichloroethane	25.0	ND	26.5	27.1	106	108	1	64.0-134			2.12	20
1,2-Dichloroethane	25.0	ND	26.9	27.0	107	108	1	60.7-132			0.510	20
1,1-Dichloroethene	25.0	ND	24.8	25.2	99.1	101	1	48.8-144			1.65	20
cis-1,2-Dichloroethene	25.0	ND	24.9	25.0	99.7	100	1	60.6-136			0.490	20

L843153-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L843153-11 06/29/16 10:59 • (MS) R3146491-4 06/29/16 11:38 • (MSD) R3146491-5 06/29/16 11:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,2-Dichloroethene	25.0	ND	25.5	25.6	102	102	1	61.0-132			0.300	20
1,2-Dichloropropane	25.0	ND	25.1	25.2	100	101	1	69.7-130			0.310	20
Ethylbenzene	25.0	ND	25.0	23.9	99.9	95.7	1	62.7-136			4.33	20
Methylene Chloride	25.0	ND	24.5	24.6	98.1	98.3	1	61.5-125			0.220	20
Tetrachloroethene	25.0	ND	23.4	22.8	93.7	91.4	1	57.4-141			2.51	20
Toluene	25.0	ND	24.3	24.3	97.4	97.3	1	67.8-124			0.0700	20
1,1,1-Trichloroethane	25.0	ND	27.4	27.1	109	108	1	58.7-134			0.930	20
1,1,2-Trichloroethane	25.0	ND	24.3	23.8	97.4	95.1	1	74.1-130			2.35	20
Trichloroethene	25.0	ND	24.4	24.3	97.4	97.1	1	48.9-148			0.380	20
Trichlorofluoromethane	25.0	ND	28.2	28.1	113	112	1	39.9-165			0.140	20
Vinyl chloride	25.0	ND	27.1	27.8	108	111	1	44.3-143			2.59	20
Xylenes, Total	75.0	ND	72.4	70.5	96.6	94.0	1	65.6-133			2.71	20
(S) Toluene-d8					*106*	*107*		*90.0-115*				
(S) Dibromofluoromethane					*112*	*113*		*79.0-121*				
(S) 4-Bromofluorobenzene					*107*	*104*		*80.1-120*				

Method Blank (MB)

(MB) R3146375-3 06/27/16 20:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	*101*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3146375-1 06/27/16 19:38 • (LCSD) R3146375-2 06/27/16 19:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	63.0	55.3	126	111	70.0-130			13.1	25
(S) Toluene-d8				*100*	*108*	*70.0-130*				

L843152-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L843152-01 06/27/16 22:30 • (MS) R3146375-4 06/28/16 00:06 • (MSD) R3146375-5 06/28/16 00:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	ND	84.1	70.2	168	140	1	0.000-200			18.0	42
(S) Toluene-d8					*101*	*101*		*70.0-130*				

Method Blank (MB)

(MB) R3147558-2 07/05/16 11:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	*108*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3147558-1 07/05/16 10:27 • (LCSD) R3147558-3 07/05/16 12:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	57.3	55.7	115	111	70.0-130			2.89	25
(S) Toluene-d8				*107*	*102*	*70.0-130*				

L843224-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L843224-01 07/05/16 15:01 • (MS) R3147558-4 07/05/16 14:03 • (MSD) R3147558-5 07/05/16 14:23

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	U	65.6	66.3	131	133	1	0.000-200			1.05	42
(S) Toluene-d8					*102*	*108*		*70.0-130*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

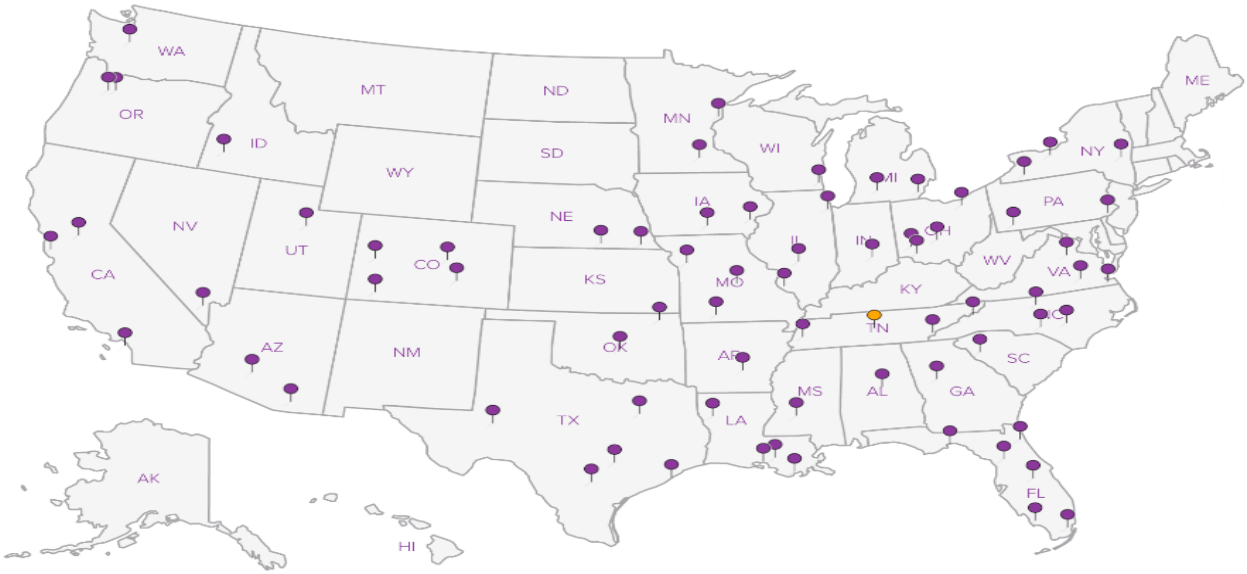
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ECEA
PO Box 6172
Gastonia, NC 28056

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Email to: mstanforth@excelengr.com

Chain of Custody
Page 1 of 1

ESC
L·A·B S·C·I·E·N·C·E·S
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

J123

Project Description: AT Well Sampling
City/Sate Collected: Charlotte, NC
Phone: 704-853-0800
FAX: 704-853-3949
Client Project #: 201008
ESC Key: excelenv - 201008
Collected by: Mike Stanforth
Site/Facility ID#:
P.O.#: 201008
Collected by (signature):
Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%
____ Three Day.....25%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

CoCode (lab use only)
Template/Prelogin
Shipped Via:

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	V8260 RDL/MDL	V8260LL 1,4 D RDL/MDL							Remarks/Contaminant	Sample # (lab only)
33	Grab	DW		6/21/16	1540	6	x	x								L843224-01/02
35	Grab	DW		6/21/16	1600	6	x	x								-03/-04

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	6/22/16	1630			Good
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 / Bottles Received: 12 = VP + TB	CoC Seals Intact: ____Y ____N ____NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6-23-16 / Time: 900	pH Checked: / NCF:

6711 0131 4551