

**SECOND 2019 SEMI-ANNUAL
GROUNDWATER & SURFACE WATER
MONITORING REPORT &
CORRECTIVE MEASURES STATUS
EVALUATION**

Prepared For:



Forsyth County – Hightower Road Landfill
Permit Nos. 058-006D(L), 058-009(SL), and 058-010D(SL)
Ball Ground, Georgia

Prepared By:



**ATLANTIC COAST
CONSULTING, INC.**

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Permitted Name: Forsyth Co - Hightower Rd
Ph 1 (SL), Ph 3 (SL), Ph 4 MSWL
Permit Nos. 058-006D(L), 058-009(SL), and 058-010D(SL)
Ball Ground, Georgia

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Assessment Monitoring Event
Dates of Sampling: December 9-13, 2019

Prepared By:



**ATLANTIC COAST
CONSULTING, INC.**

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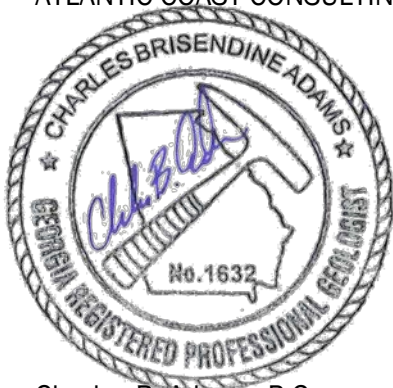
Introduction

On behalf of Forsyth County, Georgia, Atlantic Coast Consulting, Inc. (ACC) is providing this semi-annual Groundwater and Surface Water Monitoring Report for the Hightower Road Municipal Solid Waste Landfill (MSWL). The purpose of this report is to provide a summary and evaluation of the results of the recent groundwater and surface water monitoring event, which is required by the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.14. This report includes a professional geologist certification and compliance statement, a summary of site conditions, a description of sampling and analysis, a potentiometric map based on groundwater level measurements recorded for this event, determination of groundwater flow rate and direction, a summary of analytical results, and a statistical analysis of the analytical data.

Professional Geologist Certification and Compliance Statement

This report has been prepared by a registered professional geologist in general accordance with Georgia Chapter 391-3-4 Solid Waste Regulations. The seal below certifies that a sufficiently trained and experienced qualified groundwater scientist with a baccalaureate degree in natural sciences has prepared and/or reviewed this report. The undersigned is qualified to make sound, professional judgments regarding groundwater monitoring and contaminant fate and transport. The information contained in this report is to the best of the undersigned's knowledge and belief, true, accurate, and complete.

ATLANTIC COAST CONSULTING, INC.



Charles B. Adams, P.G.

This certification statement is provided in accordance with the Solid Waste Management Rules of Georgia Chapter 391-3-4-.07(3)(v). This semi-annual Groundwater and Surface Water Monitoring Report is provided to document the results of the December 2019 sampling event at the Hightower Road MSWL. As documented in this report, there were constituent concentrations above established compliance standards. Therefore, as a qualified groundwater scientist, I certify that these constituents are not in compliance with established standards as documented herein. The facility is in compliance with appropriate Rules of Georgia Solid Waste Management, because an Assessment of Corrective Measures (ACM) Study and Corrective Action Plan (CAP) have been completed and are being implemented, and notifications per rule 391-3-4-.17(6) were published as required.

Summary of Site

The Forsyth County Hightower Road Landfill is a closed MSWL consisting of four phases (Phases I through IV) located in northwest Forsyth County, Georgia. Phases I and II operated under EPD Solid Waste Handling Permit No. 058-006D(L) from 1986 until 1994, Phase III under EPD Solid Waste Handling Permit No. 058-009D(SL) from 1991 until 1995, and Phase IV under EPD Solid Waste Handling Permit No. 058-010D(SL) from 1993 until 1997. Closure activities for the entire facility were completed in 1999.

An ACM report completed in 2004 concluded that the source of volatile organic compounds (VOCs) in groundwater at the facility was primarily due to landfill gas (LFG), and various means of reducing LFG impacts to groundwater were evaluated. The ACM proposed a combination of monitored natural attenuation (MNA) and LFG migration control to remediate the site. Forsyth County subsequently held a public meeting to review the ACM results and solicit comments from the public regarding the selection of corrective measures. After completion of the public comment phase, corrective measures that were demonstrated to meet the requirements of Rule 391-3-4.14(39) in the ACM were selected for long-term implementation at the facility. The measures consist of LFG migration control and MNA. The ACM was approved by EPD in 2005.

ACC submitted the *Interim CAP* to EPD for review in January 2007. The interim CAP proposed the implementation of MNA from the ACM, as well as the installation of several LFG interceptor vent trenches and the retrofitting of a passive vacuum source (individual turbines) to the existing in-waste gas vents. Three LFG interceptor trenches were completed in late 2007 and have reduced methane gas concentrations in methane monitoring wells. A Final CAP was submitted to EPD in July 2008 and presented a milestone schedule for implementing further corrective actions. The EPD conditionally approved the *Request for Minor Modification to Solid Waste Handling Permit* that added the CAP to the permit (pending submittal of remedial cost information), and annual MNA groundwater sampling was initiated during the second 2007 event. In response to the conditional approval of the CAP, a table summarizing actual and estimated remedial costs for the corrective action program and a revised CAP implementation schedule were submitted to EPD March 12, 2009. In accordance with this updated CAP schedule, Corrective Measures Status Evaluation Reports are completed every three years and include evaluations of the selected long-term remedies.

Forsyth County submitted a *Request for Minor Modification to Solid Waste Handling Permit* for a gas extraction system in September 2009. That design included replacing six passive vents with vertical gas extraction wells equipped with solar-powered flare/blower units (the vents included two vents in Phase I and four vents in Phase II). This design was approved by EPD on April 15, 2010. Forsyth County has implemented this design, and the installation certification report was submitted to EPD on October 14, 2011.

Off-site well W-3 was abandoned in May 2014 and off-site well W-2 was abandoned in September 2014. The sampling requirements for off-site wells W-2 and W-3 were removed from the permit via a *Request for Minor Modification to Solid Waste Handling Permit*, which was approved by EPD June 16, 2015.

Forsyth County submitted a March 2017 *Request for Minor Modification to Solid Waste Handling Permit* to remove all off-site sampling requirements from the permit for two off-site water wells (W-1 and W-4) and two “springs” (S-1 and S-2), based on a 13-year history of sampling analysis, with no confirmed VOC detections in well samples or spring samples, and

only sporadic detections of naturally occurring metals barium, copper, and/or zinc in off-site well samples. The March 2017 *Request for Minor Modification* also included an adjustment to the frequency for full Appendix II analyte monitoring to correspond with triennial corrective measures evaluation reports. EPD approved the modification on April 20, 2017.

Forsyth County provided adjacent property owner and public notification of sample results above groundwater protection standards (GWPS) in two wells along the northern property boundary in accordance with Rule 391-3-4-.17(6) and EPD correspondence dated April 25, 2017. A copy of the publisher's affidavit for the newspaper notice and adjacent property owner notifications were provided to EPD July 7, 2017, October 2, 2017, and April 24, 2018. Future public notifications will also be submitted to EPD, when required.

Geologic Setting

The site is divided into two different lithologies by the Allatoona Fault, which runs through the northwest section of the site. All four phases of the landfill are located to the southeast of this fault and are underlain by the Canton formation. The Canton formation is often considered to be the inner-most belt of the Piedmont physiographic province; belts to the northwest of this formation are designated as part of the Blue Ridge physiographic province. The Canton formation is composed of carbonaceous/graphitic, garnetiferous mica schist inter-layered with amphibolite. The Chattahoochee fault runs sub-parallel to and southeast of the Allatoona Fault; the area between these two faults (that includes much of this site) is commonly referred to as the "Dahlonega Gold Belt".

Monitoring Program

There are 13 groundwater monitoring network wells and 3 AMW series wells utilized to monitor groundwater conditions near Phase I of the facility, and 34 monitoring network wells and 10 AMW series wells to monitor Phases II – IV. Throughout the site, well clusters have been installed to monitor vertical gradients and/or stratification of potential impacts. The shallowest wells have no suffix (e.g. GWC-8), the intermediate wells have an "A" suffix (e.g. GWC-8A), and the deepest wells (installed in rock) have an "R" suffix (e.g. GWC-8R). Surface water is monitored for permit-required parameters (Georgia Table 1 Surface Water Parameters) at 11 locations around the facility. Two surface water locations (SWC-4 and SWC-6) are voluntarily sampled for Appendix I VOCs.

During the first semi-annual sampling event, assessment monitoring wells are sampled for Appendix II VOCs and Appendix I metals, and detection wells are sampled for Appendix I parameters as listed in Table A. During the second semi-annual monitoring event, assessment wells are sampled for Appendix I parameters plus any verified Appendix II analytes, select wells are sampled for CAP-required MNA parameters, and detection wells are sampled for Appendix I parameters. Once every three years, assessment monitoring wells are sampled for the full Appendix II analyte list; monitoring locations were sampled for Appendix II analytes during the June 2019 event. The next triennial event is scheduled for June 2022. Some AMW series wells are sampled/analyzed for Appendix I VOCs as warranted by the data (i.e., to provide delineation) and are sampled for the required parameters listed in Table A. Additionally, Appendix I VOCs are collected from SWC-4 and SWC-6 for delineation purposes. Any Appendix II constituents that become verified in an assessment well are added to the analyte list for the well it was detected in for the second semi-annual monitoring event. Historically, the addition of Appendix II analysis to assessment wells has not yielded additional consistently-detected analytes.

As described in the July 26, 2013 *Response to EPD Comments*, the landfill has redundant monitoring in the saprolite/bedrock aquifer, and these two zones have been demonstrated to be interconnected in the 1992 Site Assessment Report; therefore, if these wells are dry, the well complements are sampled, as shown on the following table:

ID	Complement
GWA-1	GWA-1A
GWC-3	GWC-3A
GWC-4	GWC-4A
GWC-8	GWC-8A
GWC-14	GWC-14A
GWC-15	AMW-1
GWC-16A	AMW-2
GWC-18	AMW-5

The CAP requires sampling of MNA parameters from assessment wells on an annual basis; MNA sampling began with the second 2007 monitoring event. These MNA parameters include dissolved oxygen, nitrate, sulfate, ferrous iron, chloride, oxidation-reduction potential (ORP), carbon dioxide, total dissolved solids (TDS), and alkalinity. Table A presents a summary of the current analyte lists for all monitoring locations. The CAP-prescribed schedule for review of MNA data is a triennial basis. The first MNA/CAP review was completed during the second 2010 event, and subsequent reviews were completed during the second 2013 and second 2016 events. The reviews were submitted to EPD as attachments to the respective groundwater monitoring reports. The current review is attached to this report.

In accordance with the groundwater monitoring plan, all detected analyte concentrations are compared to a GWPS. The GWPS is the United States Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL), or in cases where no MCL exists, an alternate GWPS is utilized. The ACM established alternative GWPS for analytes that have no established MCL per rule 391-3-4-.14(32).

Eleven surface water sampling points (SWA-1, SWA-2, and SWC-1 through SWC-9) are monitored semi-annually at the landfill. When water is present, surface water samples are analyzed for chemical oxygen demand (COD), total cyanide, total organic carbon, chloride, and metals.

Purging and Sampling Procedures

All samples were collected in accordance with the EPD-approved groundwater monitoring plan for Forsyth County – Hightower Road Landfill. Groundwater samples were collected following the procedures summarized below:

- All sampling equipment was decontaminated prior to use at each sampling location.
- New gloves were donned prior to sampling and changed appropriately to avoid cross contaminating samples or sampling equipment.

- Depth-to-groundwater was measured with an electronic water level indicator and recorded prior to sample collection and used to calculate purge volume prior to sample collection.
- A minimum of three well volumes were removed or the well was purged dry. Disposable Teflon® bailers were used to purge all wells, except for PH1-GWA-1A, PH1-GWA-3A, and PH1-GWC-2, where a Grundfos stainless steel submersible pump attached to disposable Teflon lined tubing was used.
- Parameters including pH, temperature, turbidity, and specific electrical conductivity were measured and recorded during purging and at the time of sampling. Field-collected parameters are summarized in Table 1.
- A brief groundwater recovery period was allowed for each well.
- Representative VOC samples were collected following purging. Samples for metals analysis were collected immediately if turbidity was less than 10 nephelometric turbidity units (NTU), or if turbidity was above 10 NTU on the following day (within 24 hours of purging) after allowing the water column to settle to obtain less turbid samples. Immediately after sample collection, all containers were labeled, placed on ice in laboratory-provided coolers, and delivered to the laboratory for analysis under chain-of-custody documentation.
- A trip blank was collected during the event and analyzed for Appendix I VOCs.
- Two field blanks were collected during the event and analyzed for Appendix I constituents.

Surface water samples were collected utilizing grab sampling techniques following the procedures summarized below:

- New gloves were donned prior to sampling and changed appropriately to avoid cross contaminating samples.
- Parameters including pH, temperature, turbidity, specific electrical conductivity, and dissolved oxygen were measured and recorded at the time of sampling.
- Immediately after sample collection, all containers were labeled, placed on ice in laboratory-provided coolers, and delivered to the laboratory for analysis under chain-of-custody documentation.

Groundwater monitoring well information, including depth-to-water measurements and groundwater elevation calculations are included in Table 2. Laboratory analytical data are summarized in Tables 3 and 4.

Laboratory Methods

Laboratory analyses were performed in accordance with approved U.S. EPA methodology as set forth in *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, Third Edition, December 1996, SW-846, and subsequent revisions. During this event and prior sampling events, independent samples from each approved groundwater monitoring location were collected and analyzed for the applicable Appendix I (and/or Appendix II where applicable) constituents as listed in 40 Code of Federal Regulations (CFR) Part 258, Subpart E, 56 Fed. Reg. 51028-51029 (October 9, 1991), and *Rules for Solid Waste Management* [Chapter 391-

3-4.14(22)], as amended. The laboratory analytical results, quality control data, and chain-of-custody records for this semi-annual groundwater monitoring event are included in Attachment A of this report. Results of these analyses are discussed in the following sections.

Laboratory Certification

Analytical Environmental Services, Inc. (AES) is an approved laboratory (in accordance with 391-3-26-.05) for the analysis of solid/hazardous waste and is accredited by National Environmental Laboratory Accreditation Program (NELAP). Accreditation issuing authorities, certification identifications, and expiration dates are provided in the laboratory analytical reports.

Discussion of Sampling Results

Groundwater

Samples from the second 2019 semi-annual monitoring event were collected on December 9-13, 2019. The samples were analyzed by AES of Atlanta, Georgia. Samples were collected and analyzed from network detection and assessment monitoring wells for Appendix I/II parameters during this monitoring event as detailed in Table A. Due to laboratory error during the first 2019 event, the samples from PH1-GWA-2 and PH1-GWC-2 were also evaluated for cyanide during this second 2019 event; the cyanide results were non-detect for both samples. Monitoring wells PH1-GWC-4, GWC-4, GWC-15, GWC-16A, AMW-9, and AMW-13 were dry or purged dry and did not recharge and were not sampled. Groundwater monitoring wells GWC-4A, AMW-1, and AMW-2 were sampled as surrogate wells for GWC-4, GWC-15, and GWC-16A, respectively.

An evaluation of the December 2019 semi-annual groundwater sampling results indicates that one or more VOCs were detected in 14 network groundwater well samples and 6 AMW series well samples as summarized on Table 3. The concentrations of 4 VOCs in one or more assessment well samples were above the respective GWPS: cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. A summary of organic detections is presented below:

- All verified, detected VOCs were in samples from assessment monitoring wells or AMW series wells. There was an unverified detection of cis-1,2-DCE in the samples from GWC-8 that will be evaluated next event.
- The concentration of chloroethane at 3.6 micrograms per liter ($\mu\text{g/L}$) in the sample from GWC-14A was below the GWPS (4.6 $\mu\text{g/L}$). The concentrations in this well are trending down from the initial concentration of 100 $\mu\text{g/L}$ in November 2001.
- The concentration of cis-1,2-DCE in the sample from PH1-GWA-2 was above the GWPS (70 $\mu\text{g/L}$).
- The concentrations of PCE in samples from PH1-GWC-2, PH1-GWC-3, PH1-GWC-3A, GWC-18, AMW-1, AMW-4, and AMW-12R were above the GWPS (5 $\mu\text{g/L}$). The detection in the sample from PH1-GWA-2 is an unverified concentration and will be evaluated further during the next sampling event. The unverified detection of PCE in the sample from AMW-12 in the first 2019 event was confirmed during this event.

- The concentrations of TCE in samples from PH1-GWA-2, PH1-GWC-3, PH1-GWC-3A, and AMW-1 were above the GWPS (5 µg/L).
- The concentration of vinyl chloride in the sample from GWC-14A was above the GWPS (2 µg/L).
- The detections of VOCs in groundwater during this event are addressed by CAP corrective actions. Further review of VOCs above GWPS is provided in the Corrective Measures Status Evaluation Report (Attachment B).

The unverified, detected concentrations of the semi-volatile organic compounds (SVOCs) aldrin, bis(2-ethylhexyl) phthalate (BEHP), and BHC-beta in the samples from assessment monitoring wells GWC-14A, GWC-8A, and PH1-GWA-1, respectively during the first 2019 event did not recur during this second 2019 event. The low-level, unverified detections of the Appendix II analyte sulfide in the samples from PH1-GWA-2, PH1-GWC-2, PH1-GWC-3, GWC-8A, GWC-18, and GWC-24 during the first 2019 event did not recur during this second 2019 event.

A summary of detected metals is presented in Table 4. Appendix I metals barium, cobalt, copper, nickel, and zinc were detected in one or more groundwater well samples. The previously unverified detected concentrations of chromium (PH1-GWA-1A, PH1-GWC-2, and GWC-4A) from the first 2019 event were not present in the December 2019 event, and remain unverified. All detected groundwater metal concentrations were less than their respective GWPS. Low levels of barium were detected in the majority of groundwater samples, and cobalt, copper, nickel, and zinc were detected less frequently. These metals are considered naturally occurring in site soils.

Performance Monitoring

In accordance with the CAP, MNA parameters are collected annually during the second monitoring event. MNA data are evaluated in triennial Corrective Measures Status Evaluation Reports and collected from select wells in the assessment monitoring program, three AMW series wells (AMW-4, AMW-5, and AMW-14), and unimpacted upgradient well PH1-GWA-4 (refer to Table A). MNA laboratory analysis includes: total alkalinity, TDS, chloride, sulfate, and nitrate, and field testing for ferrous iron, dissolved oxygen, ORP, and carbon dioxide that is collected annually. An evaluation of the CAP program remedies is completed every three years and previous Corrective Measures Status Evaluation Reports were submitted to EPD with the second 2010, second 2013, and second 2016 groundwater monitoring reports. The current Corrective Measures Status Evaluation is included as Attachment B. The next Corrective Measures Status Evaluation Report will be provided in conjunction with the second 2022 report.

Hydraulic Gradient and Groundwater Flow Velocity

The December 2019 groundwater level measurements were used to calculate groundwater elevations and to prepare a potentiometric surface map (Figure 1). The groundwater flow velocity was calculated using the potentiometric surface depicted in Figure 1 and estimated hydraulic conductivity measurements from previous studies of the facility. Groundwater flow velocity calculations are provided in Table 5. The results of these calculations indicate that groundwater flows at a calculated rate of approximately 170 feet per year, generally to the northeast and northwest (in a sub-radial pattern).

Surface Water

Eleven surface water sampling points (SWA-1, SWA-2, and SWC-1 through SWC-9) are monitored semi-annually at the landfill. Locations SWA-1, SWC-7, SWC-8, and SWC-9 were dry during this event and were not sampled. Surface water samples are analyzed for COD, total cyanide, total organic carbon, chloride, and metals (as summarized on Table 6). Low-level concentrations of total organic carbon, chloride, and/or barium were detected in one or more samples. In addition, SWC-4 and SWC-6 are monitored for Appendix I VOCs. There were no detections of VOCs in the SWC-4 sample. Due to detections of VOCs above a GWPS in samples from PH1-GWC-3 and PH1-GWC-3A, Appendix I VOC sampling/analysis has voluntarily been added to SWC-6 (see Table A). Refer to correspondence dated June 14, 2017, titled “Response to April 25, 2017 EPD Letter” for the demonstration that SWC-6 is appropriate to monitor groundwater to surface water discharge from PH1-GWC-3/3A. There was an unverified cis-1,2-DCE was detected in the sample from SWC-6 at a concentration of 5.2 µg/L. A verification re-sample of SWC-6 VOCs was collected February 24, 2020 and the concentration was verified (4.0 µg/L). Both SWC-6 concentrations of cis-1,2-DCE are well below the MCL of 70 µg/L (there is no instream water quality standard for cis-1,2-DCE).

Statistical Analysis

According to EPD Rules for Solid Waste Management, a determination must be made as to if there is a statistically significant increase (SSI) over background values for each constituent that is part of the groundwater monitoring program. Paragraph (18) of Georgia Rule 391-3-4-.14 requires using one of the following types of tests: a) parametric analysis of variance (ANOVA), b) ANOVA based on the ranks followed by multiple comparison procedures, c) a tolerance or prediction interval analysis, d) a control chart approach that gives control limits for each constituent, or e) another statistical test method that meets the performance standards of paragraph (19). The statistical analysis was performed in accordance with the Solid Waste Rules. Pertinent sections of the EPA guidance document titled *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance (March 2009)* are utilized, as necessary. The document recommends using one of three types of tests: analysis of variance (ANOVA), tolerance limits, or prediction interval analysis. The document stipulates that a parametric test should be used for all constituents where:

1. The residuals of the data are normally distributed;
2. There is homogeneity of groundwater quality data variance among wells;
3. The proportion of non-detection is less than 15%; and
4. There are no significant seasonal effects upon the data.

If these criteria are not met, then a non-parametric test should be used. None of the constituents meet all four of the aforementioned criteria. As a result, the statistical test chosen for every Appendix I constituent in the current sampling event was the Kruskal-Wallis, non-parametric ANOVA. This test is based on ranks followed by multiple comparison procedures to identify specific sources of difference. As presented in the CAP, groundwater VOCs occur in two distinct areas of the site. VOCs in groundwater in and around Phase I are not contiguous with those on the north side of the site around Phase II MSWL and Phase III MSWL. As a result, two sets of statistics are utilized, where one set considers only Phase I, and the other set considers the rest of the site.

For the Phase I area, three of five upgradient wells (PH1-GWA-1, PH1-GWA-1A, and PH1-GWA-2) have historic VOC detections and are evaluated statistically along with hydraulically

downgradient wells. Therefore PH1-GWA-3A and PH1-GWA-4 are used for upgradient statistical comparisons. To maintain the integrity of PH1-GWA-4 as a background monitoring location in statistical calculations, the unverified arsenic detection from the December 2011 event has been removed from the statistical database to avoid false negative results. For Phases II-IV of the facility, GWA-1A and GWA-3 have had historical VOC detections and are statistically evaluated as downgradient wells. For Phases II-IV, wells GWA-1 and GWA-2 are used as upgradient wells for statistical purposes. The datasets from surrogate wells AMW-1 and AMW-2 are appended to the datasets for GWC-15 and GWC-16A, respectively, for statistical analysis.

As noted in the CAP, concentration trends in a number of wells appeared to change following capping activities completed in late 1999 (pathways of gas migration possibly altered). Based on review of the database it was thought to be more conservative to run the statistical analysis with data after capping was completed. Data from the most recent 12 events are evaluated in statistical analysis.

The Kruskal-Wallis non-parametric ANOVA method compares each well with a group of background wells. The Kruskal-Wallis test can only determine which compliance well results are elevated with respect to background, but cannot determine which specific samples produce the statistical trigger. Therefore, this statistical method may identify false positive SSIs in wells with historical detections of a parameter when that parameter was not detected in samples from the current sampling.

Further analysis with a non-parametric tolerance interval (NPTI) test shows which specific results from a well indicate an increase over background. The Kruskal-Wallis test was used as a screening statistical test, and the parameters that showed SSIs from Kruskal-Wallis were further analyzed using an NPTI. The NPTI test has the capability of pinpointing which results cause the SSI and can identify Kruskal-Wallis false positive SSIs for parameters not detected in the current sampling data.

Kruskal-Wallis non-parametric ANOVA and NPTI statistical tests are included in Attachment B. Those wells and parameters found to have an SSI over background for the current event as determined by the Kruskal-Wallis ANOVA and the NPTI methods are listed in Table 7.

Twenty-six wells had one or more SSIs during this event, and seven wells had SSIs identified for analyte concentrations that were above the GWPS (see Table 7). Groundwater detections are addressed by the CAP remedies. Fifteen wells with VOC SSIs are currently in assessment monitoring, and eleven wells with SSIs are in the detection monitoring program (Table 7). The detection wells with SSIs were triggered only by low levels of cis-1,2-DCE, barium, cobalt, and/or zinc. The current concentrations of barium, cobalt, and zinc are typical of unimpacted groundwater in the region, and concentrations are well below the respective GWPS. It is recommended that these eleven wells remain in detection monitoring (Table A).

Summary and Recommendations

The results of the data evaluated from the December 2019 sampling event are summarized below:

- Groundwater generally flows, in a sub-radial pattern, towards the northeast and northwest, at a calculated rate of approximately 170 feet per year.
- VOCs at concentrations above respective GWPS are limited to wells in assessment monitoring status. Detections of groundwater VOCs are addressed by the CAP corrective remedies.
- Low-level concentrations of metals are detected in upgradient and downgradient groundwater and surface water sampling points. No verified groundwater metal concentration was above a GWPS, and detected metals are likely naturally occurring.
- There were SSIs for VOC concentrations in samples from assessment monitoring wells. The only SSIs for wells currently in detection monitoring were for low-level concentrations of cis-1,2-DCE (GWC-8), barium, cobalt (GWC-14), and/or zinc below respective GWPS; these detections are attributed to their typical presence in regional soils.
- There were no detections of VOCs in the sample from surface water location SWC-4. SWC-6 had a verified, low-level detection of cis-1,2-DCE well below the MCL; there is no established instream water quality standard. Location SWC-6 is monitored for VOCs to delineate concentrations of VOCs in samples from groundwater wells PH1-GWC-3 and PH1-GWC-3A.
- The overall pattern of VOC detections indicates natural attenuation is occurring, as evidenced by VOC reduction from peak levels and patterns of declining parent compounds like PCE coupled with an increase in daughter compounds (cis-1,2-DCE). Groundwater conditions continue to improve where the total number of sample concentrations above a GWPS has decreased from 29 during the First 2007 to 13 during the second 2019 event.

Forsyth County will continue implementing the EPD-approved monitoring and corrective action program at the Hightower Road MSWL. The next semi-annual monitoring event is scheduled for June 2020.

TABLES



Table A
Required Compliance Points & Parameters
Forsyth County - Hightower Road MSWLF

Location	1st Semi-Annual Event	2nd Semi-Annual Event	Well Status
Phase I Groundwater Locations			
PH1-GWA-1	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWA-1A	App I	App I	Detection
PH1-GWA-2	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWA-3A	App I	App I	Detection
PH1-GWA-4	App I	App I + MNA	Detection
PH1-GWB-1	App I	App I	Detection
PH1-GWB-2	App I	App I	Detection
PH1-GWC-1	App I	App I	Detection
PH1-GWC-2	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWC-3	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWC-3A	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWC-4	App I	App I	Detection
GWC-1	App I	App I	Detection
AMW-8	Water Level Only	Water Level Only	Delineation
AMW-9	App II VOCs + App I metals	App I	Delineation
AMW-10	Water Level Only	Water Level Only	Delineation
Phase II, III, and IV Groundwater Locations			
GWA-1	App I	App I	Detection
GWA-1A	App I	App I	Detection
GWA-2	App I	App I	Detection
GWA-3	App I	App I	Detection
GWC-2	App I	App I	Detection
GWC-3	App I	App I	Detection
GWC-3A	App I	App I	Detection
GWC-4	App I	App I	Detection
GWC-4A	App I	App I	Detection
GWC-5	App I	App I	Detection
GWC-6	App I	App I	Detection
GWC-7	App I	App I	Detection
GWC-8	App I	App I	Detection
GWC-8A	App II VOCs + App I metals	App I + MNA	Assessment
GWC-8R	App II VOCs + SVOCs	App I VOCs + MNA	Assessment (Partial)
GWC-9	App I	App I	Detection
GWC-10	App I	App I	Detection
GWC-10A	App I	App I	Detection
GWC-11	App I	App I	Detection
GWC-12	App I	App I	Detection
GWC-12A	App I	App I	Detection
GWC-13	App I	App I	Detection
GWC-14	App I	App I	Detection
GWC-14A	App II VOCs + App I metals	App I + MNA	Assessment
GWC-14R	App II VOCs + SVOCs	App I VOCs + MNA	Assessment (Partial)
GWC-15	App II VOCs + App I metals	App I + MNA	Assessment
GWC-16A	App II VOCs + App I metals	App I + MNA	Assessment

Notes:

1. App I = Appendix I VOCs and metals.
2. App II = Appendix II VOCs and metals, SVOCs, pesticides/PCBs, herbicides.
3. Every three years, the full list of Appendix II parameters in 40 CFR Part 258, Subpart E, 56 Fed. Reg. 51032-51039 (October 9, 1991) are analyzed in assessment wells. The next full Appendix II list sampling will be the first 2022 event.
4. GA SW Parameters = metals (As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg), chloride, cyanide, chemical oxygen demand, & TOC.
5. Verified detections of App II compounds are added to the assessment monitoring analyte list during the second semi-annual monitoring event.
6. MNA = Monitored Natural Attenuation Parameter List (dissolved oxygen, nitrate, sulfate, ferrous iron, chloride, redox (ORP), carbon dioxide, total dissolved solids (TDS) and total alkalinity).



Table A (Continued)
Required Compliance Points & Parameters
Forsyth County - Hightower Road MSWLF

Location	1st Semi-Annual Event	2nd Semi-Annual Event	Well Status
Phase II, III, and IV Groundwater Locations (Continued)			
GWC-17	App II VOCs + App I metals	App I + MNA	Assessment
GWC-18	App II VOCs + App I metals	App I + MNA	Assessment
GWC-19R	App II VOCs + App I metals	App I + MNA	Assessment
GWC-22	App I	App I	Detection
GWC-23	App I	App I	Detection
GWC-23A	App I	App I	Detection
GWC-24	App II VOCs + App I metals	App I VOCs + MNA	Assessment
AMW-1	Water Level Only	Water Level Only	Delineation
AMW-2	Water Level Only	Water Level Only	Delineation
AMW-3	Water Level Only	Water Level Only	Delineation
AMW-4	App II VOCs	App I VOCs + MNA	Delineation
AMW-5	App II VOCs	App I VOCs + MNA	Delineation
AMW-11R	Water Level Only	Water Level Only	Delineation
AMW-12	App II VOCs	App I VOCs	Delineation
AMW-12R	App II VOCs	App I VOCs	Delineation
AMW-13	App II VOCs + App I metals	App I	Delineation
AMW-14	App II VOCs	App I VOCs + MNA	Delineation
FB-1	App I	App I	Quality Control
FB-2	App I	App I	Quality Control
TB	App II VOCs	App I VOCs	Quality Control
Surface Water Locations			
SWA-1	GA SW Parameters	GA SW Parameters	Surface Water
SWA-2	GA SW Parameters	GA SW Parameters	Surface Water
SWC-1	GA SW Parameters	GA SW Parameters	Surface Water
SWC-2	GA SW Parameters	GA SW Parameters	Surface Water
SWC-3	GA SW Parameters	GA SW Parameters	Surface Water
SWC-4	GA SW Parameters + App I VOCs	GA SW Parameters + App I VOCs	Surface Water
SWC-5	GA SW Parameters	GA SW Parameters	Surface Water
SWC-6	GA SW Parameters + App I VOCs	GA SW Parameters + App I VOCs	Surface Water
SWC-7	GA SW Parameters	GA SW Parameters	Surface Water
SWC-8	GA SW Parameters	GA SW Parameters	Surface Water
SWC-9	GA SW Parameters	GA SW Parameters	Surface Water

Notes:

1. App I = Appendix I VOCs and metals.
2. App II = Appendix II VOCs and metals, SVOCs, pesticides/PCBs, herbicides.
3. Every three years, the full list of Appendix II parameters in 40 CFR Part 258, Subpart E, 56 Fed. Reg. 51032-51039 (October 9, 1991) are analyzed in assessment wells. The next full Appendix II list sampling will be the first 2022 event.
4. GA SW Parameters = metals (As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg), chloride, cyanide, chemical oxygen demand, & TOC.
5. Verified detections of App II compounds are added to the assessment monitoring analyte list during the second semi-annual monitoring event.
6. MNA = Monitored Natural Attenuation Parameter List (dissolved oxygen, nitrate, sulfate, ferrous iron, chloride, redox (ORP), carbon dioxide, total dissolved solids (TDS) and total alkalinity).

Table 1
Summary of Water Quality Parameters
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Methane in Headspace (%v/v)
PH1-GWA-1	Bailer	5.22	49	16.3	20	0.0
PH1-GWA-1A	Sub. Pump	5.94	46	19.7	21	NR
PH1-GWA-2	Bailer	5.72	94	16.8	24	0.0
PH1-GWA-3A	Sub. Pump	5.66	36	19.6	4.8	NR
PH1-GWA-4	Bailer	5.29	20	16.3	40	NR
PH1-GWB-1	Bailer	4.84	29	17.5	35	NR
PH1-GWB-2	Bailer	5.15	34	16.5	15	NR
PH1-GWC-1	Bailer	6.00	174	14.6	3.2	NR
PH1-GWC-2	Sub. Pump	6.13	107	19.8	9.5	0.0
PH1-GWC-3	Bailer	5.73	140	14.6	4.6	0.0
PH1-GWC-3A	Bailer	6.26	159	14.7	33	0.0
PH1-GWC-4	Purged Dry					NR
GWA-1	Bailer	5.10	48	15.6	20	NR
GWA-1A	Bailer	5.42	154	14.4	4.3	NR
GWA-2	Bailer	5.06	17	16.2	18	NR
GWA-3	Bailer	5.40	17	17.7	36	NR
GWC-1	Bailer	5.21	78	14.5	41	NR
GWC-2	Bailer	5.61	39	15.1	26	NR
GWC-3	Bailer	5.28	26	14.5	6.0	NR
GWC-3A	Bailer	4.96	33	14.7	45	NR
GWC-4	Purged Dry - Refer to Surrogate GWC-4A					NR
GWC-4A	Bailer	6.22	63	16.4	1.9	NR
GWC-5	Bailer	5.29	21	14.4	11	NR
GWC-6	Bailer	6.44	57	14.5	9.0	NR
GWC-7	Bailer	5.00	41	17.0	30	NR
GWC-8	Bailer	5.36	74	14.5	9.2	NR
GWC-8A	Bailer	5.68	309	12.4	11	0.0
GWC-8R	Bailer	5.95	252	13.1	16	0.0
GWC-9	Bailer	5.08	85	14.0	44	NR
GWC-10	Bailer	5.14	24	13.5	17	NR
GWC-10A	Bailer	5.11	57	12.6	15	NR
GWC-11	Bailer	5.17	22	15.9	147	NR
GWC-12	Bailer	4.71	210	13.9	25	NR
GWC-12A	Bailer	5.04	36	13.5	24	NR
GWC-13	Bailer	5.22	19	17.3	30	NR
GWC-14	Bailer	5.19	61	14.9	5.9	NR
GWC-14A	Bailer	5.96	359	14.4	9.4	0.0
GWC-14R	Bailer	5.91	265	13.9	8.7	0.0

Notes: Groundwater samples collected December 9-13, 2019.

Acronyms: °C = Degrees Celsius
µS/cm = microSiemens/centimeter
NTU = Nephelometric Turbidity Units
NR = Not required
%v/v = percent by volume
S.U. = Standard Units

Table 1
Summary of Water Quality Parameters
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Temperature ($^{\circ}\text{C}$)	Turbidity (NTU)	Methane in Headspace (%v/v)
GWC-15	Purged Dry - Refer to Surrogate AMW-1					0.0
GWC-16A	Purged Dry - Refer to Surrogate AMW-2					0.0
GWC-17	Bailer	5.58	106	15.2	4.6	0.0
GWC-18	Bailer	5.29	101	13.7	32	0.0
GWC-19R	Bailer	5.33	75	17.2	11	0.0
GWC-22	Bailer	5.53	22	17.8	15	NR
GWC-23	Bailer	5.69	17	19.9	7.5	NR
GWC-23A	Bailer	5.87	32	20.2	9.4	NR
GWC-24	Bailer	5.26	115	11.5	3.6	0.0
AMW-1	Sub. Pump	5.69	113	19.2	19	0.0
AMW-2	Bailer	6.14	165	13.8	35	0.0
AMW-4	Bailer	5.48	91	13.8	**	0.0
AMW-5	Bailer	5.81	86	14.3	**	0.0
AMW-9	Purged Dry					0.0
AMW-12	Bailer	5.86	40	14.5	**	0.0
AMW-12R	Bailer	5.90	50	13.8	**	0.0
AMW-13	Purged Dry					0.0
AMW-14	Bailer	5.69	87	13.9	**	0.0

Notes: Groundwater samples collected December 9-13, 2019.

** = Metals not required.

Acronyms: $^{\circ}\text{C}$ = Degrees Celsius
 $\mu\text{S}/\text{cm}$ = microSiemens/centimeter
 NTU = Nephelometric Turbidity Units
 NR = Not required
 %v/v = percent by volume
 S.U. = Standard Units

Table 2
Summary of Groundwater Elevation Data
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
PHASE I WELLS				
PH1-GWA-1	48.66	1176.37	41.99	1134.38
PH1-GWA-1A	108.00	1176.35	42.43	1133.92
PH1-GWA-2	53.60	1183.40	37.69	1145.71
PH1-GWA-3A	205.00	1187.16	37.75	1149.41
PH1-GWA-4	57.00	1191.14	38.94	1152.20
PH1-GWB-1	53.80	1179.10	42.60	1136.50
PH1-GWB-2	42.22	1155.04	32.71	1122.33
PH1-GWC-1	23.79	1074.66	9.35	1065.31
PH1-GWC-2	127.61	1103.93	23.50	1080.43
PH1-GWC-3	23.42	1096.96	12.24	1084.72
PH1-GWC-3A	55.42	1096.28	11.26	1085.02
PH1-GWC-4	33.71	1124.26	32.93	1091.33
GWC-1	38.80	1102.25	29.94	1072.31
AMW-8	50.40	1186.23	43.02	1143.21
AMW-9	41.69	1162.64	41.19	1121.45
AMW-10	56.81	1180.73	51.91	1128.82
PHASE II - IV WELLS				
GWA-1	62.85	1187.70	57.03	1130.67
GWA-1A	141.00	1187.49	56.29	1131.20
GWA-2	52.18	1137.30	42.70	1094.60
GWA-3	48.86	1154.53	45.69	1108.84
GWC-2	55.61	1103.64	46.95	1056.69
GWC-3	39.71	1092.39	36.09	1056.30
GWC-3A	68.95	1094.67	34.58	1060.09
GWC-4	49.81	1132.82	49.47	1083.35
GWC-4A	89.23	1132.39	39.23	1093.16
GWC-5	49.91	1084.55	45.80	1038.75
GWC-6	34.52	1064.01	25.36	1038.65
GWC-7	54.21	1093.44	43.53	1049.91
GWC-8	27.53	1095.63	22.68	1072.95
GWC-8A	46.71	1095.44	21.91	1073.53
GWC-8R	94.67	1098.40	24.71	1073.69
GWC-9	60.50	1093.58	49.75	1043.83
GWC-10	37.51	1068.56	26.01	1042.55

Notes: Depths to water measured on December 9, 2019.

Acronyms: ft BTOC = feet below top of casing
ft MSL = feet Mean Sea Level

Table 2 (Continued)
Summary of Groundwater Elevation Data
Forsyth County - Hightower Rd MSWLF
December 2019 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
PHASE II - IV WELLS				
GWC-10A	54.30	1066.45	26.81	1039.64
GWC-11	46.80	1054.08	36.04	1018.04
GWC-12	40.06	1038.06	32.39	1005.67
GWC-12A	49.44	1038.09	33.34	1004.75
GWC-13	44.95	1090.82	34.62	1056.20
GWC-14	28.37	1089.49	24.64	1064.85
GWC-14A	64.75	1089.32	24.22	1065.10
GWC-14R	93.61	1078.60	15.20	1063.40
GWC-15	62.84	1125.68	59.43	1066.25
GWC-16A	51.05	1136.49	DRY	DRY
GWC-17	21.59	1107.78	15.92	1091.86
GWC-18	52.70	1094.87	44.79	1050.08
GWC-19R	39.87	1105.79	28.02	1077.77
GWC-22	35.05	1079.01	22.35	1056.66
GWC-23	32.22	1079.06	18.85	1060.21
GWC-23A	61.67	1079.10	19.01	1060.09
GWC-24	44.09	1102.32	38.03	1064.29
AMW-1	180.70	1130.04	62.62	1067.42
AMW-2	150.00	1101.96	48.44	1053.52
AMW-3	28.50	1041.09	10.38	1030.71
AMW-4	18.80	1040.09	5.09	1035.00
AMW-5	23.06	1049.32	8.44	1040.88
AMW-11R	58.10	1053.63	11.12	1042.51
AMW-12	19.56	1056.85	8.81	1048.04
AMW-12R	46.43	1056.34	10.57	1045.77
AMW-13	36.18	1093.09	35.98	1057.11
AMW-14	21.70	1052.73	10.03	1042.70

Notes: Depths to water measured December 9, 2019.

Acronyms: ft BTOC = feet below top of casing
ft MSL = feet Mean Sea Level

Table 3
 Summary of Appendix I/II Organic Compound Detections
 Forsyth County - Hightower Road MSWLF
 December 2019 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chloro-ethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	BHC-beta (µg/L)
GWPS	810*	5	4.6*	70	5	5	2	NE***
PHASE I WELLS								
PH1-GWA-1	--	--	--	3.7	--	<u>3.1</u>	--	--
PH1-GWA-1A	--	--	--	--	--	--	--	NA
PH1-GWA-2	--	--	--	120	<u>2.4</u>	7.3	--	NA
PH1-GWA-3A	--	--	--	--	--	--	--	NA
PH1-GWA-4	--	--	--	--	--	--	--	NA
PH1-GWB-1	--	--	--	--	--	--	--	NA
PH1-GWB-2	--	--	--	--	--	--	--	NA
PH1-GWC-1	--	--	--	--	--	--	--	NA
PH1-GWC-2	3.7	--	--	5.7	6.3	2.6	--	NA
PH1-GWC-3	4.0	--	--	27	13	8.7	--	NA
PH1-GWC-3A	3.1	--	--	16	7.4	8.4	--	NA
PH1-GWC-4	Purged Dry							
GWC-1	--	--	--	--	--	--	--	NA
AMW-9	Purged Dry							
PHASE II - IV WELLS								
GWA-1	--	--	--	--	--	--	--	NA
GWA-1A	--	--	--	--	--	--	--	NA
GWA-2	--	--	--	--	--	--	--	NA
GWA-3	--	--	--	--	--	--	--	NA
GWC-2	--	--	--	--	--	--	--	NA
GWC-3	--	--	--	--	--	--	--	NA
GWC-3A	--	--	--	--	--	--	--	NA
GWC-4	Purged Dry; Refer to Surrogate GWC-4A							
GWC-4A	--	--	--	--	--	--	--	NA
GWC-5	--	--	--	--	--	--	--	NA
GWC-6	--	--	--	--	--	--	--	NA
GWC-7	--	--	--	--	--	--	--	NA
GWC-8	--	--	--	<u>2.8</u>	--	--	--	NA
GWC-8A	3.7	<u>2.8</u>	--	33	--	--	--	NA
GWC-8R	9.3	--	--	24	--	--	--	NA
GWC-9	--	--	--	--	--	--	--	NA
GWC-10	--	--	--	--	--	--	--	NA
GWC-10A	--	--	--	--	--	--	--	NA
GWC-11	--	--	--	--	--	--	--	NA
GWC-12	--	--	--	--	--	--	--	NA
GWC-12A	--	--	--	--	--	--	--	NA
GWC-13	--	--	--	--	--	--	--	NA
GWC-14	--	--	--	--	--	--	--	NA
GWC-14A	14	2.6	3.6	65	--	3.1	4.0	NA
GWC-14R	14	--	--	19	--	4.3	--	NA
GWC-15	Purged Dry; Refer to Surrogate AMW-1							
GWC-16A	Purged Dry; Refer to Surrogate AMW-2							
GWC-17	--	--	--	<u>15</u>	--	--	--	NA
GWC-18	--	--	--	30	7.4	<u>2.6</u>	--	NA
GWC-19R	--	--	--	11	--	--	--	NA
GWC-22	--	--	--	--	--	--	--	NA
GWC-23	--	--	--	--	--	--	--	NA
GWC-23A	--	--	--	--	--	--	--	NA
GWC-24	--	--	--	6.1	--	--	--	NA
AMW-1	23	--	--	51	31	55	--	NA
AMW-2	--	--	--	<u>2.1</u>	--	--	--	NA
AMW-4	2.9	--	--	18	6.4	3.6	--	NA

Table 3
Summary of Appendix I/II Organic Compound Detections
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chloro-ethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	BHC-beta (µg/L)
GWPS	810*	5	4.6*	70	5	5	2	NE***
AMW-5	--	--	--	--	--	--	--	NA
AMW-12	--	--	--	--	2.5	--	--	NA
AMW-12R	--	--	--	--	8.0	--	--	NA
AMW-13	Purged Dry							
AMW-14	--	--	--	2.7	--	--	--	NA

Notes: Groundwater samples collected December 9-13, 2019.

-- = Below laboratory reporting limit.

Shaded and bold values indicate concentrations above GWPS.

* No MCL exists and the GWPS is the EPA Region IX PRG.

***GWPS will be established following a verified detection.

Underlined concentrations are considered unverified.

Acronyms: µg/L = micrograms per liter

NA = Not analyzed; not required.

NE = Not Established

1,1-DCA = 1,1-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene;

PCE = Tetrachloroethene; TCE = Trichloroethene

GWPS = Groundwater Protection Standard is the EPA Maximum Contaminant Level (MCL), or the EPA Region IX Preliminary Remediation Goals (PRG) if an MCL is not established.

Table 4a
Summary of MNA Indicator Parameters
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Well ID	Alkalinity (mg/L as CaCO ₃)	Total Dissolved Solids	Chloride	Sulfate	Ferrous Iron ¹	Dissolved Oxygen ¹	ORP (rel mV) ¹	Carbon Dioxide ¹	Nitrate Nitrogen
UNIMPACTED UPGRADIENT WELL									
PH1-GWA-4	7.04	--	2.1	--	0.0	5.1	199	45	--
PHASE I ASSESSMENT WELLS									
PH1-GWA-1	27.6	28	2.8	--	1.2	1.4	159	190	--
PH1-GWA-2	46.2	61	4.7	--	1.0	2.4	311	190	--
PH1-GWC-2	62.2	95	2.9	2.1	2.8	1.5	111	55	--
PH1-GWC-3	60	101	4.0	3.0	0.0	1.6	200	15	--
PH1-GWC-3A	77.6	112	1.9	--	0.0	2.4	186	20	--
PHASE II - IV ASSESSMENT WELLS									
GWC-8A	142	105	4.6	--	2.5	2.4	49	400	--
GWC-8R	133	149	3.1	2.5	2.2	2.7	33	85	--
GWC-14A	167	183	16	2.2	2.5	3.5	69	300	--
GWC-14R	143	171	7.3	3.4	0.0	3.7	228	150	--
GWC-15	Purged Dry; Refer to AMW-1								
GWC-16A	Purged Dry; Refer to AMW-2								
GWC-17	35.8	51	2.4	1.2	0.0	3.4	116	75	1.3
GWC-18	25.5	41	5.1	--	2.3	3.3	156	150	1.2
GWC-19R	44	63	2.0	1.6	0.5	4.1	152	200	0.3
GWC-24	33.4	53	2.1	1.6	0.0	8.6	176	175	--
AMW SERIES WELLS									
AMW-1	68.1	107	1.9	3.7	0.0	1.9	187	30	0.7
AMW-2	74.1	110	2.3	6.2	0.0	2.5	227	50	0.42
AMW-4	41.2	60	3.5	--	0.5	2.6	232	135	--
AMW-5	31.9	60	4.1	3.3	0.5	2.0	178	60	--
AMW-14	31.5	65	4.3	2.8	0.0	3.1	307	35	--

Notes: ¹ = Field measurement.

Units are milligrams per liter (mg/L) unless otherwise noted.

Groundwater samples collected December 9-13, 2019.

-- = Below laboratory reporting limit.

Acronyms: NM = Not measured (purged dry and did not sufficiently recover; limited sample collection).

rel MV = relative millivolts

ORP = Oxidation reduction potential



PROJECT NUMBER: G020-113 PAGE: 1 OF 1
 PROJECT NAME: Forsyth County BY: OF DATE: December 2019
 SUBJECT: Hightower Road MSWLF CHECKED: CA DATE: February 2020

Table 5
Calculated Groundwater Flow Rate
December 2019 Sampling Event

Equation

$$V = \frac{(k)(i)}{(ne)}$$

where: V = groundwater velocity
 k = hydraulic conductivity
 i = hydraulic gradient
 ne = effective porosity

Assumptions

Reference

(k) = the site average hydraulic conductivity (average k for GWA-2, GWC-3, GWC-4, & GWC-10)	=	1.0 ft/day	(Ref. 1)
i ₁ = dh/dl from PH1-GWA-2 to GWC-1	=	0.082 ft/ft	(Figure 1)
i ₂ = dh/dl from GWA-3 to GWC-2	=	0.102 ft/ft	
i ₃ = dh/dl from GWA-2 to GWC-23	=	0.086 ft/ft	
i ₄ = dh/dl from GWC-8 to AMW-11R	=	0.103 ft/ft	
(i) = Arithmetic Average (i ₁ , i ₂ , i ₃ , i ₄)	=	0.093 ft/ft	
(ne)	=	20%	(Ref. 1)

Calculation

$$V = \frac{(1.0 \text{ ft/day})(0.093 \text{ ft/ft})}{20\%}$$

V = 0.47 ft/day
170 ft/year

Notes: ft = feet

(1) October 8, 2004 Assessment of Corrective Measures Report hydraulic conductivity range is 0.0295 to 1.21 feet/day.

Table 6
Summary of Surface Water Detections & Field Parameters
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Location	cis-1,2-DCE (µg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Barium (mg/L)
SWA-2	NS	--	--	2.52	--
SWC-1	NS	--	--	7.35	--
SWC-2	NS	--	--	2.47	--
SWC-3	NS	--	--	3.00	0.029
SWC-4	--	--	--	3.03	--
SWC-5	NS	3.07	--	28.2	0.042
SWC-6^	5.2/4.0	1.16	--	13.2	0.031

ID	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
SWA-1	Dry				
SWA-2	6.47	28	12.8	15	7.6
SWC-1	7.27	103	7.1	0.0	7.4
SWC-2	6.32	29	11.9	34	6.9
SWC-3	6.29	34	13.4	36	7.9
SWC-4	7.31	49	8.7	0.0	8.3
SWC-5	6.82	271	7.6	0.0	8.2
SWC-6	6.51	130	8.4	0.0	6.6
SWC-6^	5.92	174	14.8	0.8	6.9
SWC-7	Dry				
SWC-8	Dry				
SWC-9	Dry				

Notes: Surface water samples were collected on December 12, 2019.

-- = Below laboratory reporting limit.

^ = Verification volatile organic compound (VOC) sample collected February 26, 2020.

Surface water samples are grab samples.

No VOCs detected in SWC-4 sample.

Acronyms: °C = Degrees Celsius

cis-1,2-DCE = cis-1,2-Dichloroethene

mg/L = milligrams per liter

µS/cm = microSiemens/centimeter

NTU = Nephelometric Turbidity Units

NS = not sampled/not required

S.U. = Standard Units

Table 7
Summary of Statistically Significant Increases
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Well ID	Appendix I VOCs							Appendix I Metals		
	1,1-DCA	Benzene	Chloro-ethane	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Total Barium	Total Cobalt	Total Zinc
PHASE I DOWNGRADIENT NETWORK WELLS*										
PH1-GWA-1				X					X	
PH1-GWA-2				X	X	X		X		
PH1-GWB-1								X		
PH1-GWC-1								X		
PH1-GWC-2	X			X	X					
PH1-GWC-3	X			X	X	X				
PH1-GWC-3A	X			X	X	X				
GWC-1								X		
PHASE II - IV DOWNGRADIENT NETWORK WELLS*										
GWA-3										
GWC-3A										
GWC-4A										
GWC-7								X		
GWC-8										
GWC-8A	X	X		X				X		
GWC-8R	X			X						
GWC-9								X		X
GWC-10										X
GWC-14									X	
GWC-14A	X	X	X	X		X	X	X	X	
GWC-14R	X			X		X				
GWC-15	X			X	X	X		X		
GWC-16A				X						
GWC-17				X						
GWC-18				X	X	X		X		
GWC-19R				X				X		
GWC-24				X						

Notes: X = Statistically Significant Increase indicated; AMW series wells not statistically evaluated.

Shaded cells indicate a concentration above a Groundwater Protection Standard (GWPS).

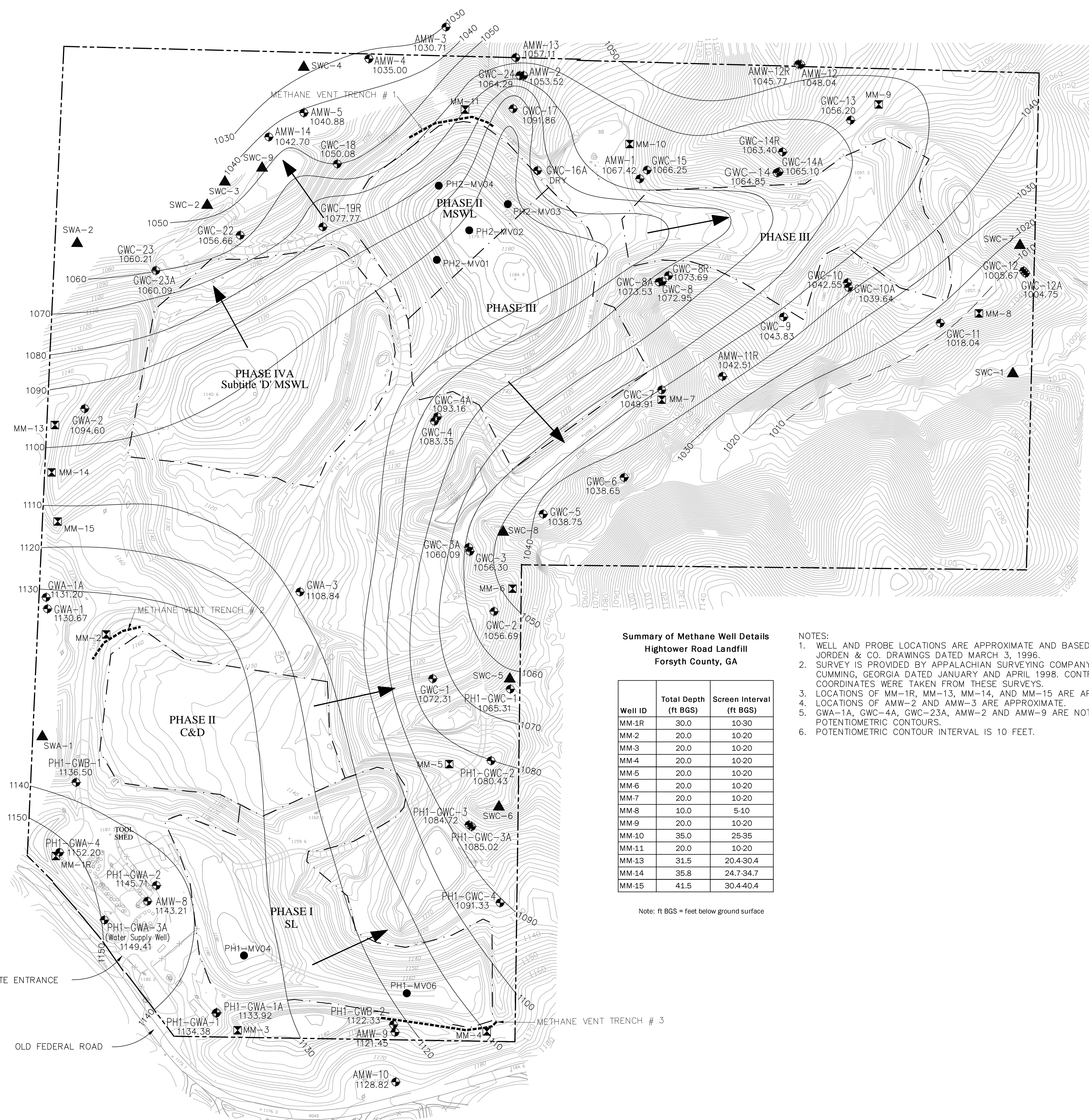
* Phase I wells PH1-GWA-3A and PH1-GWA-4 are historically unimpacted and used for upgradient comparison;

Phase II-IV wells GWA-1 and GWA-2 are used for upgradient comparison.

Acronyms: 1,1-DCA = 1,1-Dichloroethane PCE = Tetrachloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene TCE = Trichloroethene

FIGURES

P:\Governmental\0200-Forsyth County\11-2018 Environmental Monitoring Services\1 - 2nd 2019 GWA Event\GWA\Forsyth Co 2nd 2019 Pot Map.dwg 2020-03-04 CHARLES ADAMS



Summary of Methane Well Details
Hightower Road Landfill
Forsyth County, GA

Well ID	Total Depth (ft BGS)	Screen Interval (ft BGS)
MM-1R	30.0	10-30
MM-2	20.0	10-20
MM-3	20.0	10-20
MM-4	20.0	10-20
MM-5	20.0	10-20
MM-6	20.0	10-20
MM-7	20.0	10-20
MM-8	10.0	5-10
MM-9	20.0	10-20
MM-10	35.0	25-35
MM-11	20.0	10-20
MM-13	31.5	20.4-30.4
MM-14	35.8	24.7-34.7
MM-15	41.5	30.4-40.4

Note: ft BGS = feet below ground surface

- NOTES:
1. WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO. DRAWINGS DATED MARCH 3, 1996.
 2. SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
 3. LOCATIONS OF MM-1R, MM-13, MM-14, AND MM-15 ARE APPROXIMATE.
 4. LOCATIONS OF AMW-2 AND AMW-3 ARE APPROXIMATE.
 5. GWA-1A, GWC-4A, GWC-23A, AMW-2 AND AMW-9 ARE NOT USED FOR POTENTIOMETRIC CONTOURS.
 6. POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.

Summary of Groundwater Elevation Data
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
PHASE I WELLS				
PH1-GWA-1	48.66	1176.37	41.99	1134.38
PH1-GWA-1A	108.00	1176.35	42.43	1133.92
PH1-GWA-2	53.60	1183.40	37.69	1145.71
PH1-GWA-3A	205.00	1187.16	37.75	1149.41
PH1-GWA-4	57.00	1191.14	38.94	1152.20
PH1-GWB-1	53.80	1179.10	42.60	1136.50
PH1-GWB-2	42.22	1155.04	32.71	1122.33
PH1-GWC-1	23.79	1074.66	9.35	1065.31
PH1-GWC-2	127.61	1103.93	23.50	1080.43
PH1-GWC-3	23.42	1096.96	12.24	1084.72
PH1-GWC-3A	55.42	1096.28	11.26	1085.02
PH1-GWC-4	33.71	1124.26	32.93	1091.33
GWC-1	38.80	1102.25	29.94	1072.31
AMW-8	50.40	1186.23	43.02	1143.21
AMW-9	41.69	1162.64	41.19	1121.45
AMW-10	56.81	1180.73	51.91	1128.82
PHASE II - IV WELLS				
GWA-1	62.85	1187.70	57.03	1130.67
GWA-1A	141.00	1187.49	56.29	1131.20
GWA-2	52.18	1137.30	42.70	1094.60
GWA-3	48.86	1154.53	45.69	1108.84
GWC-2	55.61	1103.84	46.95	1056.89
GWC-3	39.71	1092.39	36.09	1056.30
GWC-3A	68.95	1094.67	34.58	1060.09
GWC-4	49.81	1132.82	49.47	1083.35
GWC-4A	89.23	1132.39	39.23	1093.16
GWC-5	49.91	1084.55	45.80	1038.75
GWC-6	34.52	1064.01	25.36	1038.65
GWC-7	54.21	1093.44	43.53	1049.91
GWC-8	27.53	1095.63	22.68	1072.95
GWC-8A	46.71	1095.44	21.91	1073.53
GWC-8R	94.67	1098.40	24.71	1073.69
GWC-9	60.50	1093.58	49.75	1043.83
GWC-10	37.51	1068.56	26.01	1042.55

Notes: Depths to water measured on December 9, 2019.
Acronyms: ft BTOC = feet below top of casing
ft MSL = feet Mean Sea Level

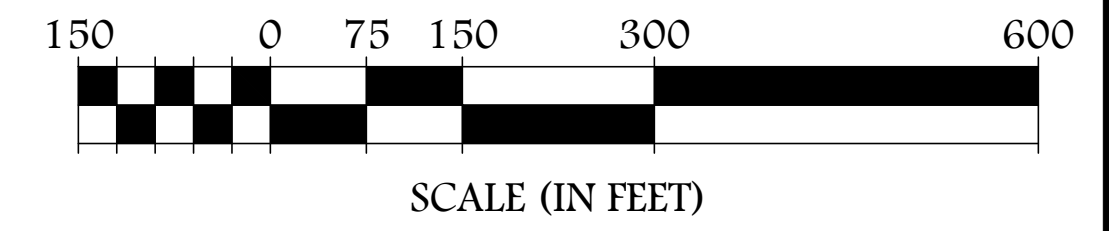
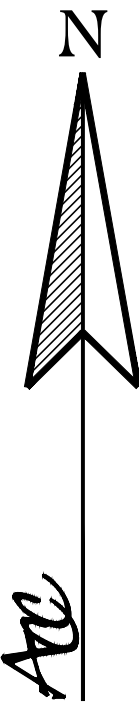
Summary of Groundwater Elevation Data
Forsyth County - Hightower Rd MSWLF
December 2019 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
PHASE II - IV WELLS				
GWC-10A	54.30	1066.45	26.81	1039.64
GWC-11	46.80	1054.08	36.04	1018.04
GWC-12	40.06	1038.06	32.39	1005.67
GWC-12A	49.44	1038.09	33.34	1004.75
GWC-13	44.95	1090.82	34.62	1056.20
GWC-14	28.37	1089.49	24.64	1064.85
GWC-14A	64.75	1089.32	24.22	1065.10
GWC-14R	93.61	1078.60	15.20	1063.40
GWC-15	62.84	1125.68	59.43	1066.25
GWC-16A	51.05	1136.49	DRY	DRY
GWC-17	21.59	1107.78	15.92	1091.86
GWC-18	52.70	1094.87	44.79	1050.08
GWC-19R	39.87	1105.79	28.02	1077.77
GWC-22	35.05	1079.01	22.35	1056.66
GWC-23	32.22	1079.06	18.85	1060.21
GWC-23A	61.67	1079.10	19.01	1060.09
GWC-24	44.09	1102.32	38.03	1064.29
AMW-1	180.70	1130.04	62.62	1067.42
AMW-2	150.00	1101.96	48.44	1053.52
AMW-3	28.50	1041.09	10.38	1030.71
AMW-4	18.80	1040.09	5.09	1035.00
AMW-5	23.06	1049.32	8.44	1040.88
AMW-11R	58.10	1053.63	11.12	1042.51
AMW-12	19.56	1056.85	8.81	1048.04
AMW-12R	46.43	1056.34	10.57	1045.77
AMW-13	36.18	1093.09	35.98	1057.11
AMW-14	21.70	1052.73	10.03	1042.70

Notes: Depths to water measured on December 9, 2019.
Acronyms: ft BTOC = feet below top of casing
ft MSL = feet Mean Sea Level

LEGEND

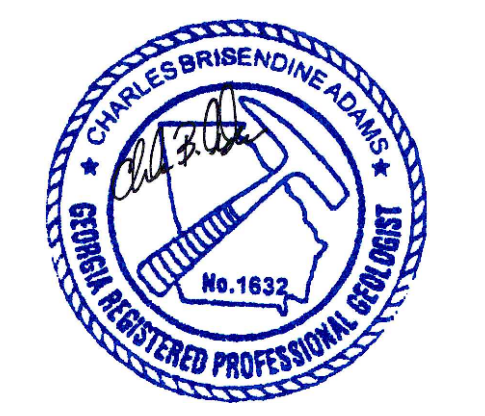
- APPROXIMATE PHASE BOUNDARY
- 1140 --- TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- ROAD
- GWA-1 1130.03 GROUNDWATER MONITORING WELL ELEVATION IN FEET MEAN SEA LEVEL
- ▲ SWA-4 SURFACE WATER SAMPLE LOCATIONS
- ⊠ MM-1 METHANE MONITORING POINT
- PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
- 1080 --- GROUNDWATER POTENTIOMETRIC CONTOUR (ELEVATION IN FEET MEAN SEA LEVEL)
- GROUNDWATER FLOW DIRECTION
- METHANE VENT TRENCH



SCALE (IN FEET)



ATLANTIC COAST CONSULTING, INC.
1150 Northmeadow Pkwy., Suite 100
Roswell, GA 30076
o 770.594.5998
f 770.594.5967
www.atlcc.net



PROJECT:
FORSYTH COUNTY HIGHTOWER ROAD LANDFILL

FORSYTH COUNTY, GA

FORSYTH COUNTY



FORSYTH COUNTY GOVERNMENT
110 E. MAIN STREET, SUITE 210
CUMMING, GA 30040
770-781-2101

REVISIONS

Drawn by: RW Checked by: CA

PROJECT NUMBER:
G020-113
February 2020

POTENTIOMETRIC SURFACE MAP
DECEMBER 2019

ATTACHMENTS

ATTACHMENT A
LABORATORY ANALYTICAL RESULTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 17, 2019

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth CO.- Hightower Rd

Dear Charles Adams:

Order No: 1912A56

Analytical Environmental Services, Inc. received 36 samples on 12/10/2019 3:12:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/19-06/30/20.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling
Project Manager



CHAIN OF CUSTODY

COMPANY: <u>ACC</u>		ADDRESS: <u>1150 Northmeadow Pkwy #100 Roswell, Ga 30070</u>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers																																																												
PHONE: <u>(770) 594-5998</u>		EMAIL: <u>CHARLES.ADAMS@ATLCO.NET</u>					<table border="1"> <tr> <td>APPI VOCs</td> <td>APPI METALS</td> <td>MS, CL, SO₄, TDS, MAX</td> <td>BHC-beta</td> <td>Sulfide</td> <td>Cyanide</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="10">PRESERVATION (see codes)</td> <td colspan="10" rowspan="2">REMARKS</td> </tr> <tr> <td>H+</td> <td>I</td> <td>N</td> <td>I</td> <td>F</td> <td>Zn</td> <td>NO₃</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												APPI VOCs	APPI METALS	MS, CL, SO ₄ , TDS, MAX	BHC-beta	Sulfide	Cyanide															PRESERVATION (see codes)										REMARKS										H+	I	N	I	F	Zn	NO ₃													
APPI VOCs	APPI METALS	MS, CL, SO ₄ , TDS, MAX	BHC-beta	Sulfide	Cyanide																																																																									
PRESERVATION (see codes)										REMARKS																																																																				
H+	I	N	I	F	Zn	NO ₃																																																																								
SAMPLED BY:		SIGNATURE:																																																																												
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)														REMARKS	Number of Containers																																																									
		DATE	TIME				H+	I	N	I	F	Zn	NO ₃																																																																	
1	GWA-1A	12-9-19	1100	✓		GW	2	1													3																																																									
2	GWA-1	12-9-19	1130	✓		GW	4															4																																																								
3	PHI-GWA-4	12-9-19	1225	✓		GW	2	1														3																																																								
4	PHI-GWA-1	12-9-19	1245	✓		GW	2	1	1													4																																																								
5	PHI-GWA-2	12-9-19	1315	✓		GW	2	1		1	1											5																																																								
6	GWC-19R	12-9-19	1345	✓		GW	2	1														3																																																								
7	GWA-1	12-10-19	0920	✓		GW		1														1																																																								
8	PHI-GWA-2	12-10-19	0925	✓		GW		1														1																																																								
9	PHI-GWA-4	12-10-19	0935	✓		GW		1														1																																																								
10	GWC-19R	12-10-19	0945	✓		GW		1														1																																																								
11	PHI-GWC-2	12-10-19	1050	✓		GW	2	1	1		1	1										6																																																								
12	PHI-GWA-1	12-10-19	1100	✓		GW		1														1																																																								
13	PHI-GWA-1A	12-10-19	1150	✓		GW	2	1														3																																																								
14	AMW-1	12-10-19	1300	✓		GW	2	1	1													4																																																								
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT																																																												
1. <u>[Signature]</u>		12/10/19 1330		1. <u>[Signature]</u>		12/10/19 1330		PROJECT NAME: <u>FORSYTH CO. - HIGHTOWER RD.</u>										Total # of Containers																																																												
2. <u>[Signature]</u>		12/10/19 1512		2. <u>[Signature]</u>		12/10/19 1512		PROJECT #:										Turnaround Time (TAT) Request																																																												
3.				3.				SITE ADDRESS:										<input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																																																												
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: <u>CHARLES ADAMS</u>										STATE PROGRAM (If any): _____																																																												
				OUT: / / VIA:				INVOICE TO (IF DIFFERENT FROM ABOVE):										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																																																												
				IN: / / VIA:														DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																																																												
				client FedEx UPS US mail <u>courier</u>		other: _____		QUOTE #: _____ PO#: _____																																																																						

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3080 Presidential Drive Atlanta, GA 30340-3704
 Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1912ASLc

Date: 12-10-19 Page 3 of

COMPANY:		ADDRESS:					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers				
Atlantic Coast Consulting		1150 Northmeadow Pkwy. Roswell GA					App J Vol	App J Metals	NO3	Cl	SO4	TDS	Alkalinity	Sulfide								
PHONE: 770-594-5998		EMAIL: Charles.adams@atlcc.net					PRESERVATION (see codes)										REMARKS					
SAMPLED BY: H. Auld		SIGNATURE: <i>[Signature]</i>					HI	N	NA	NA	NA	NA	NA	0								
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	HI	N	NA	NA	NA	NA	NA	0								
1	GWC-12	12-9-19	1030	G		GW	✓	✓													2	
2	GWC-12A		1050	G		GW	✓															2
3	AMW-14		1120	G		GW	✓		✓	✓	✓	✓	✓									3
4	GWC-18		1200	G		GW	✓		✓	✓	✓	✓	✓	✓								4
5	AMW-5		1235	G		GW	✓		✓	✓	✓	✓	✓									3
6	AMW-4		1305	G		GW	✓		✓	✓	✓	✓	✓									3
7	GWC-24		1340	G		GW	✓		✓	✓	✓	✓	✓	✓								4
8	PHI-GWC-3A		1425	G		GW	✓		✓	✓	✓	✓	✓									3
9	PHI-GWC-3		1420	G		GW	✓		✓	✓	✓	✓	✓	✓								4
10	GWC-12	12-10-19	0930	G		GW		✓														1
11	GWC-12A		0935	G		GW		✓														1
12	GWC-24		0945	G		GW		✓														1
13	GWC-18		0955	G		GW		✓														1
14	GWC-24 PHI-GWC-3A		1010	G		GW		✓														1

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	PROJECT INFORMATION	RECEIPT
1. <i>[Signature]</i>	12-10-19 1330	1. <i>[Signature]</i>	12-10-19 1330	PROJECT NAME: Forsyth Co	Total # of Containers
2. <i>[Signature]</i>	12-10 912	2. <i>[Signature]</i>	12/10/19 1512	PROJECT #:	Turnaround Time (TAT) Request
3.		3.		SITE ADDRESS:	<input type="checkbox"/> Standard
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO:	<input type="checkbox"/> 2 Business Day Rush
		OUT: / / VIA:		INVOICE TO (IF DIFFERENT FROM ABOVE):	<input type="checkbox"/> Next Business Day Rush
		IN: / / VIA:		QUOTE #:	<input type="checkbox"/> Same-Day Rush (auth req.)
		client FedEx UPS US mail <u>courier</u>		PO#:	<input type="checkbox"/> Other
		other: _____			STATE PROGRAM (if any): _____
					E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>
					DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.



CHAIN OF CUSTODY

COMPANY: ACC		ADDRESS: 1150 Northmeadow Pkwy Roswell, Ga 30076				ANALYSIS REQUESTED								Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers															
PHONE: (770) 594-5998		EMAIL: Charles.adams@aesatl.com				<table border="1"> <tr> <td>App I VOL</td> <td>App I Metals</td> <td>NO₃, Cl, SO₄, TDS</td> <td>Alkalinity</td> <td>Sulfide</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										App I VOL	App I Metals	NO ₃ , Cl, SO ₄ , TDS	Alkalinity	Sulfide										
App I VOL	App I Metals	NO ₃ , Cl, SO ₄ , TDS	Alkalinity	Sulfide																										
SAMPLED BY: H. Acid		SIGNATURE: <i>H. Acid</i>				PRESERVATION (see codes)																								
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)				REMARKS																			
		DATE	TIME				H	N	NY	O																				
1	PHI-GWC-3	12-10-19	1015	G		GW									1															
2	GWC-2		1105	G		GW									2															
3	GWC-3		1130	G		GW									2															
4	GWC-3A		1205	G		GW									2															
5	GWC-17		1235	G		GW									3															
6	GWC-5		1315	G		GW							Incomplete Sample		2															
7	Trip Blank			G		W									2															
8	Field Blank 1	12-10-19	1330	G		W									2															
9															3															
10																														
11																														
12																														
13																														
14																														
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 12-10-19 1330		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 12-10-19 1530		PROJECT INFORMATION				RECEIPT																		
1. <i>[Signature]</i>		2. <i>[Signature]</i>		PROJECT NAME: Forsyth Co.				Total # of Containers		Turnaround Time (TAT) Request																				
2. <i>[Signature]</i>		3. <i>[Signature]</i>		PROJECT #: 200				<input type="checkbox"/> Standard		<input type="checkbox"/> 2 Business Day Rush																				
3.				SITE ADDRESS:				<input type="checkbox"/> Next Business Day Rush		<input type="checkbox"/> Same-Day Rush (auth req.)																				
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO:				<input type="checkbox"/> Other		STATE PROGRAM (if any):																				
		OUT: / / VIA:		INVOICE TO (IF DIFFERENT FROM ABOVE):				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																				
		IN: / / VIA:		QUOTE #:				PO#:																						
		client FedEx UPS US mail <u>courier</u>																												
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																														

Client: Atlantic Coast Consulting, Inc.
Project: Forsyth CO.- Hightower Rd
Lab ID: 1912A56

Case Narrative

Sample Receiving Nonconformance:

Vial 2 of 2 for samples 1912A56-003A and 1912A56-037A were received with headspace present as signified by >1/4 inch bubble present. Laboratory proceeded with the analysis on the remaining vial.

Sample AMW-1, was listed on the chain of custody but not present.

Sample GWC-15, was present but not listed on the chain of custody.

Per Owens Faquea via email on 12/11/2019, sample AMW-1 is a surrogate well for GWC-15. The GWC-15 bottle set is the sample for AMW-1.

Ion Scan Analysis by Method 9056A:

Sample 1912598-005BMS was extracted and/or analyzed outside holding time of 48 hours.

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-1A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 11:00:00 AM
Lab ID: 1912A56-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 03:22	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 03:22	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 03:22	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 03:22	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 03:22	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 03:22	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 03:22	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 03:22	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 03:22	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 03:22	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-1A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 11:00:00 AM
Lab ID: 1912A56-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 03:22	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 03:22	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 03:22	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 03:22	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 03:22	JE
Surr: 4-Bromofluorobenzene	100	64-125		%REC	289393	1	12/12/2019 03:22	JE
Surr: Dibromofluoromethane	99.9	76.4-125		%REC	289393	1	12/12/2019 03:22	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 03:22	JE
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 11:59	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 11:59	DK
Barium	0.0300	0.0200		mg/L	289336	1	12/16/2019 11:59	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 11:59	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 11:59	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 11:59	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 11:59	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 11:59	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 11:59	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 11:59	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 11:59	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 11:59	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 11:59	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 11:59	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 11:59	DK

Qualifiers:

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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 11:30:00 AM
Lab ID: 1912A56-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 03:46	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 03:46	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 03:46	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 03:46	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 03:46	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 03:46	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 03:46	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 03:46	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 03:46	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 03:46	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE

Qualifiers:

- * Value exceeds maximum contaminant level
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 11:30:00 AM
Lab ID: 1912A56-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 03:46	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 03:46	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 03:46	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 03:46	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 03:46	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	289393	1	12/12/2019 03:46	JE
Surr: Dibromofluoromethane	107	76.4-125		%REC	289393	1	12/12/2019 03:46	JE
Surr: Toluene-d8	101	78.3-116		%REC	289393	1	12/12/2019 03:46	JE

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-4
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:25:00 PM
Lab ID: 1912A56-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	BRL	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	2.1	0.50		mg/L	R413877	1	12/10/2019 22:14	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/10/2019 22:14	AS
Sulfate	BRL	1.0		mg/L	R413877	1	12/10/2019 22:14	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 04:11	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 04:11	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 04:11	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 04:11	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 04:11	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 04:11	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 04:11	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 04:11	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-4
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:25:00 PM
Lab ID: 1912A56-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 04:11	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 04:11	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 04:11	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 04:11	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 04:11	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 04:11	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 04:11	JE
Surr: 4-Bromofluorobenzene	99.4	64-125		%REC	289393	1	12/12/2019 04:11	JE
Surr: Dibromofluoromethane	112	76.4-125		%REC	289393	1	12/12/2019 04:11	JE
Surr: Toluene-d8	103	78.3-116		%REC	289393	1	12/12/2019 04:11	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	7.04	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:45:00 PM
Lab ID: 1912A56-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	28	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	2.8	0.50		mg/L	R413877	1	12/11/2019 05:28	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/11/2019 05:28	AS
Sulfate	BRL	1.0		mg/L	R413877	1	12/11/2019 05:28	AS
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)								
beta-BHC	BRL	0.050		ug/L	289373	1	12/13/2019 14:22	UH
Surr: Decachlorobiphenyl	40.1	20.6-134		%REC	289373	1	12/13/2019 14:22	UH
Surr: Tetrachloro-m-xylene	66.3	37-128		%REC	289373	1	12/13/2019 14:22	UH
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 04:35	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 04:35	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 04:35	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 04:35	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 04:35	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 04:35	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 04:35	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 04:35	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:45:00 PM
Lab ID: 1912A56-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
cis-1,2-Dichloroethene	3.7	2.0		ug/L	289393	1	12/12/2019 04:35	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 04:35	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 04:35	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 04:35	JE
Trichloroethene	3.1	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 04:35	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 04:35	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 04:35	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 04:35	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	289393	1	12/12/2019 04:35	JE
Surr: Dibromofluoromethane	107	76.4-125		%REC	289393	1	12/12/2019 04:35	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 04:35	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	27.6	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:15:00 PM
Lab ID: 1912A56-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Sulfide by SW9030B/9034		(SW9030B)						
Sulfide	BRL	2.00		mg/L	289386	1	12/11/2019 11:20	AT
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	61	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	4.7	0.50		mg/L	R413877	1	12/10/2019 22:31	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/10/2019 22:31	AS
Sulfate	BRL	1.0		mg/L	R413877	1	12/10/2019 22:31	AS
Cyanide SW9014		(SW9010C)						
Cyanide, Total	BRL	0.010		mg/L	289389	1	12/16/2019 11:20	KV
APPENDIX I VOLATILE ORGANICS SW8260D		(SW5030B)						
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 04:59	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 04:59	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 04:59	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 04:59	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 04:59	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 04:59	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 04:59	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 04:59	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:15:00 PM
Lab ID: 1912A56-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
cis-1,2-Dichloroethene	120	2.0		ug/L	289393	1	12/12/2019 04:59	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 04:59	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 04:59	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Tetrachloroethene	2.4	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 04:59	JE
Trichloroethene	7.3	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 04:59	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 04:59	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 04:59	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 04:59	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	289393	1	12/12/2019 04:59	JE
Surr: Dibromofluoromethane	110	76.4-125		%REC	289393	1	12/12/2019 04:59	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 04:59	JE

Alkalinity by SM2320B

Alkalinity, Total (As CaCO3)	46.2	3.00		mg/L	R413749	1	12/11/2019 15:14	SB
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Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-19R
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:45:00 PM
Lab ID: 1912A56-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	63	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	2.0	0.50		mg/L	R413877	1	12/10/2019 22:47	AS
Nitrate	0.30	0.25		mg/L	R413877	1	12/10/2019 22:47	AS
Sulfate	1.6	1.0		mg/L	R413877	1	12/10/2019 22:47	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 05:24	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 05:24	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 05:24	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 05:24	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 05:24	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 05:24	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 05:24	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 05:24	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
cis-1,2-Dichloroethene	11	2.0		ug/L	289393	1	12/12/2019 05:24	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-19R
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:45:00 PM
Lab ID: 1912A56-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 05:24	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 05:24	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 05:24	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 05:24	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 05:24	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 05:24	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 05:24	JE
Surr: 4-Bromofluorobenzene	102	64-125		%REC	289393	1	12/12/2019 05:24	JE
Surr: Dibromofluoromethane	113	76.4-125		%REC	289393	1	12/12/2019 05:24	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 05:24	JE

Alkalinity by SM2320B

Alkalinity, Total (As CaCO3)	44.0	3.00		mg/L	R413749	1	12/11/2019 15:14	SB
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Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:20:00 AM
Lab ID: 1912A56-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:17	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:17	DK
Barium	0.0209	0.0200		mg/L	289336	1	12/16/2019 12:17	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:17	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:17	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:17	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 12:17	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 12:17	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:17	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:17	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:17	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:17	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:17	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:17	DK
Zinc	0.0304	0.0200		mg/L	289336	1	12/16/2019 12:17	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:25:00 AM
Lab ID: 1912A56-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:21	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:21	DK
Barium	0.0842	0.0200		mg/L	289336	1	12/16/2019 12:21	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:21	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:21	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:21	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 12:21	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 12:21	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:21	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:21	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:21	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:21	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:21	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:21	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 12:21	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-4
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:35:00 AM
Lab ID: 1912A56-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:25	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:25	DK
Barium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:25	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:25	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:25	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:25	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 12:25	DK
Copper	0.0207	0.0200		mg/L	289336	1	12/16/2019 12:25	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:25	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:25	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:25	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:25	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:25	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:25	DK
Zinc	0.0489	0.0200		mg/L	289336	1	12/16/2019 12:25	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-19R
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:45:00 AM
Lab ID: 1912A56-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:43	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:43	DK
Barium	0.0892	0.0200		mg/L	289336	1	12/16/2019 12:43	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:43	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:43	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:43	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 12:43	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 12:43	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:43	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:43	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:43	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:43	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:43	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:43	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 12:43	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 10:50:00 AM
Lab ID: 1912A56-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	289386	1	12/11/2019 11:20	AT
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	95	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	2.9	0.50		mg/L	R413879	1	12/11/2019 13:19	AS
Nitrate	BRL	0.25		mg/L	R413879	1	12/11/2019 13:19	AS
Sulfate	2.2	1.0		mg/L	R413879	1	12/11/2019 13:19	AS
Cyanide SW9014				(SW9010C)				
Cyanide, Total	BRL	0.010		mg/L	289389	1	12/16/2019 11:30	KV
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,1-Dichloroethane	3.7	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 05:48	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 05:48	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 05:48	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 05:48	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 05:48	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 05:48	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 05:48	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 05:48	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 10:50:00 AM
Lab ID: 1912A56-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
cis-1,2-Dichloroethene	5.7	2.0		ug/L	289393	1	12/12/2019 05:48	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 05:48	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 05:48	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Tetrachloroethene	6.3	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 05:48	JE
Trichloroethene	2.6	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 05:48	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 05:48	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 05:48	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 05:48	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	289393	1	12/12/2019 05:48	JE
Surr: Dibromofluoromethane	101	76.4-125		%REC	289393	1	12/12/2019 05:48	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 05:48	JE

APPENDIX I METALS SW6020B (SW3005A)								
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:46	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:46	DK
Barium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:46	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:46	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:46	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:46	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 12:46	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 12:46	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:46	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:46	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:46	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:46	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:46	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:46	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 12:46	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 10:50:00 AM
Lab ID: 1912A56-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	62.2	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 11:00:00 AM
Lab ID: 1912A56-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:50	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:50	DK
Barium	0.0203	0.0200		mg/L	289336	1	12/16/2019 12:50	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:50	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:50	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:50	DK
Cobalt	0.0901	0.0400		mg/L	289336	1	12/16/2019 12:50	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 12:50	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:50	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:50	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:50	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:50	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:50	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:50	DK
Zinc	0.0324	0.0200		mg/L	289336	1	12/16/2019 12:50	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-1A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 11:50:00 AM
Lab ID: 1912A56-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 06:12	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 06:12	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 06:12	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 06:12	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 06:12	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 06:12	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 06:12	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 06:12	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 06:12	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 06:12	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-1A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 11:50:00 AM
Lab ID: 1912A56-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 06:12	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 06:12	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 06:12	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 06:12	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 06:12	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	289393	1	12/12/2019 06:12	JE
Surr: Dibromofluoromethane	108	76.4-125		%REC	289393	1	12/12/2019 06:12	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 06:12	JE
APPENDIX I METALS SW6020B			(SW3005A)					
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:53	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:53	DK
Barium	0.0234	0.0200		mg/L	289336	1	12/16/2019 12:53	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:53	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:53	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:53	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 12:53	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 12:53	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:53	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:53	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:53	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:53	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:53	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:53	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 12:53	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-1/GWC-15
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 1:00:00 PM
Lab ID: 1912A56-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	107	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	1.9	0.50		mg/L	R413877	1	12/11/2019 01:11	AS
Nitrate	0.70	0.25		mg/L	R413877	1	12/11/2019 01:11	AS
Sulfate	3.7	1.0		mg/L	R413877	1	12/11/2019 01:11	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,1-Dichloroethane	23	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289566	1	12/13/2019 20:47	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289566	1	12/13/2019 20:47	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
2-Butanone	BRL	100		ug/L	289566	1	12/13/2019 20:47	NP
2-Hexanone	BRL	50		ug/L	289566	1	12/13/2019 20:47	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289566	1	12/13/2019 20:47	NP
Acetone	BRL	100		ug/L	289566	1	12/13/2019 20:47	NP
Acrylonitrile	BRL	50		ug/L	289566	1	12/13/2019 20:47	NP
Benzene	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Bromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Bromodichloromethane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Bromoform	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Bromomethane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Carbon disulfide	BRL	5.0		ug/L	289566	1	12/13/2019 20:47	NP
Carbon tetrachloride	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Chlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Chloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Chloroform	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Chloromethane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
cis-1,2-Dichloroethene	51	2.0		ug/L	289566	1	12/13/2019 20:47	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Dibromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Dibromomethane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Lab ID: 1912A56-014

Client Sample ID: AMW-1/GWC-15
Collection Date: 12/10/2019 1:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
Ethylbenzene	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Iodomethane	BRL	100		ug/L	289566	1	12/13/2019 20:47	NP
Methylene chloride	BRL	5.0		ug/L	289566	1	12/13/2019 20:47	NP
Styrene	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Tetrachloroethene	31	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Toluene	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289566	1	12/13/2019 20:47	NP
Trichloroethene	55	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Trichlorofluoromethane	BRL	10		ug/L	289566	1	12/13/2019 20:47	NP
Vinyl acetate	BRL	100		ug/L	289566	1	12/13/2019 20:47	NP
Vinyl chloride	BRL	2.0		ug/L	289566	1	12/13/2019 20:47	NP
Xylenes, Total	BRL	5.0		ug/L	289566	1	12/13/2019 20:47	NP
Surr: 4-Bromofluorobenzene	99.3	64-125		%REC	289566	1	12/13/2019 20:47	NP
Surr: Dibromofluoromethane	109	76.4-125		%REC	289566	1	12/13/2019 20:47	NP
Surr: Toluene-d8	100	78.3-116		%REC	289566	1	12/13/2019 20:47	NP
APPENDIX I METALS SW6020B			(SW3005A)					
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 12:57	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 12:57	DK
Barium	0.0423	0.0200		mg/L	289336	1	12/16/2019 12:57	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 12:57	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 12:57	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:57	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 12:57	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 12:57	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 12:57	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 12:57	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 12:57	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 12:57	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 12:57	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 12:57	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 12:57	DK
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	68.1	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-12
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 10:30:00 AM
Lab ID: 1912A56-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 06:37	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 06:37	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 06:37	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 06:37	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 06:37	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 06:37	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 06:37	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 06:37	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 06:37	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 06:37	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-12
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 10:30:00 AM
Lab ID: 1912A56-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 06:37	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 06:37	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 06:37	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 06:37	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 06:37	JE
Surr: 4-Bromofluorobenzene	102	64-125		%REC	289393	1	12/12/2019 06:37	JE
Surr: Dibromofluoromethane	111	76.4-125		%REC	289393	1	12/12/2019 06:37	JE
Surr: Toluene-d8	103	78.3-116		%REC	289393	1	12/12/2019 06:37	JE

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-12A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 10:50:00 AM
Lab ID: 1912A56-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 07:01	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 07:01	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 07:01	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 07:01	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 07:01	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 07:01	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 07:01	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 07:01	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 07:01	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 07:01	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-12A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 10:50:00 AM
Lab ID: 1912A56-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 07:01	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 07:01	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 07:01	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 07:01	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 07:01	JE
Surr: 4-Bromofluorobenzene	99.8	64-125		%REC	289393	1	12/12/2019 07:01	JE
Surr: Dibromofluoromethane	102	76.4-125		%REC	289393	1	12/12/2019 07:01	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 07:01	JE

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-14
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 11:20:00 AM
Lab ID: 1912A56-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	65	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	4.3	0.50		mg/L	R413877	1	12/11/2019 04:56	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/11/2019 04:56	AS
Sulfate	2.8	1.0		mg/L	R413877	1	12/11/2019 04:56	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 07:26	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 07:26	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 07:26	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 07:26	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 07:26	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 07:26	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 07:26	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 07:26	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
cis-1,2-Dichloroethene	2.7	2.0		ug/L	289393	1	12/12/2019 07:26	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-14
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 11:20:00 AM
Lab ID: 1912A56-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 07:26	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 07:26	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 07:26	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 07:26	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 07:26	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 07:26	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 07:26	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	289393	1	12/12/2019 07:26	JE
Surr: Dibromofluoromethane	113	76.4-125		%REC	289393	1	12/12/2019 07:26	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 07:26	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	31.5	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-18
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:00:00 PM
Lab ID: 1912A56-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	289386	1	12/11/2019 11:20	AT
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	41	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	5.1	0.50		mg/L	R413877	1	12/11/2019 05:12	AS
Nitrate	1.2	0.25		mg/L	R413877	1	12/11/2019 05:12	AS
Sulfate	BRL	1.0		mg/L	R413877	1	12/11/2019 05:12	AS
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 07:50	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 07:50	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 07:50	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 07:50	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 07:50	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 07:50	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 07:50	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 07:50	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
cis-1,2-Dichloroethene	30	2.0		ug/L	289393	1	12/12/2019 07:50	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-18
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:00:00 PM
Lab ID: 1912A56-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 07:50	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 07:50	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Tetrachloroethene	7.4	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 07:50	JE
Trichloroethene	2.6	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 07:50	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 07:50	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 07:50	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 07:50	JE
Surr: 4-Bromofluorobenzene	102	64-125		%REC	289393	1	12/12/2019 07:50	JE
Surr: Dibromofluoromethane	111	76.4-125		%REC	289393	1	12/12/2019 07:50	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 07:50	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	25.5	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-5
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:35:00 PM
Lab ID: 1912A56-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	60	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	4.1	0.50		mg/L	R413877	1	12/11/2019 00:55	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/11/2019 00:55	AS
Sulfate	3.3	1.0		mg/L	R413877	1	12/11/2019 00:55	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 08:14	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 08:14	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 08:14	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 08:14	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 08:14	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 08:14	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 08:14	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 08:14	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-5
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 12:35:00 PM
Lab ID: 1912A56-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 08:14	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 08:14	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 08:14	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 08:14	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 08:14	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 08:14	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 08:14	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	289393	1	12/12/2019 08:14	JE
Surr: Dibromofluoromethane	102	76.4-125		%REC	289393	1	12/12/2019 08:14	JE
Surr: Toluene-d8	103	78.3-116		%REC	289393	1	12/12/2019 08:14	JE

Alkalinity by SM2320B

Alkalinity, Total (As CaCO3)	31.9	3.00		mg/L	R413749	1	12/11/2019 15:14	SB
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Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-4
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:05:00 PM
Lab ID: 1912A56-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	60	10		mg/L	289331	1	12/12/2019 11:30	NN
ION SCAN SW9056A								
Chloride	3.5	0.50		mg/L	R413877	1	12/10/2019 23:03	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/10/2019 23:03	AS
Sulfate	BRL	1.0		mg/L	R413877	1	12/10/2019 23:03	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,1-Dichloroethane	2.9	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 08:39	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 08:39	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 08:39	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 08:39	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 08:39	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 08:39	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 08:39	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 08:39	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
cis-1,2-Dichloroethene	18	2.0		ug/L	289393	1	12/12/2019 08:39	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-4
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:05:00 PM
Lab ID: 1912A56-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 08:39	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 08:39	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Tetrachloroethene	6.4	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 08:39	JE
Trichloroethene	3.6	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 08:39	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 08:39	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 08:39	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 08:39	JE
Surr: 4-Bromofluorobenzene	100	64-125		%REC	289393	1	12/12/2019 08:39	JE
Surr: Dibromofluoromethane	101	76.4-125		%REC	289393	1	12/12/2019 08:39	JE
Surr: Toluene-d8	103	78.3-116		%REC	289393	1	12/12/2019 08:39	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	41.2	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-24
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:40:00 PM
Lab ID: 1912A56-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Sulfide by SW9030B/9034		(SW9030B)						
Sulfide	BRL	2.00		mg/L	289386	1	12/11/2019 11:20	AT
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	53	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	2.1	0.50		mg/L	R413877	1	12/10/2019 23:19	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/10/2019 23:19	AS
Sulfate	1.6	1.0		mg/L	R413877	1	12/10/2019 23:19	AS
APPENDIX I VOLATILE ORGANICS SW8260D		(SW5030B)						
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 09:03	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 09:03	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 09:03	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 09:03	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 09:03	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 09:03	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 09:03	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 09:03	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
cis-1,2-Dichloroethene	6.1	2.0		ug/L	289393	1	12/12/2019 09:03	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-24
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 1:40:00 PM
Lab ID: 1912A56-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 09:03	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 09:03	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 09:03	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 09:03	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 09:03	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 09:03	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 09:03	JE
Surr: 4-Bromofluorobenzene	100	64-125		%REC	289393	1	12/12/2019 09:03	JE
Surr: Dibromofluoromethane	111	76.4-125		%REC	289393	1	12/12/2019 09:03	JE
Surr: Toluene-d8	101	78.3-116		%REC	289393	1	12/12/2019 09:03	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	33.4	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-3A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 2:25:00 PM
Lab ID: 1912A56-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	112	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	1.9	0.50		mg/L	R413877	1	12/10/2019 23:35	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/10/2019 23:35	AS
Sulfate	BRL	1.0		mg/L	R413877	1	12/10/2019 23:35	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,1-Dichloroethane	3.1	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 09:27	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 09:27	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 09:27	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 09:27	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 09:27	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 09:27	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 09:27	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 09:27	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
cis-1,2-Dichloroethene	16	2.0		ug/L	289393	1	12/12/2019 09:27	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-3A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 2:25:00 PM
Lab ID: 1912A56-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 09:27	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 09:27	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Tetrachloroethene	7.4	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 09:27	JE
Trichloroethene	8.4	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 09:27	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 09:27	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 09:27	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 09:27	JE
Surr: 4-Bromofluorobenzene	103	64-125		%REC	289393	1	12/12/2019 09:27	JE
Surr: Dibromofluoromethane	110	76.4-125		%REC	289393	1	12/12/2019 09:27	JE
Surr: Toluene-d8	102	78.3-116		%REC	289393	1	12/12/2019 09:27	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	77.6	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-3
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 2:20:00 PM
Lab ID: 1912A56-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	289386	1	12/11/2019 11:20	AT
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	101	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	4.0	0.50		mg/L	R413877	1	12/10/2019 23:51	AS
Nitrate	BRL	0.25		mg/L	R413877	1	12/10/2019 23:51	AS
Sulfate	3.0	1.0		mg/L	R413877	1	12/10/2019 23:51	AS
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,1-Dichloroethane	4.0	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 11:38	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 11:38	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 11:38	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 11:38	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 11:38	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 11:38	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 11:38	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 11:38	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
cis-1,2-Dichloroethene	27	2.0		ug/L	289393	1	12/12/2019 11:38	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-3
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/9/2019 2:20:00 PM
Lab ID: 1912A56-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 11:38	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 11:38	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Tetrachloroethene	13	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 11:38	JE
Trichloroethene	8.7	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 11:38	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 11:38	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 11:38	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 11:38	JE
Surr: 4-Bromofluorobenzene	98.8	64-125		%REC	289393	1	12/12/2019 11:38	JE
Surr: Dibromofluoromethane	106	76.4-125		%REC	289393	1	12/12/2019 11:38	JE
Surr: Toluene-d8	97.6	78.3-116		%REC	289393	1	12/12/2019 11:38	JE
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	60.0	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-12
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:30:00 AM
Lab ID: 1912A56-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 13:00	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 13:00	DK
Barium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:00	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 13:00	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 13:00	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:00	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 13:00	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 13:00	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 13:00	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 13:00	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:00	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 13:00	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 13:00	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:00	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 13:00	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-12A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:35:00 AM
Lab ID: 1912A56-025	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 13:04	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 13:04	DK
Barium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:04	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 13:04	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 13:04	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:04	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 13:04	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 13:04	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 13:04	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 13:04	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:04	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 13:04	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 13:04	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:04	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 13:04	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-24
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:45:00 AM
Lab ID: 1912A56-026	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 13:08	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 13:08	DK
Barium	0.0274	0.0200		mg/L	289336	1	12/16/2019 13:08	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 13:08	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 13:08	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:08	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 13:08	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 13:08	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 13:08	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 13:08	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:08	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 13:08	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 13:08	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:08	DK
Zinc	0.0240	0.0200		mg/L	289336	1	12/16/2019 13:08	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-18
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 9:55:00 AM
Lab ID: 1912A56-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 13:11	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 13:11	DK
Barium	0.181	0.0200		mg/L	289336	1	12/16/2019 13:11	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 13:11	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 13:11	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:11	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 13:11	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 13:11	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 13:11	DK
Nickel	0.0298	0.0200		mg/L	289336	1	12/16/2019 13:11	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:11	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 13:11	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 13:11	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:11	DK
Zinc	0.0387	0.0200		mg/L	289336	1	12/16/2019 13:11	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-3A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 10:10:00 AM
Lab ID: 1912A56-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 13:15	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 13:15	DK
Barium	0.0249	0.0200		mg/L	289336	1	12/16/2019 13:15	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 13:15	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 13:15	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:15	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 13:15	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 13:15	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 13:15	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 13:15	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:15	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 13:15	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 13:15	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:15	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 13:15	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-3
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 10:15:00 AM
Lab ID: 1912A56-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 13:33	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 13:33	DK
Barium	0.0247	0.0200		mg/L	289336	1	12/16/2019 13:33	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 13:33	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 13:33	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:33	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 13:33	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 13:33	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 13:33	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 13:33	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:33	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 13:33	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 13:33	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:33	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 13:33	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 11:05:00 AM
Lab ID: 1912A56-030	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 12:02	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 12:02	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 12:02	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 12:02	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 12:02	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 12:02	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 12:02	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 12:02	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 12:02	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 12:02	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-2
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 11:05:00 AM
Lab ID: 1912A56-030	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 12:02	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 12:02	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 12:02	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 12:02	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 12:02	JE
Surr: 4-Bromofluorobenzene	98.5	64-125		%REC	289393	1	12/12/2019 12:02	JE
Surr: Dibromofluoromethane	102	76.4-125		%REC	289393	1	12/12/2019 12:02	JE
Surr: Toluene-d8	98.3	78.3-116		%REC	289393	1	12/12/2019 12:02	JE

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-3
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 11:30:00 AM
Lab ID: 1912A56-031	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 10:50	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 10:50	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 10:50	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 10:50	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 10:50	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 10:50	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 10:50	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 10:50	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 10:50	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 10:50	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-3
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 11:30:00 AM
Lab ID: 1912A56-031	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 10:50	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 10:50	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 10:50	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 10:50	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 10:50	JE
Surr: 4-Bromofluorobenzene	97.7	64-125		%REC	289393	1	12/12/2019 10:50	JE
Surr: Dibromofluoromethane	110	76.4-125		%REC	289393	1	12/12/2019 10:50	JE
Surr: Toluene-d8	99.8	78.3-116		%REC	289393	1	12/12/2019 10:50	JE

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-3A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 12:05:00 PM
Lab ID: 1912A56-032	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,1-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,1-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,2,3-Trichloropropane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289393	1	12/12/2019 11:14	JE
1,2-Dibromoethane	BRL	1.0		ug/L	289393	1	12/12/2019 11:14	JE
1,2-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
1,2-Dichloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,2-Dichloropropane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
1,4-Dichlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
2-Butanone	BRL	100		ug/L	289393	1	12/12/2019 11:14	JE
2-Hexanone	BRL	50		ug/L	289393	1	12/12/2019 11:14	JE
4-Methyl-2-pentanone	BRL	50		ug/L	289393	1	12/12/2019 11:14	JE
Acetone	BRL	100		ug/L	289393	1	12/12/2019 11:14	JE
Acrylonitrile	BRL	50		ug/L	289393	1	12/12/2019 11:14	JE
Benzene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Bromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Bromodichloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Bromoform	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Bromomethane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Carbon disulfide	BRL	5.0		ug/L	289393	1	12/12/2019 11:14	JE
Carbon tetrachloride	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Chlorobenzene	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Chloroethane	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Chloroform	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Chloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Dibromochloromethane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Dibromomethane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Ethylbenzene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Iodomethane	BRL	100		ug/L	289393	1	12/12/2019 11:14	JE
Methylene chloride	BRL	5.0		ug/L	289393	1	12/12/2019 11:14	JE
Styrene	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Tetrachloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Toluene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-3A
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 12:05:00 PM
Lab ID: 1912A56-032	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289393	1	12/12/2019 11:14	JE
Trichloroethene	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Trichlorofluoromethane	BRL	10		ug/L	289393	1	12/12/2019 11:14	JE
Vinyl acetate	BRL	100		ug/L	289393	1	12/12/2019 11:14	JE
Vinyl chloride	BRL	2.0		ug/L	289393	1	12/12/2019 11:14	JE
Xylenes, Total	BRL	5.0		ug/L	289393	1	12/12/2019 11:14	JE
Surr: 4-Bromofluorobenzene	99.2	64-125		%REC	289393	1	12/12/2019 11:14	JE
Surr: Dibromofluoromethane	111	76.4-125		%REC	289393	1	12/12/2019 11:14	JE
Surr: Toluene-d8	98.8	78.3-116		%REC	289393	1	12/12/2019 11:14	JE

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-17
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 12:35:00 PM
Lab ID: 1912A56-033	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	51	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	2.4	0.50		mg/L	R413879	1	12/11/2019 13:35	AS
Nitrate	1.3	0.25		mg/L	R413879	1	12/11/2019 13:35	AS
Sulfate	1.2	1.0		mg/L	R413879	1	12/11/2019 13:35	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289566	1	12/13/2019 21:10	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289566	1	12/13/2019 21:10	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
2-Butanone	BRL	100		ug/L	289566	1	12/13/2019 21:10	NP
2-Hexanone	BRL	50		ug/L	289566	1	12/13/2019 21:10	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289566	1	12/13/2019 21:10	NP
Acetone	BRL	100		ug/L	289566	1	12/13/2019 21:10	NP
Acrylonitrile	BRL	50		ug/L	289566	1	12/13/2019 21:10	NP
Benzene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Bromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Bromodichloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Bromoform	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Bromomethane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Carbon disulfide	BRL	5.0		ug/L	289566	1	12/13/2019 21:10	NP
Carbon tetrachloride	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Chlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Chloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Chloroform	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Chloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
cis-1,2-Dichloroethene	15	2.0		ug/L	289566	1	12/13/2019 21:10	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Dibromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Dibromomethane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-17
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 12:35:00 PM
Lab ID: 1912A56-033	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Ethylbenzene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Iodomethane	BRL	100		ug/L	289566	1	12/13/2019 21:10	NP
Methylene chloride	BRL	5.0		ug/L	289566	1	12/13/2019 21:10	NP
Styrene	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Tetrachloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Toluene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289566	1	12/13/2019 21:10	NP
Trichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Trichlorofluoromethane	BRL	10		ug/L	289566	1	12/13/2019 21:10	NP
Vinyl acetate	BRL	100		ug/L	289566	1	12/13/2019 21:10	NP
Vinyl chloride	BRL	2.0		ug/L	289566	1	12/13/2019 21:10	NP
Xylenes, Total	BRL	5.0		ug/L	289566	1	12/13/2019 21:10	NP
Surr: 4-Bromofluorobenzene	103	64-125		%REC	289566	1	12/13/2019 21:10	NP
Surr: Dibromofluoromethane	103	76.4-125		%REC	289566	1	12/13/2019 21:10	NP
Surr: Toluene-d8	102	78.3-116		%REC	289566	1	12/13/2019 21:10	NP
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	35.8	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-5
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 1:15:00 PM
Lab ID: 1912A56-034	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289566	1	12/13/2019 21:33	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289566	1	12/13/2019 21:33	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
2-Butanone	BRL	100		ug/L	289566	1	12/13/2019 21:33	NP
2-Hexanone	BRL	50		ug/L	289566	1	12/13/2019 21:33	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289566	1	12/13/2019 21:33	NP
Acetone	BRL	100		ug/L	289566	1	12/13/2019 21:33	NP
Acrylonitrile	BRL	50		ug/L	289566	1	12/13/2019 21:33	NP
Benzene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Bromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Bromodichloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Bromoform	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Bromomethane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Carbon disulfide	BRL	5.0		ug/L	289566	1	12/13/2019 21:33	NP
Carbon tetrachloride	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Chlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Chloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Chloroform	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Chloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Dibromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Dibromomethane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Ethylbenzene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Iodomethane	BRL	100		ug/L	289566	1	12/13/2019 21:33	NP
Methylene chloride	BRL	5.0		ug/L	289566	1	12/13/2019 21:33	NP
Styrene	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Tetrachloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Toluene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-5
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 1:15:00 PM
Lab ID: 1912A56-034	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289566	1	12/13/2019 21:33	NP
Trichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Trichlorofluoromethane	BRL	10		ug/L	289566	1	12/13/2019 21:33	NP
Vinyl acetate	BRL	100		ug/L	289566	1	12/13/2019 21:33	NP
Vinyl chloride	BRL	2.0		ug/L	289566	1	12/13/2019 21:33	NP
Xylenes, Total	BRL	5.0		ug/L	289566	1	12/13/2019 21:33	NP
Surr: 4-Bromofluorobenzene	103	64-125		%REC	289566	1	12/13/2019 21:33	NP
Surr: Dibromofluoromethane	107	76.4-125		%REC	289566	1	12/13/2019 21:33	NP
Surr: Toluene-d8	104	78.3-116		%REC	289566	1	12/13/2019 21:33	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019
Lab ID: 1912A56-035	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289566	1	12/13/2019 16:56	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289566	1	12/13/2019 16:56	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
2-Butanone	BRL	100		ug/L	289566	1	12/13/2019 16:56	NP
2-Hexanone	BRL	50		ug/L	289566	1	12/13/2019 16:56	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289566	1	12/13/2019 16:56	NP
Acetone	BRL	100		ug/L	289566	1	12/13/2019 16:56	NP
Acrylonitrile	BRL	50		ug/L	289566	1	12/13/2019 16:56	NP
Benzene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Bromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Bromodichloromethane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Bromoform	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Bromomethane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Carbon disulfide	BRL	5.0		ug/L	289566	1	12/13/2019 16:56	NP
Carbon tetrachloride	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Chlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Chloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Chloroform	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Chloromethane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Dibromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Dibromomethane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Ethylbenzene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Iodomethane	BRL	100		ug/L	289566	1	12/13/2019 16:56	NP
Methylene chloride	BRL	5.0		ug/L	289566	1	12/13/2019 16:56	NP
Styrene	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Tetrachloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Toluene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019
Lab ID: 1912A56-035	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289566	1	12/13/2019 16:56	NP
Trichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Trichlorofluoromethane	BRL	10		ug/L	289566	1	12/13/2019 16:56	NP
Vinyl acetate	BRL	100		ug/L	289566	1	12/13/2019 16:56	NP
Vinyl chloride	BRL	2.0		ug/L	289566	1	12/13/2019 16:56	NP
Xylenes, Total	BRL	5.0		ug/L	289566	1	12/13/2019 16:56	NP
Surr: 4-Bromofluorobenzene	100	64-125		%REC	289566	1	12/13/2019 16:56	NP
Surr: Dibromofluoromethane	108	76.4-125		%REC	289566	1	12/13/2019 16:56	NP
Surr: Toluene-d8	99.6	78.3-116		%REC	289566	1	12/13/2019 16:56	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: FIELD BLANK 1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 1:30:00 PM
Lab ID: 1912A56-036	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289566	1	12/13/2019 17:20	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289566	1	12/13/2019 17:20	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
2-Butanone	BRL	100		ug/L	289566	1	12/13/2019 17:20	NP
2-Hexanone	BRL	50		ug/L	289566	1	12/13/2019 17:20	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289566	1	12/13/2019 17:20	NP
Acetone	BRL	100		ug/L	289566	1	12/13/2019 17:20	NP
Acrylonitrile	BRL	50		ug/L	289566	1	12/13/2019 17:20	NP
Benzene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Bromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Bromodichloromethane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Bromoform	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Bromomethane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Carbon disulfide	BRL	5.0		ug/L	289566	1	12/13/2019 17:20	NP
Carbon tetrachloride	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Chlorobenzene	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Chloroethane	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Chloroform	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Chloromethane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Dibromochloromethane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Dibromomethane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Ethylbenzene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Iodomethane	BRL	100		ug/L	289566	1	12/13/2019 17:20	NP
Methylene chloride	BRL	5.0		ug/L	289566	1	12/13/2019 17:20	NP
Styrene	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Tetrachloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Toluene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: FIELD BLANK 1
Project Name: Forsyth CO.- Hightower Rd	Collection Date: 12/10/2019 1:30:00 PM
Lab ID: 1912A56-036	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289566	1	12/13/2019 17:20	NP
Trichloroethene	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Trichlorofluoromethane	BRL	10		ug/L	289566	1	12/13/2019 17:20	NP
Vinyl acetate	BRL	100		ug/L	289566	1	12/13/2019 17:20	NP
Vinyl chloride	BRL	2.0		ug/L	289566	1	12/13/2019 17:20	NP
Xylenes, Total	BRL	5.0		ug/L	289566	1	12/13/2019 17:20	NP
Surr: 4-Bromofluorobenzene	100	64-125		%REC	289566	1	12/13/2019 17:20	NP
Surr: Dibromofluoromethane	103	76.4-125		%REC	289566	1	12/13/2019 17:20	NP
Surr: Toluene-d8	98.1	78.3-116		%REC	289566	1	12/13/2019 17:20	NP
APPENDIX I METALS SW6020B				(SW3005A)				
Antimony	BRL	0.00600		mg/L	289336	1	12/16/2019 13:36	DK
Arsenic	BRL	0.0100		mg/L	289336	1	12/16/2019 13:36	DK
Barium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:36	DK
Beryllium	BRL	0.00300		mg/L	289336	1	12/16/2019 13:36	DK
Cadmium	BRL	0.00500		mg/L	289336	1	12/16/2019 13:36	DK
Chromium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:36	DK
Cobalt	BRL	0.0400		mg/L	289336	1	12/16/2019 13:36	DK
Copper	BRL	0.0200		mg/L	289336	1	12/16/2019 13:36	DK
Lead	BRL	0.0150		mg/L	289336	1	12/16/2019 13:36	DK
Nickel	BRL	0.0200		mg/L	289336	1	12/16/2019 13:36	DK
Selenium	BRL	0.0100		mg/L	289336	1	12/16/2019 13:36	DK
Silver	BRL	0.0100		mg/L	289336	1	12/16/2019 13:36	DK
Thallium	BRL	0.00200		mg/L	289336	1	12/16/2019 13:36	DK
Vanadium	BRL	0.0200		mg/L	289336	1	12/16/2019 13:36	DK
Zinc	BRL	0.0200		mg/L	289336	1	12/16/2019 13:36	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Atlantic Coast Consulting, Inc.

AES Work Order Number: 1912A56

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input checked="" type="checkbox"/>	

13. Cooler 1 Temperature 1.1 °C Cooler 2 Temperature 1.4 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 12/10/19

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input checked="" type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials). LM 12/10/19

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). LM 12/10/19

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth CO.- Hightower Rd
 Lab Order: 1912A56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1912A56-001A	GWA-1A	12/9/2019 11:00:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-001B	GWA-1A	12/9/2019 11:00:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-002A	GWA-1	12/9/2019 11:30:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-003A	PH1-GWA-4	12/9/2019 12:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-003B	PH1-GWA-4	12/9/2019 12:25:00PM	Groundwater	ION SCAN			12/10/2019
1912A56-003B	PH1-GWA-4	12/9/2019 12:25:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-003B	PH1-GWA-4	12/9/2019 12:25:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-004A	PH1-GWA-1	12/9/2019 12:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-004B	PH1-GWA-1	12/9/2019 12:45:00PM	Groundwater	ION SCAN			12/11/2019
1912A56-004B	PH1-GWA-1	12/9/2019 12:45:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-004B	PH1-GWA-1	12/9/2019 12:45:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-004C	PH1-GWA-1	12/9/2019 12:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		12/13/2019 9:00:00AM	12/13/2019
1912A56-004C	PH1-GWA-1	12/9/2019 12:45:00PM	Groundwater	TCL-SEMIVOLATILE ORGANICS		12/11/2019 11:00:00AM	12/11/2019
1912A56-005A	PH1-GWA-2	12/9/2019 1:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-005B	PH1-GWA-2	12/9/2019 1:15:00PM	Groundwater	ION SCAN			12/10/2019
1912A56-005B	PH1-GWA-2	12/9/2019 1:15:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-005B	PH1-GWA-2	12/9/2019 1:15:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-005C	PH1-GWA-2	12/9/2019 1:15:00PM	Groundwater	Sulfide by SW9030/9034		12/11/2019 11:20:00AM	12/11/2019
1912A56-005D	PH1-GWA-2	12/9/2019 1:15:00PM	Groundwater	Cyanide		12/12/2019 2:00:00PM	12/16/2019
1912A56-006A	GWC-19R	12/9/2019 1:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-006B	GWC-19R	12/9/2019 1:45:00PM	Groundwater	ION SCAN			12/10/2019
1912A56-006B	GWC-19R	12/9/2019 1:45:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-006B	GWC-19R	12/9/2019 1:45:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-007A	GWA-1	12/10/2019 9:20:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-008A	PH1-GWA-2	12/10/2019 9:25:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-009A	PH1-GWA-4	12/10/2019 9:35:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-010A	GWC-19R	12/10/2019 9:45:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-011A	PH1-GWC-2	12/10/2019 10:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-011B	PH1-GWC-2	12/10/2019 10:50:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth CO.- Hightower Rd
 Lab Order: 1912A56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1912A56-011C	PH1-GWC-2	12/10/2019 10:50:00AM	Groundwater	ION SCAN			12/11/2019
1912A56-011C	PH1-GWC-2	12/10/2019 10:50:00AM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-011C	PH1-GWC-2	12/10/2019 10:50:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-011D	PH1-GWC-2	12/10/2019 10:50:00AM	Groundwater	Sulfide by SW9030/9034		12/11/2019 11:20:00AM	12/11/2019
1912A56-011E	PH1-GWC-2	12/10/2019 10:50:00AM	Groundwater	Cyanide		12/12/2019 2:00:00PM	12/16/2019
1912A56-012A	PH1-GWA-1	12/10/2019 11:00:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-013A	PH1-GWA-1A	12/10/2019 11:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-013B	PH1-GWA-1A	12/10/2019 11:50:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-014A	AMW-1/GWC-15	12/10/2019 1:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 2:37:00PM	12/13/2019
1912A56-014B	AMW-1/GWC-15	12/10/2019 1:00:00PM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-014C	AMW-1/GWC-15	12/10/2019 1:00:00PM	Groundwater	ION SCAN			12/11/2019
1912A56-014C	AMW-1/GWC-15	12/10/2019 1:00:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-014C	AMW-1/GWC-15	12/10/2019 1:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-015A	GWC-12	12/9/2019 10:30:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-016A	GWC-12A	12/9/2019 10:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-017A	AMW-14	12/9/2019 11:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-017B	AMW-14	12/9/2019 11:20:00AM	Groundwater	ION SCAN			12/11/2019
1912A56-017B	AMW-14	12/9/2019 11:20:00AM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-017B	AMW-14	12/9/2019 11:20:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-018A	GWC-18	12/9/2019 12:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-018B	GWC-18	12/9/2019 12:00:00PM	Groundwater	ION SCAN			12/11/2019
1912A56-018B	GWC-18	12/9/2019 12:00:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-018B	GWC-18	12/9/2019 12:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-018C	GWC-18	12/9/2019 12:00:00PM	Groundwater	Sulfide by SW9030/9034		12/11/2019 11:20:00AM	12/11/2019
1912A56-019A	AMW-5	12/9/2019 12:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-019B	AMW-5	12/9/2019 12:35:00PM	Groundwater	ION SCAN			12/11/2019
1912A56-019B	AMW-5	12/9/2019 12:35:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-019B	AMW-5	12/9/2019 12:35:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-020A	AMW-4	12/9/2019 1:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth CO.- Hightower Rd
 Lab Order: 1912A56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1912A56-020B	AMW-4	12/9/2019 1:05:00PM	Groundwater	ION SCAN			12/10/2019
1912A56-020B	AMW-4	12/9/2019 1:05:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-020B	AMW-4	12/9/2019 1:05:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/12/2019 9:00:00AM	12/12/2019
1912A56-021A	GWC-24	12/9/2019 1:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-021B	GWC-24	12/9/2019 1:40:00PM	Groundwater	ION SCAN			12/10/2019
1912A56-021B	GWC-24	12/9/2019 1:40:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-021B	GWC-24	12/9/2019 1:40:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912A56-021C	GWC-24	12/9/2019 1:40:00PM	Groundwater	Sulfide by SW9030/9034		12/11/2019 11:20:00AM	12/11/2019
1912A56-022A	PH1-GWC-3A	12/9/2019 2:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-022B	PH1-GWC-3A	12/9/2019 2:25:00PM	Groundwater	ION SCAN			12/10/2019
1912A56-022B	PH1-GWC-3A	12/9/2019 2:25:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-022B	PH1-GWC-3A	12/9/2019 2:25:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912A56-023A	PH1-GWC-3	12/9/2019 2:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-023B	PH1-GWC-3	12/9/2019 2:20:00PM	Groundwater	ION SCAN			12/10/2019
1912A56-023B	PH1-GWC-3	12/9/2019 2:20:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912A56-023B	PH1-GWC-3	12/9/2019 2:20:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912A56-023C	PH1-GWC-3	12/9/2019 2:20:00PM	Groundwater	Sulfide by SW9030/9034		12/11/2019 11:20:00AM	12/11/2019
1912A56-024A	GWC-12	12/10/2019 9:30:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-025A	GWC-12A	12/10/2019 9:35:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-026A	GWC-24	12/10/2019 9:45:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-027A	GWC-18	12/10/2019 9:55:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-028A	PH1-GWC-3A	12/10/2019 10:10:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-029A	PH1-GWC-3	12/10/2019 10:15:00AM	Groundwater	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019
1912A56-030A	GWC-2	12/10/2019 11:05:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-031A	GWC-3	12/10/2019 11:30:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-032A	GWC-3A	12/10/2019 12:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/12/2019 1:45:00AM	12/12/2019
1912A56-033A	GWC-17	12/10/2019 12:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 2:37:00PM	12/13/2019
1912A56-033B	GWC-17	12/10/2019 12:35:00PM	Groundwater	ION SCAN			12/11/2019
1912A56-033B	GWC-17	12/10/2019 12:35:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth CO.- Hightower Rd
 Lab Order: 1912A56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1912A56-033B	GWC-17	12/10/2019 12:35:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912A56-034A	GWC-5	12/10/2019 1:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 2:37:00PM	12/13/2019
1912A56-035A	TRIP BLANK	12/10/2019 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/13/2019 2:37:00PM	12/13/2019
1912A56-036A	FIELD BLANK 1	12/10/2019 1:30:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/13/2019 2:37:00PM	12/13/2019
1912A56-036B	FIELD BLANK 1	12/10/2019 1:30:00PM	Aqueous	APPENDIX I METALS		12/11/2019 4:12:00PM	12/16/2019

pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as Received	Required pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*		Final pH	Tech's Initials	Date	Time
191ZAS6-010A	6020	3	4.2	HNO3	MET-895-027	0.5	mL Pellets	1	LM	12/10	17:48
							mL Pellets				
							mL Pellets				
							mL Pellets				
							mL Pellets				
							mL Pellets				
							mL Pellets				
							mL Pellets				
							mL Pellets				
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							mL Pellets				
							mL Pellets				
							mL Pellets				
							mL Pellets				
							mL Pellets				

* Number of Pellets when adding NaOH

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289331

Sample ID: MB-289331	Client ID:	Units: mg/L	Prep Date: 12/12/2019	Run No: 413707							
SampleType: MBLK	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289331	Analysis Date: 12/12/2019	Seq No: 9328332							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS) BRL 10

Sample ID: 1912825-004ADUP	Client ID:	Units: mg/L	Prep Date: 12/12/2019	Run No: 413707							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289331	Analysis Date: 12/12/2019	Seq No: 9328336							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS) 62.00 10 64.00 3.17 5

Sample ID: 1912A56-011CDUP	Client ID: PH1-GWC-2	Units: mg/L	Prep Date: 12/12/2019	Run No: 413707							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289331	Analysis Date: 12/12/2019	Seq No: 9328348							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS) 96.00 10 95.00 1.05 5

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289336

Sample ID: MB-289336	Client ID:	Units: mg/L	Prep Date: 12/11/2019	Run No: 413956							
SampleType: MBLK	TestCode: APPENDIX I METALS SW6020B	BatchID: 289336	Analysis Date: 12/16/2019	Seq No: 9332516							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	0.00600									
Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Beryllium	BRL	0.00300									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0400									
Copper	BRL	0.0200									
Lead	BRL	0.0150									
Nickel	BRL	0.0200									
Selenium	BRL	0.0100									
Silver	BRL	0.0100									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: LCS-289336	Client ID:	Units: mg/L	Prep Date: 12/11/2019	Run No: 413956							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289336	Analysis Date: 12/16/2019	Seq No: 9332517							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09688	0.00600	0.1000	0.002097	94.8	80	120				
Arsenic	0.1034	0.0100	0.1000		103	80	120				
Barium	0.09772	0.0200	0.1000		97.7	80	120				
Beryllium	0.1007	0.00400	0.1000		101	80	120				
Cadmium	0.1008	0.00500	0.1000		101	80	120				
Chromium	0.1074	0.0200	0.1000		107	80	120				
Cobalt	0.1076	0.0500	0.1000		108	80	120				
Copper	0.1075	0.0200	0.1000		107	80	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289336

Sample ID: LCS-289336	Client ID:	Units: mg/L	Prep Date: 12/11/2019	Run No: 413956							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289336	Analysis Date: 12/16/2019	Seq No: 9332517							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.1053	0.0100	0.1000		105	80	120				
Nickel	0.1079	0.0400	0.1000		108	80	120				
Selenium	0.1013	0.0500	0.1000		101	80	120				
Silver	0.01060	0.00500	0.0100		106	80	120				
Thallium	0.1099	0.00200	0.1000		110	80	120				
Vanadium	0.1052	0.0500	0.1000		105	80	120				
Zinc	0.1002	0.0200	0.1000		100	80	120				

Sample ID: 1912A56-001BMS	Client ID: GWA-1A	Units: mg/L	Prep Date: 12/11/2019	Run No: 413956							
SampleType: MS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289336	Analysis Date: 12/16/2019	Seq No: 9332519							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09887	0.00600	0.1000	0.001812	97.1	75	125				
Arsenic	0.1018	0.0100	0.1000		102	75	125				
Barium	0.1262	0.0200	0.1000	0.02998	96.2	75	125				
Beryllium	0.1021	0.00400	0.1000		102	75	125				
Cadmium	0.1005	0.00500	0.1000		100	75	125				
Chromium	0.1089	0.0200	0.1000		109	75	125				
Cobalt	0.1053	0.0500	0.1000		105	75	125				
Copper	0.1096	0.0200	0.1000	0.002350	107	75	125				
Lead	0.1088	0.0100	0.1000		109	75	125				
Nickel	0.1087	0.0400	0.1000	0.001753	107	75	125				
Selenium	0.1002	0.0500	0.1000		100	75	125				
Silver	0.01083	0.00500	0.0100		108	75	125				
Thallium	0.1128	0.00200	0.1000	0.0004323	112	75	125				
Vanadium	0.1031	0.0500	0.1000		103	75	125				
Zinc	0.1068	0.0200	0.1000	0.01167	95.2	75	125				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289336

Sample ID: 1912A56-001BMSD	Client ID: GWA-1A	Units: mg/L	Prep Date: 12/11/2019	Run No: 413956
SampleType: MSD	TestCode: APPENDIX I METALS SW6020B	BatchID: 289336	Analysis Date: 12/16/2019	Seq No: 9332520

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09944	0.00600	0.1000	0.001812	97.6	75	125	0.09887	0.569	20	
Arsenic	0.1021	0.0100	0.1000		102	75	125	0.1018	0.253	20	
Barium	0.1293	0.0200	0.1000	0.02998	99.3	75	125	0.1262	2.42	20	
Beryllium	0.1046	0.00400	0.1000		105	75	125	0.1021	2.39	20	
Cadmium	0.1003	0.00500	0.1000		100	75	125	0.1005	0.166	20	
Chromium	0.1087	0.0200	0.1000		109	75	125	0.1089	0.152	20	
Cobalt	0.1075	0.0500	0.1000		107	75	125	0.1053	2.01	20	
Copper	0.1131	0.0200	0.1000	0.002350	111	75	125	0.1096	3.18	20	
Lead	0.1132	0.0100	0.1000		113	75	125	0.1088	4.01	20	
Nickel	0.1094	0.0400	0.1000	0.001753	108	75	125	0.1087	0.635	20	
Selenium	0.09688	0.0500	0.1000		96.9	75	125	0.1002	3.34	20	
Silver	0.01120	0.00500	0.0100		112	75	125	0.01083	3.40	20	
Thallium	0.1172	0.00200	0.1000	0.0004323	117	75	125	0.1128	3.78	20	
Vanadium	0.1044	0.0500	0.1000		104	75	125	0.1031	1.27	20	
Zinc	0.1093	0.0200	0.1000	0.01167	97.6	75	125	0.1068	2.27	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289385

Sample ID: MB-289385	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 413883							
SampleType: MBLK	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289385	Analysis Date: 12/13/2019	Seq No: 9331196							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

BRL 10

Sample ID: 1912A56-021BDUP	Client ID: GWC-24	Units: mg/L	Prep Date: 12/13/2019	Run No: 413883							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289385	Analysis Date: 12/13/2019	Seq No: 9331198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

52.00 10 53.00 1.90 5

Sample ID: 1912C41-005ADUP	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 413883							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289385	Analysis Date: 12/13/2019	Seq No: 9331209							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

32.00 10 31.00 3.17 5

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289386

Sample ID: MB-289386	Client ID:	Units: mg/L	Prep Date: 12/11/2019	Run No: 413732							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 289386	Analysis Date: 12/11/2019	Seq No: 9326783							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-289386	Client ID:	Units: mg/L	Prep Date: 12/11/2019	Run No: 413732							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 289386	Analysis Date: 12/11/2019	Seq No: 9326784							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 272.0 2.00 272.0 100 70 130

Sample ID: 1912805-006FMS	Client ID:	Units: mg/L	Prep Date: 12/11/2019	Run No: 413732							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 289386	Analysis Date: 12/11/2019	Seq No: 9326787							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 13.20 2.00 13.60 97.1 64.4 126

Sample ID: 1912805-006FMSD	Client ID:	Units: mg/L	Prep Date: 12/11/2019	Run No: 413732							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 289386	Analysis Date: 12/11/2019	Seq No: 9326788							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.80 2.00 13.60 94.1 64.4 126 13.20 3.08 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289389

Sample ID: MB-289389	Client ID:	Units: mg/L	Prep Date: 12/12/2019	Run No: 413908							
SampleType: MBLK	TestCode: Cyanide SW9014	BatchID: 289389	Analysis Date: 12/16/2019	Seq No: 9331357							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total BRL 0.010

Sample ID: LCS-289389	Client ID:	Units: mg/L	Prep Date: 12/12/2019	Run No: 413908							
SampleType: LCS	TestCode: Cyanide SW9014	BatchID: 289389	Analysis Date: 12/16/2019	Seq No: 9331358							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2460 0.010 0.2500 98.4 85 115

Sample ID: 1912941-001DMS	Client ID:	Units: mg/L	Prep Date: 12/12/2019	Run No: 413908							
SampleType: MS	TestCode: Cyanide SW9014	BatchID: 289389	Analysis Date: 12/16/2019	Seq No: 9331360							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2100 0.010 0.2500 84.0 70 130

Sample ID: 1912992-011DMS	Client ID:	Units: mg/L	Prep Date: 12/12/2019	Run No: 413908							
SampleType: MS	TestCode: Cyanide SW9014	BatchID: 289389	Analysis Date: 12/16/2019	Seq No: 9331374							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2320 0.010 0.2500 92.8 70 130

Sample ID: 1912941-001DMSD	Client ID:	Units: mg/L	Prep Date: 12/12/2019	Run No: 413908							
SampleType: MSD	TestCode: Cyanide SW9014	BatchID: 289389	Analysis Date: 12/16/2019	Seq No: 9331361							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2110 0.010 0.2500 84.4 70 130 0.2100 0.475 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289393

Sample ID: MB-289393	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289393

Sample ID: MB-289393	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	50.80	0	50.00		102	64	125				
Surr: Dibromofluoromethane	55.59	0	50.00		111	76.4	125				
Surr: Toluene-d8	50.45	0	50.00		101	78.3	116				

Sample ID: LCS-289393	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326583							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289393

Sample ID: LCS-289393	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326583							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.13	5.0	50.00		108	69.2	141				
Benzene	54.09	5.0	50.00		108	72.3	126				
Chlorobenzene	54.72	5.0	50.00		109	73.3	135				
Toluene	56.33	5.0	50.00		113	70.5	128				
Trichloroethene	54.66	5.0	50.00		109	70.3	133				
Surr: 4-Bromofluorobenzene	49.89	0	50.00		99.8	64	125				
Surr: Dibromofluoromethane	49.90	0	50.00		99.8	76.4	125				
Surr: Toluene-d8	51.45	0	50.00		103	78.3	116				

Sample ID: 1912A56-005AMS	Client ID: PHI-GWA-2	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326567							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.70	5.0	50.00		109	63.8	146				
Benzene	53.42	5.0	50.00	1.150	105	70.2	137				
Chlorobenzene	53.55	5.0	50.00		107	72.7	141				
Toluene	52.11	5.0	50.00		104	67	141				
Trichloroethene	55.28	5.0	50.00	7.300	96.0	69.3	141				
Surr: 4-Bromofluorobenzene	47.92	0	50.00		95.8	64	125				
Surr: Dibromofluoromethane	53.45	0	50.00		107	76.4	125				
Surr: Toluene-d8	49.22	0	50.00		98.4	78.3	116				

Sample ID: 1912A56-005ADUP	Client ID: PHI-GWA-2	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326566							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,1-Trichloroethane	BRL	5.0						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289393

Sample ID: 1912A56-005ADUP	Client ID: PH1-GWA-2	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326566

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,2-Trichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethane	BRL	5.0						1.430	0	20	
1,1-Dichloroethene	BRL	5.0						0	0	20	
1,2,3-Trichloropropane	BRL	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	5.0						0	0	20	
1,2-Dibromoethane	BRL	5.0						0	0	20	
1,2-Dichlorobenzene	BRL	5.0						0	0	20	
1,2-Dichloroethane	BRL	5.0						0	0	20	
1,2-Dichloropropane	BRL	5.0						0	0	20	
1,4-Dichlorobenzene	BRL	5.0						2.620	0	20	
2-Butanone	BRL	50						0	0	20	
2-Hexanone	BRL	10						0	0	20	
4-Methyl-2-pentanone	BRL	10						0	0	20	
Acetone	BRL	50						0	0	20	
Acrylonitrile	BRL	5.0						0	0	20	
Benzene	BRL	5.0						1.150	0	20	
Bromochloromethane	BRL	5.0						0	0	20	
Bromodichloromethane	BRL	5.0						0	0	20	
Bromoform	BRL	5.0						0	0	20	
Bromomethane	BRL	5.0						0	0	20	
Carbon disulfide	BRL	5.0						0	0	20	
Carbon tetrachloride	BRL	5.0						0	0	20	
Chlorobenzene	BRL	5.0						0	0	20	
Chloroethane	BRL	10						0	0	20	
Chloroform	BRL	5.0						0	0	20	
Chloromethane	BRL	10						0	0	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289393

Sample ID: 1912A56-005ADUP	Client ID: PH1-GWA-2	Units: ug/L	Prep Date: 12/12/2019	Run No: 413726							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289393	Analysis Date: 12/12/2019	Seq No: 9326566							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	114.0	5.0						115.3	1.18	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	BRL	5.0						2.440	0	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	
Trichloroethene	7.160	5.0						7.300	1.94	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	49.70	0	50.00		99.4	64	125	50.66	0	0	
Surr: Dibromofluoromethane	55.63	0	50.00		111	76.4	125	55.04	0	0	
Surr: Toluene-d8	50.90	0	50.00		102	78.3	116	50.90	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289566

Sample ID: MB-289566	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/13/2019	Seq No: 9331423							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289566

Sample ID: MB-289566	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/13/2019	Seq No: 9331423							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	49.79	0	50.00		99.6	64	125				
Surr: Dibromofluoromethane	53.23	0	50.00		106	76.4	125				
Surr: Toluene-d8	50.30	0	50.00		101	78.3	116				

Sample ID: LCS-289566	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/13/2019	Seq No: 9331422							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289566

Sample ID: LCS-289566	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/13/2019	Seq No: 9331422							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	22.50	5.0	20.00		112	69.2	141				
Benzene	22.83	5.0	20.00		114	72.3	126				
Chlorobenzene	21.43	5.0	20.00		107	73.3	135				
Toluene	22.29	5.0	20.00		111	70.5	128				
Trichloroethene	22.81	5.0	20.00		114	70.3	133				
Surr: 4-Bromofluorobenzene	49.83	0	50.00		99.7	64	125				
Surr: Dibromofluoromethane	52.88	0	50.00		106	76.4	125				
Surr: Toluene-d8	50.42	0	50.00		101	78.3	116				

Sample ID: 1912A48-001AMS	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/13/2019	Seq No: 9331425							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1158	250	1000		116	63.8	146				
Benzene	1238	250	1000	142.0	110	70.2	137				
Chlorobenzene	1028	250	1000		103	72.7	141				
Toluene	6052	250	1000	4964	109	67	141				
Trichloroethene	1104	250	1000		110	69.3	141				
Surr: 4-Bromofluorobenzene	2522	0	2500		101	64	125				
Surr: Dibromofluoromethane	2672	0	2500		107	76.4	125				
Surr: Toluene-d8	2590	0	2500		104	78.3	116				

Sample ID: 1912A56-014ADUP	Client ID: AMW-1/GWC-15	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/16/2019	Seq No: 9332384							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,1-Trichloroethane	BRL	5.0						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289566

Sample ID: 1912A56-014ADUP	Client ID: AMW-1/GWC-15	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/16/2019	Seq No: 9332384

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,2-Trichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethane	22.45	5.0						23.04	2.59	20	
1,1-Dichloroethene	BRL	5.0						1.060	0	20	
1,2,3-Trichloropropane	BRL	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	5.0						0	0	20	
1,2-Dibromoethane	BRL	5.0						0	0	20	
1,2-Dichlorobenzene	BRL	5.0						0	0	20	
1,2-Dichloroethane	BRL	5.0						0	0	20	
1,2-Dichloropropane	BRL	5.0						0	0	20	
1,4-Dichlorobenzene	BRL	5.0						0.8400	0	20	
2-Butanone	BRL	50						0	0	20	
2-Hexanone	BRL	10						0	0	20	
4-Methyl-2-pentanone	BRL	10						0	0	20	
Acetone	BRL	50						0	0	20	
Acrylonitrile	BRL	5.0						0	0	20	
Benzene	BRL	5.0						1.950	0	20	
Bromochloromethane	BRL	5.0						0	0	20	
Bromodichloromethane	BRL	5.0						0	0	20	
Bromoform	BRL	5.0						0	0	20	
Bromomethane	BRL	5.0						0	0	20	
Carbon disulfide	BRL	5.0						0	0	20	
Carbon tetrachloride	BRL	5.0						0	0	20	
Chlorobenzene	BRL	5.0						0	0	20	
Chloroethane	BRL	10						0	0	20	
Chloroform	BRL	5.0						0	0	20	
Chloromethane	BRL	10						0	0	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289566

Sample ID: 1912A56-014ADUP	Client ID: AMW-1/GWC-15	Units: ug/L	Prep Date: 12/13/2019	Run No: 413906
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289566	Analysis Date: 12/16/2019	Seq No: 9332384

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	49.95	5.0						51.04	2.16	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	31.41	5.0						31.44	0.096	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	
Trichloroethene	56.75	5.0						54.54	3.97	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	53.26	0	50.00		107	64	125	49.66	0	0	
Surr: Dibromofluoromethane	55.84	0	50.00		112	76.4	125	54.52	0	0	
Surr: Toluene-d8	50.67	0	50.00		101	78.3	116	50.04	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: R413749

Sample ID: LCS-413749	Client ID:	Units: mg/L	Prep Date:	Run No: 413749							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R413749	Analysis Date: 12/11/2019	Seq No: 9327091							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 129.9 3.00 125.0 104 85 115

Sample ID: 1912A56-003BDUP	Client ID: PH1-GWA-4	Units: mg/L	Prep Date:	Run No: 413749							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R413749	Analysis Date: 12/11/2019	Seq No: 9327095							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 6.500 3.00 7.040 7.98 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: R413877

Sample ID: MB-R413877	Client ID:	Units: mg/L	Prep Date:	Run No: 413877							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R413877	Analysis Date: 12/10/2019	Seq No: 9330661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	0.50									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R413877	Client ID:	Units: mg/L	Prep Date:	Run No: 413877							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R413877	Analysis Date: 12/10/2019	Seq No: 9330660							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.206	1.0	10.00		92.1	90	110				
Nitrate	4.719	0.25	5.000		94.4	90	110				
Sulfate	24.20	1.0	25.00		96.8	90	110				

Sample ID: 1912598-005BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 413877							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R413877	Analysis Date: 12/11/2019	Seq No: 9330695							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	10.15	1.0	10.00		101	90	110				
Nitrate	5.034	0.25	5.000	0.1126	98.4	90	110				H
Sulfate	25.85	1.0	25.00		103	90	110				

Sample ID: 1912961-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 413877							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R413877	Analysis Date: 12/11/2019	Seq No: 9330691							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	13.39	1.0	10.00	4.005	93.9	90	110				
Nitrate	7.441	0.25	5.000	2.135	106	90	110				
Sulfate	25.94	1.0	25.00		104	90	110				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: R413877

Sample ID: 1912961-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 413877							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R413877	Analysis Date: 12/11/2019	Seq No: 9330692							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	13.57	1.0	10.00	4.005	95.6	90	110	13.39	1.31	20	
Nitrate	7.501	0.25	5.000	2.135	107	90	110	7.441	0.809	20	
Sulfate	26.08	1.0	25.00		104	90	110	25.94	0.555	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: R413879

Sample ID: MB-R413879	Client ID:	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/11/2019	Seq No: 9330705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	0.50									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R413879	Client ID:	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/11/2019	Seq No: 9330704							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	10.03	1.0	10.00		100	90	110				
Nitrate	4.883	0.25	5.000		97.7	90	110				
Sulfate	26.45	1.0	25.00		106	90	110				

Sample ID: 1912C96-015BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/12/2019	Seq No: 9330718							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	104.7	10	100.0	7.255	97.4	90	110				
Nitrate	47.57	2.5	50.00		95.1	90	110				
Sulfate	262.5	10	250.0	3.429	104	90	110				

Sample ID: 1912C96-015BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/12/2019	Seq No: 9330719							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	106.2	10	100.0	7.255	98.9	90	110	104.7	1.45	20	
Nitrate	47.96	2.5	50.00		95.9	90	110	47.57	0.815	20	
Sulfate	264.4	10	250.0	3.429	104	90	110	262.5	0.706	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289373

Sample ID: MB-289373	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413774							
Sample Type: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327655							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDD	BRL	0.10									
4,4'-DDE	BRL	0.10									
4,4'-DDT	BRL	0.10									
Aldrin	BRL	0.050									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
Endosulfan I	BRL	0.050									
Endosulfan II	BRL	0.10									
Endosulfan sulfate	BRL	0.10									
Endrin	BRL	0.10									
Endrin aldehyde	BRL	0.10									
Endrin ketone	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Heptachlor epoxide	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.2205	0	0.5000		44.1	20.6	134				
Surr: Tetrachloro-m-xylene	0.3318	0	0.5000		66.4	37	128				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289373

Sample ID: LCS-289373	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413774							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327656							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	1.034	0.10	1.000		103	61	127				
Aldrin	0.9174	0.050	1.000		91.7	60.6	118				
Dieldrin	0.9649	0.10	1.000		96.5	66.8	130				
Endrin	1.199	0.10	1.000		120	72.2	135				
gamma-BHC	1.030	0.050	1.000		103	70.2	129				
Heptachlor	0.9407	0.050	1.000		94.1	65.1	131				
Surr: Decachlorobiphenyl	0.2343	0	0.5000		46.9	20.6	134				
Surr: Tetrachloro-m-xylene	0.3726	0	0.5000		74.5	37	128				

Sample ID: 1912945-001GMS	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413774							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327658							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	1.017	0.10	1.000		102	42.4	138				
Aldrin	0.7736	0.050	1.000		77.4	46.4	119				
Dieldrin	0.8891	0.10	1.000		88.9	44.9	138				
Endrin	1.122	0.10	1.000		112	58	140				
gamma-BHC	0.8792	0.050	1.000		87.9	56.5	137				
Heptachlor	0.8227	0.050	1.000		82.3	43.6	134				
Surr: Decachlorobiphenyl	0.2168	0	0.5000		43.4	20.6	134				
Surr: Tetrachloro-m-xylene	0.3480	0	0.5000		69.6	37	128				

Sample ID: 1912945-001GMSD	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413774							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	1.021	0.10	1.000		102	42.4	138	1.017	0.416	20	
Aldrin	0.8186	0.050	1.000		81.9	46.4	119	0.7736	5.64	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth CO.- Hightower Rd
Workorder: 1912A56

ANALYTICAL QC SUMMARY REPORT

BatchID: 289373

Sample ID: 1912945-001GMSD	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413774
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327659

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dieldrin	0.9271	0.10	1.000		92.7	44.9	138	0.8891	4.18	20	
Endrin	1.212	0.10	1.000		121	58	140	1.122	7.72	20	
gamma-BHC	0.9246	0.050	1.000		92.5	56.5	137	0.8792	5.04	20	
Heptachlor	0.8709	0.050	1.000		87.1	43.6	134	0.8227	5.70	21.3	
Surr: Decachlorobiphenyl	0.2141	0	0.5000		42.8	20.6	134	0.2168	0	0	
Surr: Tetrachloro-m-xylene	0.3577	0	0.5000		71.5	37	128	0.3480	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 19, 2019

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth Co.

Dear Charles Adams:

Order No: 1912C96

Analytical Environmental Services, Inc. received 33 samples on 12/11/2019 5:12:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/19-06/30/20.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling
Project Manager



CHAIN OF CUSTODY

COMPANY: ACC		ADDRESS: 1150 North Peachtree Pkwy #100 Roswell, Ga 30074					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers
PHONE: (770) 594-5998		EMAIL: CHARLES.ADAMS@ATULNET					PRESERVATION (see codes)												
SAMPLED BY: O. FUQUEA		SIGNATURE: [Signature]					APPEI VOC APPEI MHA												
#	SAMPLE ID	DATE		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS	Number of Containers	
		TIME	TIME				H	N											
1	GWA-3	12-10-19	1415	✓		GW	2												2
2	PHI-GWB-1	12-10-19	1435	✓		GW	2												2
3	GWA-3	12-11-19	0930	✓		GW		1											1
4	PHI-GWB-1	12-11-19	0940	✓		GW		1											1
5	GWC-23A	12-11-19	1225	✓		GW	2												2
6	GWC-23	12-11-19	1240	✓		GW	2												2
7	GWC-22	12-11-19	1305	✓		GW	2												2
8	GWC-13	12-11-19	1330	✓		GW	2												2
9	GWC-7	12-11-19	1350	✓		GW	2												2
10	GWC-4A	12-11-19	1430	✓		GW	2												2
11	GWA-2	12-11-19	1450	✓		GW	2												2
12	GWC-1	12-10-19	1905	✓		GW	2										@ 1405		2
13	GWC-6	12-10-19	1425	✓		GW	2												2
14	TRIP BLANK	/	/	✓		W	2												2

RELINQUISHED BY: [Signature] DATE/TIME: 12-11-19 1530		RECEIVED BY: [Signature] DATE/TIME: 12-11-19 1720		PROJECT INFORMATION				RECEIPT			
1. [Signature] 12-11-19 1530		1. [Signature] 12-11-19 1720		PROJECT NAME: FORSYTH CO.				Total # of Containers			
2. [Signature] 12-11-19 1512		2. [Signature] 12-11-19 1712		PROJECT #:				Turnaround Time (TAT) Request			
3.		3.		SITE ADDRESS:				<input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO: C. ADAMS				STATE PROGRAM (if any):			
		OUT: / / VIA: IN: / / VIA: client FedEx UPS US mail <u>courier</u> other: _____		INVOICE TO (IF DIFFERENT FROM ABOVE):				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>			
				QUOTE #:				DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>			

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.



CHAIN OF CUSTODY

COMPANY: ACC		ADDRESS: 1150 Northmeadow Pkwy, Roswell, GA 30070					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers																					
PHONE: 770-594-5998		EMAIL: Charles.adams@aes.net					<table border="1"> <tr> <td>APP/IVOC</td> <td>MS/CI/SO4/TDS/PAK</td> <td>Aldon</td> <td>Trace Metals</td> <td>BHEP</td> <td>Sulfide</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										APP/IVOC	MS/CI/SO4/TDS/PAK		Aldon	Trace Metals	BHEP	Sulfide																REMARKS	
APP/IVOC	MS/CI/SO4/TDS/PAK	Aldon	Trace Metals	BHEP	Sulfide																																			
SAMPLED BY: H. Arnold		SIGNATURE: [Signature]					PRESERVATION (see codes)																																	
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS																							
		DATE	TIME				1	2	3	4	5	6	7	8	9	10			11	12																				
1	GWC-14R	12-10-19	1530	✓		GW	2	1															3																	
2	GWC-14A	12-10-19	1535	✓		GW	2	1	1														4																	
3	GWC-14	12-10-19	1500	✓		GW	2																2																	
4	GWC-1	12-11-19	0930	✓		GW																	1																	
5	GWC-2		0940	✓		GW																	1																	
6	GWC-3A		0945	✓		GW																	1																	
7	GWC-3		0950	✓		GW																	1																	
8	GWC-5		1000	✓		GW																	1																	
9	GWC-6		1005	✓		GW																	1																	
10	GWC-17		1015	✓		GW																	1																	
11	GWC-14		1025	✓		GW																	1																	
12	GWC-14A		1030	✓		GW																	1																	
13	GWC-8R	12/11/19	1125	✓		GW	2	1															3																	
14	GWC-8A	12/11/19	1115	✓		GW	2	1					2	1									6																	
RELINQUISHED BY: [Signature]		DATE/TIME: 12-11-19 1530		RECEIVED BY: [Signature]		DATE/TIME: 12-11-19 1330		PROJECT INFORMATION										RECEIPT																						
1. [Signature]		2. [Signature]		3. [Signature]		3. [Signature]		PROJECT NAME: FORSYTH CO.										Total # of Containers																						
2. [Signature]		3. [Signature]		3. [Signature]		3. [Signature]		PROJECT #: [Blank]										Turnaround Time (TAT) Request																						
3. [Signature]		3. [Signature]		3. [Signature]		3. [Signature]		SITE ADDRESS: [Blank]										<input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																						
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: C. Adams										STATE PROGRAM (if any):																						
				OUT: / / VIA: IN: / / VIA: client FedEx UPS US mail				INVOICE TO (IF DIFFERENT FROM ABOVE):										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																						
				other: _____				QUOTE #: _____ PO#: _____										DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																						

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CHAIN OF CUSTODY

COMPANY: ACC		ADDRESS: 1150 Northmeadow Pkwy Roswell, GA 30076					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers					
PHONE: 770-594-5998		EMAIL: charles.adams@atlcc.net					PRESERVATION (see codes)												REMARKS				
SAMPLED BY: H. Auld		SIGNATURE: <i>[Signature]</i>																					
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED										REMARKS	Number of Containers					
		DATE	TIME				PRESERVATION (see codes)																
1	AMW-2	12-11-19	1300	✓		GW	2	1														Bottle set used from 'COC-16A'	3
2	GWC-8		1130	✓		GW	2																2
3	AMW-12		1355	✓		GW	2																2
4	AMW-12R		1415	✓		GW	2																2
5	PHI-GWC-1		1450	✓		GW	2																2
6																							
7																							
8																							
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RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	PROJECT INFORMATION				RECEIPT	
1. <i>[Signature]</i>	12-11-19 1530	2. <i>[Signature]</i>	12-11-19 1730	PROJECT NAME:	FORSYTH CO.			Total # of Containers	
2. <i>[Signature]</i>	12-11-19 1512	3. <i>[Signature]</i>	12/11/19 1712	PROJECT #:				Turnaround Time (TAT) Request	
3.				SITE ADDRESS:				<input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				STATE PROGRAM (if any): _____	
				OUT: / / VIA: IN: / / VIA: client FedEx UPS US mail Courier other: _____				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
				INVOICE TO (IF DIFFERENT FROM ABOVE):				DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	
				QUOTE #:				PO#:	

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Client: Atlantic Coast Consulting, Inc.
Project: Forsyth Co.
Lab ID: 1912C96

Case Narrative

Sample Receiving Nonconformance:

Sample information on the Chain of Custody (COC) did not match that on the sample bottle labels for sample 1912C96-008 A and 1912C96-009A. Sample collection time on the vials for both samples say 13.05 while the sample collection time for 008 A and 009A on the COC says 13.30 and 13.50. Samples were logged in using the information on the COC.

Vials for samples 1912C96-001 (2 of 2), 005 (2 of 2), and 007 (2 of 2) were received with headspace present as signified by >1/4 inch bubble present. Laboratory proceeded with the analysis on the remaining vial.

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-3
Project Name: Forsyth Co.	Collection Date: 12/10/2019 2:15:00 PM
Lab ID: 1912C96-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 00:40	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 00:40	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 00:40	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 00:40	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 00:40	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 00:40	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 00:40	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 00:40	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 00:40	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 00:40	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-3
Project Name: Forsyth Co.	Collection Date: 12/10/2019 2:15:00 PM
Lab ID: 1912C96-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 00:40	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 00:40	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 00:40	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 00:40	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 00:40	NP
Surr: 4-Bromofluorobenzene	95.8	64-125		%REC	289599	1	12/14/2019 00:40	NP
Surr: Dibromofluoromethane	98.7	76.4-125		%REC	289599	1	12/14/2019 00:40	NP
Surr: Toluene-d8	95.1	78.3-116		%REC	289599	1	12/14/2019 00:40	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWB-1
Project Name: Forsyth Co.	Collection Date: 12/10/2019 2:35:00 PM
Lab ID: 1912C96-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 01:05	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 01:05	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 01:05	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 01:05	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 01:05	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 01:05	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 01:05	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 01:05	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 01:05	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 01:05	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWB-1
Project Name: Forsyth Co.	Collection Date: 12/10/2019 2:35:00 PM
Lab ID: 1912C96-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 01:05	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 01:05	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 01:05	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 01:05	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 01:05	NP
Surr: 4-Bromofluorobenzene	94.3	64-125		%REC	289599	1	12/14/2019 01:05	NP
Surr: Dibromofluoromethane	96.4	76.4-125		%REC	289599	1	12/14/2019 01:05	NP
Surr: Toluene-d8	95.4	78.3-116		%REC	289599	1	12/14/2019 01:05	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-3
Project Name: Forsyth Co.	Collection Date: 12/11/2019 9:30:00 AM
Lab ID: 1912C96-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 00:42	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 00:42	DK
Barium	0.0229	0.0200		mg/L	289426	1	12/17/2019 00:42	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 00:42	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 00:42	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 00:42	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 00:42	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 00:42	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 00:42	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 00:42	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 00:42	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 00:42	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 00:42	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 00:42	DK
Zinc	0.0715	0.0200		mg/L	289426	1	12/17/2019 00:42	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWB-1
Project Name: Forsyth Co.	Collection Date: 12/11/2019 9:40:00 AM
Lab ID: 1912C96-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 00:46	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 00:46	DK
Barium	0.0670	0.0200		mg/L	289426	1	12/17/2019 00:46	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 00:46	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 00:46	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 00:46	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 00:46	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 00:46	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 00:46	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 00:46	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 00:46	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 00:46	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 00:46	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 00:46	DK
Zinc	0.0382	0.0200		mg/L	289426	1	12/17/2019 00:46	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-23A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 12:25:00 PM
Lab ID: 1912C96-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 01:30	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 01:30	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 01:30	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 01:30	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 01:30	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 01:30	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 01:30	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 01:30	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 01:30	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 01:30	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-23A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 12:25:00 PM
Lab ID: 1912C96-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 01:30	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 01:30	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 01:30	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 01:30	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 01:30	NP
Surr: 4-Bromofluorobenzene	96.5	64-125		%REC	289599	1	12/14/2019 01:30	NP
Surr: Dibromofluoromethane	98.4	76.4-125		%REC	289599	1	12/14/2019 01:30	NP
Surr: Toluene-d8	94.5	78.3-116		%REC	289599	1	12/14/2019 01:30	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-23
Project Name: Forsyth Co.	Collection Date: 12/11/2019 12:40:00 PM
Lab ID: 1912C96-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 01:55	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 01:55	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 01:55	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 01:55	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 01:55	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 01:55	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 01:55	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 01:55	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 01:55	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 01:55	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-23
Project Name: Forsyth Co.	Collection Date: 12/11/2019 12:40:00 PM
Lab ID: 1912C96-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 01:55	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 01:55	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 01:55	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 01:55	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 01:55	NP
Surr: 4-Bromofluorobenzene	96.5	64-125		%REC	289599	1	12/14/2019 01:55	NP
Surr: Dibromofluoromethane	98.3	76.4-125		%REC	289599	1	12/14/2019 01:55	NP
Surr: Toluene-d8	95.2	78.3-116		%REC	289599	1	12/14/2019 01:55	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-22
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:05:00 PM
Lab ID: 1912C96-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 02:19	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 02:19	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 02:19	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 02:19	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 02:19	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 02:19	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 02:19	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 02:19	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 02:19	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 02:19	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-22
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:05:00 PM
Lab ID: 1912C96-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 02:19	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 02:19	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 02:19	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 02:19	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 02:19	NP
Surr: 4-Bromofluorobenzene	97.4	64-125		%REC	289599	1	12/14/2019 02:19	NP
Surr: Dibromofluoromethane	98.8	76.4-125		%REC	289599	1	12/14/2019 02:19	NP
Surr: Toluene-d8	94	78.3-116		%REC	289599	1	12/14/2019 02:19	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-13
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:30:00 PM
Lab ID: 1912C96-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 02:44	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 02:44	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 02:44	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 02:44	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 02:44	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 02:44	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 02:44	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 02:44	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 02:44	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 02:44	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-13
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:30:00 PM
Lab ID: 1912C96-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 02:44	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 02:44	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 02:44	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 02:44	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 02:44	NP
Surr: 4-Bromofluorobenzene	94.8	64-125		%REC	289599	1	12/14/2019 02:44	NP
Surr: Dibromofluoromethane	97.1	76.4-125		%REC	289599	1	12/14/2019 02:44	NP
Surr: Toluene-d8	95.4	78.3-116		%REC	289599	1	12/14/2019 02:44	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-7
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:50:00 PM
Lab ID: 1912C96-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 03:09	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 03:09	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 03:09	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 03:09	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 03:09	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 03:09	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 03:09	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 03:09	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 03:09	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 03:09	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-7
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:50:00 PM
Lab ID: 1912C96-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 03:09	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 03:09	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 03:09	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 03:09	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 03:09	NP
Surr: 4-Bromofluorobenzene	94.8	64-125		%REC	289599	1	12/14/2019 03:09	NP
Surr: Dibromofluoromethane	97.8	76.4-125		%REC	289599	1	12/14/2019 03:09	NP
Surr: Toluene-d8	95	78.3-116		%REC	289599	1	12/14/2019 03:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-4A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 2:30:00 PM
Lab ID: 1912C96-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 03:34	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 03:34	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 03:34	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 03:34	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 03:34	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 03:34	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 03:34	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 03:34	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 03:34	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 03:34	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-4A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 2:30:00 PM
Lab ID: 1912C96-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 03:34	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 03:34	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 03:34	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 03:34	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 03:34	NP
Surr: 4-Bromofluorobenzene	94.5	64-125		%REC	289599	1	12/14/2019 03:34	NP
Surr: Dibromofluoromethane	97.3	76.4-125		%REC	289599	1	12/14/2019 03:34	NP
Surr: Toluene-d8	93.5	78.3-116		%REC	289599	1	12/14/2019 03:34	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Lab ID: 1912C96-011

Client Sample ID: GWA-2
Collection Date: 12/11/2019 2:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 03:59	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 03:59	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 03:59	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 03:59	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 03:59	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 03:59	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 03:59	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 03:59	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 03:59	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 03:59	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-2
Project Name: Forsyth Co.	Collection Date: 12/11/2019 2:50:00 PM
Lab ID: 1912C96-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 03:59	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 03:59	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 03:59	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 03:59	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 03:59	NP
Surr: 4-Bromofluorobenzene	98.3	64-125		%REC	289599	1	12/14/2019 03:59	NP
Surr: Dibromofluoromethane	102	76.4-125		%REC	289599	1	12/14/2019 03:59	NP
Surr: Toluene-d8	97	78.3-116		%REC	289599	1	12/14/2019 03:59	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Lab ID: 1912C96-012

Client Sample ID: GWC-1
Collection Date: 12/10/2019 2:05:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 04:23	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 04:23	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 04:23	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 04:23	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 04:23	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 04:23	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 04:23	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 04:23	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 04:23	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 04:23	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-1
Project Name: Forsyth Co.	Collection Date: 12/10/2019 2:05:00 PM
Lab ID: 1912C96-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 04:23	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 04:23	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 04:23	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 04:23	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 04:23	NP
Surr: 4-Bromofluorobenzene	95.1	64-125		%REC	289599	1	12/14/2019 04:23	NP
Surr: Dibromofluoromethane	101	76.4-125		%REC	289599	1	12/14/2019 04:23	NP
Surr: Toluene-d8	95.3	78.3-116		%REC	289599	1	12/14/2019 04:23	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-6
Project Name: Forsyth Co.	Collection Date: 12/10/2019 2:25:00 PM
Lab ID: 1912C96-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 04:48	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 04:48	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 04:48	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 04:48	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 04:48	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 04:48	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 04:48	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 04:48	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 04:48	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 04:48	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-6
Project Name: Forsyth Co.	Collection Date: 12/10/2019 2:25:00 PM
Lab ID: 1912C96-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 04:48	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 04:48	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 04:48	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 04:48	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 04:48	NP
Surr: 4-Bromofluorobenzene	94.4	64-125		%REC	289599	1	12/14/2019 04:48	NP
Surr: Dibromofluoromethane	95.6	76.4-125		%REC	289599	1	12/14/2019 04:48	NP
Surr: Toluene-d8	95	78.3-116		%REC	289599	1	12/14/2019 04:48	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth Co.	Collection Date: 12/11/2019
Lab ID: 1912C96-014	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 00:15	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 00:15	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 00:15	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 00:15	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 00:15	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 00:15	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 00:15	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 00:15	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 00:15	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 00:15	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth Co.	Collection Date: 12/11/2019
Lab ID: 1912C96-014	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 00:15	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 00:15	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 00:15	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 00:15	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 00:15	NP
Surr: 4-Bromofluorobenzene	94.7	64-125		%REC	289599	1	12/14/2019 00:15	NP
Surr: Dibromofluoromethane	96.7	76.4-125		%REC	289599	1	12/14/2019 00:15	NP
Surr: Toluene-d8	94.3	78.3-116		%REC	289599	1	12/14/2019 00:15	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14R
Project Name: Forsyth Co.	Collection Date: 12/10/2019 3:30:00 PM
Lab ID: 1912C96-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	171	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	7.3	0.50		mg/L	R413879	1	12/11/2019 23:46	AS
Nitrate	BRL	0.25		mg/L	R413879	1	12/11/2019 23:46	AS
Sulfate	3.4	1.0		mg/L	R413879	1	12/11/2019 23:46	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,1-Dichloroethane	14	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 05:13	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 05:13	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 05:13	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 05:13	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 05:13	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 05:13	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 05:13	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 05:13	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
cis-1,2-Dichloroethene	19	2.0		ug/L	289599	1	12/14/2019 05:13	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14R
Project Name: Forsyth Co.	Collection Date: 12/10/2019 3:30:00 PM
Lab ID: 1912C96-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 05:13	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 05:13	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 05:13	NP
Trichloroethene	4.3	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 05:13	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 05:13	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 05:13	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 05:13	NP
Surr: 4-Bromofluorobenzene	94.3	64-125		%REC	289599	1	12/14/2019 05:13	NP
Surr: Dibromofluoromethane	96.5	76.4-125		%REC	289599	1	12/14/2019 05:13	NP
Surr: Toluene-d8	95	78.3-116		%REC	289599	1	12/14/2019 05:13	NP
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	143	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14A
Project Name: Forsyth Co.	Collection Date: 12/10/2019 3:35:00 PM
Lab ID: 1912C96-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	183	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	16	0.50		mg/L	R413879	1	12/12/2019 00:02	AS
Nitrate	BRL	0.25		mg/L	R413879	1	12/12/2019 00:02	AS
Sulfate	2.2	1.0		mg/L	R413879	1	12/12/2019 00:02	AS
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)								
Aldrin	BRL	0.050		ug/L	289373	1	12/13/2019 14:11	UH
Surr: Decachlorobiphenyl	35.1	20.6-134		%REC	289373	1	12/13/2019 14:11	UH
Surr: Tetrachloro-m-xylene	60	37-128		%REC	289373	1	12/13/2019 14:11	UH
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,1-Dichloroethane	14	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 05:38	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 05:38	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 05:38	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 05:38	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 05:38	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 05:38	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 05:38	NP
Benzene	2.6	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 05:38	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Chloroethane	3.6	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14A
Project Name: Forsyth Co.	Collection Date: 12/10/2019 3:35:00 PM
Lab ID: 1912C96-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
cis-1,2-Dichloroethene	65	2.0		ug/L	289599	1	12/14/2019 05:38	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 05:38	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 05:38	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 05:38	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 05:38	NP
Trichloroethene	3.1	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 05:38	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 05:38	NP
Vinyl chloride	4.0	2.0		ug/L	289599	1	12/14/2019 05:38	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 05:38	NP
Surr: 4-Bromofluorobenzene	95.5	64-125		%REC	289599	1	12/14/2019 05:38	NP
Surr: Dibromofluoromethane	95.9	76.4-125		%REC	289599	1	12/14/2019 05:38	NP
Surr: Toluene-d8	94.3	78.3-116		%REC	289599	1	12/14/2019 05:38	NP
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	167	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14
Project Name: Forsyth Co.	Collection Date: 12/10/2019 3:00:00 PM
Lab ID: 1912C96-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 06:03	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 06:03	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 06:03	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 06:03	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 06:03	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 06:03	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 06:03	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 06:03	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 06:03	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 06:03	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14
Project Name: Forsyth Co.	Collection Date: 12/10/2019 3:00:00 PM
Lab ID: 1912C96-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 06:03	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 06:03	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 06:03	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 06:03	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 06:03	NP
Surr: 4-Bromofluorobenzene	94.2	64-125		%REC	289599	1	12/14/2019 06:03	NP
Surr: Dibromofluoromethane	98.9	76.4-125		%REC	289599	1	12/14/2019 06:03	NP
Surr: Toluene-d8	95.4	78.3-116		%REC	289599	1	12/14/2019 06:03	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-1
Project Name: Forsyth Co.	Collection Date: 12/11/2019 9:30:00 AM
Lab ID: 1912C96-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 00:50	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 00:50	DK
Barium	0.0852	0.0200		mg/L	289426	1	12/17/2019 00:50	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 00:50	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 00:50	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 00:50	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 00:50	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 00:50	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 00:50	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 00:50	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 00:50	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 00:50	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 00:50	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 00:50	DK
Zinc	0.0271	0.0200		mg/L	289426	1	12/17/2019 00:50	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC- 2
Project Name: Forsyth Co.	Collection Date: 12/11/2019 9:40:00 AM
Lab ID: 1912C96-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:08	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:08	DK
Barium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:08	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:08	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:08	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:08	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 01:08	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:08	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:08	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:08	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:08	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:08	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:08	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:08	DK
Zinc	0.0250	0.0200		mg/L	289426	1	12/17/2019 01:08	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-3A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 9:45:00 AM
Lab ID: 1912C96-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:11	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:11	DK
Barium	0.0407	0.0200		mg/L	289426	1	12/17/2019 01:11	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:11	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:11	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:11	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 01:11	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:11	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:11	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:11	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:11	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:11	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:11	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:11	DK
Zinc	0.0288	0.0200		mg/L	289426	1	12/17/2019 01:11	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-3
Project Name: Forsyth Co.	Collection Date: 12/11/2019 9:50:00 AM
Lab ID: 1912C96-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:15	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:15	DK
Barium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:15	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:15	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:15	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:15	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 01:15	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:15	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:15	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:15	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:15	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:15	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:15	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:15	DK
Zinc	BRL	0.0200		mg/L	289426	1	12/17/2019 01:15	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-5
Project Name: Forsyth Co.	Collection Date: 12/11/2019 10:00:00 AM
Lab ID: 1912C96-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:18	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:18	DK
Barium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:18	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:18	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:18	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:18	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 01:18	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:18	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:18	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:18	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:18	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:18	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:18	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:18	DK
Zinc	0.0383	0.0200		mg/L	289426	1	12/17/2019 01:18	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-6
Project Name: Forsyth Co.	Collection Date: 12/11/2019 10:05:00 AM
Lab ID: 1912C96-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:22	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:22	DK
Barium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:22	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:22	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:22	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:22	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 01:22	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:22	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:22	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:22	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:22	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:22	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:22	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:22	DK
Zinc	BRL	0.0200		mg/L	289426	1	12/17/2019 01:22	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-17
Project Name: Forsyth Co.	Collection Date: 12/11/2019 10:15:00 AM
Lab ID: 1912C96-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:26	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:26	DK
Barium	0.0371	0.0200		mg/L	289426	1	12/17/2019 01:26	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:26	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:26	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:26	DK
Cobalt	BRL	0.0400		mg/L	289426	1	12/17/2019 01:26	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:26	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:26	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:26	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:26	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:26	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:26	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:26	DK
Zinc	BRL	0.0200		mg/L	289426	1	12/17/2019 01:26	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14
Project Name: Forsyth Co.	Collection Date: 12/11/2019 10:25:00 AM
Lab ID: 1912C96-025	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:29	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:29	DK
Barium	0.0412	0.0200		mg/L	289426	1	12/17/2019 01:29	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:29	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:29	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:29	DK
Cobalt	0.0503	0.0400		mg/L	289426	1	12/17/2019 01:29	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:29	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:29	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:29	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:29	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:29	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:29	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:29	DK
Zinc	0.0277	0.0200		mg/L	289426	1	12/17/2019 01:29	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-14A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 10:30:00 AM
Lab ID: 1912C96-026	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS		SW6020B			(SW3005A)			
Antimony	BRL	0.00600		mg/L	289426	1	12/17/2019 01:33	DK
Arsenic	BRL	0.0100		mg/L	289426	1	12/17/2019 01:33	DK
Barium	0.170	0.0200		mg/L	289426	1	12/17/2019 01:33	DK
Beryllium	BRL	0.00300		mg/L	289426	1	12/17/2019 01:33	DK
Cadmium	BRL	0.00500		mg/L	289426	1	12/17/2019 01:33	DK
Chromium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:33	DK
Cobalt	0.228	0.0400		mg/L	289426	1	12/17/2019 01:33	DK
Copper	BRL	0.0200		mg/L	289426	1	12/17/2019 01:33	DK
Lead	BRL	0.0150		mg/L	289426	1	12/17/2019 01:33	DK
Nickel	BRL	0.0200		mg/L	289426	1	12/17/2019 01:33	DK
Selenium	BRL	0.0100		mg/L	289426	1	12/17/2019 01:33	DK
Silver	BRL	0.0100		mg/L	289426	1	12/17/2019 01:33	DK
Thallium	BRL	0.00200		mg/L	289426	1	12/17/2019 01:33	DK
Vanadium	BRL	0.0200		mg/L	289426	1	12/17/2019 01:33	DK
Zinc	BRL	0.0200		mg/L	289426	1	12/17/2019 01:33	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8R
Project Name: Forsyth Co.	Collection Date: 12/11/2019 11:25:00 AM
Lab ID: 1912C96-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	149	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	3.1	0.50		mg/L	R414273	1	12/12/2019 19:53	AS
Nitrate	BRL	0.25		mg/L	R414273	1	12/12/2019 19:53	AS
Sulfate	2.5	1.0		mg/L	R414273	1	12/12/2019 19:53	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,1-Dichloroethane	9.3	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 06:28	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 06:28	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 06:28	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 06:28	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 06:28	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 06:28	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 06:28	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 06:28	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
cis-1,2-Dichloroethene	24	2.0		ug/L	289599	1	12/14/2019 06:28	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8R
Project Name: Forsyth Co.	Collection Date: 12/11/2019 11:25:00 AM
Lab ID: 1912C96-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 06:28	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 06:28	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 06:28	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 06:28	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 06:28	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 06:28	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 06:28	NP
Surr: 4-Bromofluorobenzene	95.2	64-125		%REC	289599	1	12/14/2019 06:28	NP
Surr: Dibromofluoromethane	98.4	76.4-125		%REC	289599	1	12/14/2019 06:28	NP
Surr: Toluene-d8	94.9	78.3-116		%REC	289599	1	12/14/2019 06:28	NP
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	133	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 11:15:00 AM
Lab ID: 1912C96-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					(SW3510C)			
Bis(2-ethylhexyl)phthalate	BRL	6.0		ug/L	289439	1	12/13/2019 21:34	YH
Surr: 2,4,6-Tribromophenol	60.5	47-127		%REC	289439	1	12/13/2019 21:34	YH
Surr: 2-Fluorobiphenyl	68.6	47.4-119		%REC	289439	1	12/13/2019 21:34	YH
Surr: 2-Fluorophenol	26.7	26.2-120		%REC	289439	1	12/13/2019 21:34	YH
Surr: 4-Terphenyl-d14	31.5	45-133	S	%REC	289439	1	12/13/2019 21:34	YH
Surr: Nitrobenzene-d5	72.4	41.9-121		%REC	289439	1	12/13/2019 21:34	YH
Surr: Phenol-d5	17.9	17.8-120		%REC	289439	1	12/13/2019 21:34	YH
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	289697	1	12/17/2019 10:30	AT
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	105	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	4.6	0.50		mg/L	R414273	1	12/12/2019 20:09	AS
Nitrate	BRL	0.25		mg/L	R414273	1	12/12/2019 20:09	AS
Sulfate	BRL	1.0		mg/L	R414273	1	12/12/2019 20:09	AS
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,1-Dichloroethane	3.7	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 06:53	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 06:53	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 06:53	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 06:53	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 06:53	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 06:53	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 06:53	NP
Benzene	2.8	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8A
Project Name: Forsyth Co.	Collection Date: 12/11/2019 11:15:00 AM
Lab ID: 1912C96-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 06:53	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
cis-1,2-Dichloroethene	33	2.0		ug/L	289599	1	12/14/2019 06:53	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 06:53	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 06:53	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 06:53	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 06:53	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 06:53	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 06:53	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 06:53	NP
Surr: 4-Bromofluorobenzene	93.8	64-125		%REC	289599	1	12/14/2019 06:53	NP
Surr: Dibromofluoromethane	94.4	76.4-125		%REC	289599	1	12/14/2019 06:53	NP
Surr: Toluene-d8	94.3	78.3-116		%REC	289599	1	12/14/2019 06:53	NP

Alkalinity by SM2320B

Alkalinity, Total (As CaCO3)	142	3.00		mg/L	R413749	1	12/11/2019 15:14	SB
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Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-2
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:00:00 PM
Lab ID: 1912C96-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	110	10		mg/L	289385	1	12/13/2019 13:30	NN
ION SCAN SW9056A								
Chloride	2.3	0.50		mg/L	R414273	1	12/12/2019 20:26	AS
Nitrate	0.42	0.25		mg/L	R414273	1	12/12/2019 20:26	AS
Sulfate	6.2	1.0		mg/L	R414273	1	12/12/2019 20:26	AS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 07:17	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 07:17	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 07:17	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 07:17	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 07:17	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 07:17	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 07:17	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 07:17	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
cis-1,2-Dichloroethene	2.1	2.0		ug/L	289599	1	12/14/2019 07:17	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-2
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:00:00 PM
Lab ID: 1912C96-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 07:17	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 07:17	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 07:17	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 07:17	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 07:17	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 07:17	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 07:17	NP
Surr: 4-Bromofluorobenzene	94.6	64-125		%REC	289599	1	12/14/2019 07:17	NP
Surr: Dibromofluoromethane	94.4	76.4-125		%REC	289599	1	12/14/2019 07:17	NP
Surr: Toluene-d8	94.4	78.3-116		%REC	289599	1	12/14/2019 07:17	NP
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	74.1	3.00		mg/L	R413749	1	12/11/2019 15:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8
Project Name: Forsyth Co.	Collection Date: 12/11/2019 11:30:00 AM
Lab ID: 1912C96-030	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 07:42	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 07:42	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 07:42	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 07:42	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 07:42	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 07:42	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 07:42	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 07:42	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
cis-1,2-Dichloroethene	2.8	2.0		ug/L	289599	1	12/14/2019 07:42	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 07:42	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 07:42	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Tetrachloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8
Project Name: Forsyth Co.	Collection Date: 12/11/2019 11:30:00 AM
Lab ID: 1912C96-030	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 07:42	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 07:42	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 07:42	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 07:42	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 07:42	NP
Surr: 4-Bromofluorobenzene	94.5	64-125		%REC	289599	1	12/14/2019 07:42	NP
Surr: Dibromofluoromethane	95.6	76.4-125		%REC	289599	1	12/14/2019 07:42	NP
Surr: Toluene-d8	94.3	78.3-116		%REC	289599	1	12/14/2019 07:42	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-12
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:55:00 PM
Lab ID: 1912C96-031	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289599	1	12/14/2019 08:07	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289599	1	12/14/2019 08:07	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
2-Butanone	BRL	100		ug/L	289599	1	12/14/2019 08:07	NP
2-Hexanone	BRL	50		ug/L	289599	1	12/14/2019 08:07	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289599	1	12/14/2019 08:07	NP
Acetone	BRL	100		ug/L	289599	1	12/14/2019 08:07	NP
Acrylonitrile	BRL	50		ug/L	289599	1	12/14/2019 08:07	NP
Benzene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Bromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Bromodichloromethane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Bromoform	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Bromomethane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Carbon disulfide	BRL	5.0		ug/L	289599	1	12/14/2019 08:07	NP
Carbon tetrachloride	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Chlorobenzene	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Chloroethane	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Chloroform	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Chloromethane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Dibromochloromethane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Dibromomethane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Ethylbenzene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Iodomethane	BRL	100		ug/L	289599	1	12/14/2019 08:07	NP
Methylene chloride	BRL	5.0		ug/L	289599	1	12/14/2019 08:07	NP
Styrene	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Tetrachloroethene	2.5	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Toluene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-12
Project Name: Forsyth Co.	Collection Date: 12/11/2019 1:55:00 PM
Lab ID: 1912C96-031	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289599	1	12/14/2019 08:07	NP
Trichloroethene	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Trichlorofluoromethane	BRL	10		ug/L	289599	1	12/14/2019 08:07	NP
Vinyl acetate	BRL	100		ug/L	289599	1	12/14/2019 08:07	NP
Vinyl chloride	BRL	2.0		ug/L	289599	1	12/14/2019 08:07	NP
Xylenes, Total	BRL	5.0		ug/L	289599	1	12/14/2019 08:07	NP
Surr: 4-Bromofluorobenzene	94.9	64-125		%REC	289599	1	12/14/2019 08:07	NP
Surr: Dibromofluoromethane	94.5	76.4-125		%REC	289599	1	12/14/2019 08:07	NP
Surr: Toluene-d8	94.2	78.3-116		%REC	289599	1	12/14/2019 08:07	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-12R
Project Name: Forsyth Co.	Collection Date: 12/11/2019 2:15:00 PM
Lab ID: 1912C96-032	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289616	1	12/13/2019 16:01	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289616	1	12/13/2019 16:01	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
2-Butanone	BRL	100		ug/L	289616	1	12/13/2019 16:01	NP
2-Hexanone	BRL	50		ug/L	289616	1	12/13/2019 16:01	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289616	1	12/13/2019 16:01	NP
Acetone	BRL	100		ug/L	289616	1	12/13/2019 16:01	NP
Acrylonitrile	BRL	50		ug/L	289616	1	12/13/2019 16:01	NP
Benzene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Bromochloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Bromodichloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Bromoform	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Bromomethane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Carbon disulfide	BRL	5.0		ug/L	289616	1	12/13/2019 16:01	NP
Carbon tetrachloride	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Chlorobenzene	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Chloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Chloroform	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Chloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Dibromochloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Dibromomethane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Ethylbenzene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Iodomethane	BRL	100		ug/L	289616	1	12/13/2019 16:01	NP
Methylene chloride	BRL	5.0		ug/L	289616	1	12/13/2019 16:01	NP
Styrene	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Tetrachloroethene	8.0	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Toluene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-12R
Project Name: Forsyth Co.	Collection Date: 12/11/2019 2:15:00 PM
Lab ID: 1912C96-032	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289616	1	12/13/2019 16:01	NP
Trichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Trichlorofluoromethane	BRL	10		ug/L	289616	1	12/13/2019 16:01	NP
Vinyl acetate	BRL	100		ug/L	289616	1	12/13/2019 16:01	NP
Vinyl chloride	BRL	2.0		ug/L	289616	1	12/13/2019 16:01	NP
Xylenes, Total	BRL	5.0		ug/L	289616	1	12/13/2019 16:01	NP
Surr: 4-Bromofluorobenzene	96.7	64-125		%REC	289616	1	12/13/2019 16:01	NP
Surr: Dibromofluoromethane	93.3	76.4-125		%REC	289616	1	12/13/2019 16:01	NP
Surr: Toluene-d8	95.5	78.3-116		%REC	289616	1	12/13/2019 16:01	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-1
Project Name: Forsyth Co.	Collection Date: 12/11/2019 2:50:00 PM
Lab ID: 1912C96-033	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289616	1	12/13/2019 16:26	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289616	1	12/13/2019 16:26	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
2-Butanone	BRL	100		ug/L	289616	1	12/13/2019 16:26	NP
2-Hexanone	BRL	50		ug/L	289616	1	12/13/2019 16:26	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289616	1	12/13/2019 16:26	NP
Acetone	BRL	100		ug/L	289616	1	12/13/2019 16:26	NP
Acrylonitrile	BRL	50		ug/L	289616	1	12/13/2019 16:26	NP
Benzene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Bromochloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Bromodichloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Bromoform	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Bromomethane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Carbon disulfide	BRL	5.0		ug/L	289616	1	12/13/2019 16:26	NP
Carbon tetrachloride	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Chlorobenzene	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Chloroethane	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Chloroform	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Chloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Dibromochloromethane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Dibromomethane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Ethylbenzene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Iodomethane	BRL	100		ug/L	289616	1	12/13/2019 16:26	NP
Methylene chloride	BRL	5.0		ug/L	289616	1	12/13/2019 16:26	NP
Styrene	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Tetrachloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Toluene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-1
Project Name: Forsyth Co.	Collection Date: 12/11/2019 2:50:00 PM
Lab ID: 1912C96-033	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289616	1	12/13/2019 16:26	NP
Trichloroethene	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Trichlorofluoromethane	BRL	10		ug/L	289616	1	12/13/2019 16:26	NP
Vinyl acetate	BRL	100		ug/L	289616	1	12/13/2019 16:26	NP
Vinyl chloride	BRL	2.0		ug/L	289616	1	12/13/2019 16:26	NP
Xylenes, Total	BRL	5.0		ug/L	289616	1	12/13/2019 16:26	NP
Surr: 4-Bromofluorobenzene	95.6	64-125		%REC	289616	1	12/13/2019 16:26	NP
Surr: Dibromofluoromethane	93.6	76.4-125		%REC	289616	1	12/13/2019 16:26	NP
Surr: Toluene-d8	95.5	78.3-116		%REC	289616	1	12/13/2019 16:26	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Atlantic Coast Consulting, Inc.

AES Work Order Number: 1912C96

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.2 °C Cooler 2 Temperature 0.4 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AP 12/11/19

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input checked="" type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials). AP 12/11/19

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AP 12/11/19

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth Co.
 Lab Order: 1912C96

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1912C96-001A	GWA-3	12/10/2019 2:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-002A	PH1-GWB-1	12/10/2019 2:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-003A	GWA-3	12/11/2019 9:30:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-004A	PH1-GWB-1	12/11/2019 9:40:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-005A	GWC-23A	12/11/2019 12:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-006A	GWC-23	12/11/2019 12:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-007A	GWC-22	12/11/2019 1:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-008A	GWC-13	12/11/2019 1:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-009A	GWC-7	12/11/2019 1:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-010A	GWC-4A	12/11/2019 2:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-011A	GWA-2	12/11/2019 2:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-012A	GWC-1	12/10/2019 2:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-013A	GWC-6	12/10/2019 2:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-014A	TRIP BLANK	12/11/2019 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-015A	GWC-14R	12/10/2019 3:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-015B	GWC-14R	12/10/2019 3:30:00PM	Groundwater	ION SCAN			12/11/2019
1912C96-015B	GWC-14R	12/10/2019 3:30:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912C96-015B	GWC-14R	12/10/2019 3:30:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912C96-016A	GWC-14A	12/10/2019 3:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-016B	GWC-14A	12/10/2019 3:35:00PM	Groundwater	ION SCAN			12/12/2019
1912C96-016B	GWC-14A	12/10/2019 3:35:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912C96-016B	GWC-14A	12/10/2019 3:35:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912C96-016C	GWC-14A	12/10/2019 3:35:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		12/13/2019 9:00:00AM	12/13/2019
1912C96-017A	GWC-14	12/10/2019 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-018A	GWC-1	12/11/2019 9:30:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-019A	GWC- 2	12/11/2019 9:40:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-020A	GWC-3A	12/11/2019 9:45:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-021A	GWC-3	12/11/2019 9:50:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-022A	GWC-5	12/11/2019 10:00:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth Co.
 Lab Order: 1912C96

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1912C96-023A	GWC-6	12/11/2019 10:05:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-024A	GWC-17	12/11/2019 10:15:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-025A	GWC-14	12/11/2019 10:25:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-026A	GWC-14A	12/11/2019 10:30:00AM	Groundwater	APPENDIX I METALS		12/13/2019 1:14:00PM	12/17/2019
1912C96-027A	GWC-8R	12/11/2019 11:25:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-027B	GWC-8R	12/11/2019 11:25:00AM	Groundwater	ION SCAN			12/12/2019
1912C96-027B	GWC-8R	12/11/2019 11:25:00AM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912C96-027B	GWC-8R	12/11/2019 11:25:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912C96-028A	GWC-8A	12/11/2019 11:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-028B	GWC-8A	12/11/2019 11:15:00AM	Groundwater	ION SCAN			12/12/2019
1912C96-028B	GWC-8A	12/11/2019 11:15:00AM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912C96-028B	GWC-8A	12/11/2019 11:15:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912C96-028C	GWC-8A	12/11/2019 11:15:00AM	Groundwater	TCL-SEMIVOLATILE ORGANICS		12/13/2019 11:00:00AM	12/13/2019
1912C96-028D	GWC-8A	12/11/2019 11:15:00AM	Groundwater	Sulfide by SW9030/9034		12/17/2019 9:10:00AM	12/17/2019
1912C96-029A	AMW-2	12/11/2019 1:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-029B	AMW-2	12/11/2019 1:00:00PM	Groundwater	ION SCAN			12/12/2019
1912C96-029B	AMW-2	12/11/2019 1:00:00PM	Groundwater	Alkalinity by SM2320B			12/11/2019
1912C96-029B	AMW-2	12/11/2019 1:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/13/2019 10:30:00AM	12/13/2019
1912C96-030A	GWC-8	12/11/2019 11:30:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-031A	AMW-12	12/11/2019 1:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 10:35:00PM	12/14/2019
1912C96-032A	AMW-12R	12/11/2019 2:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 9:21:00AM	12/13/2019
1912C96-033A	PH1-GWC-1	12/11/2019 2:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/13/2019 9:21:00AM	12/13/2019

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289373

Sample ID: MB-289373	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413774							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327655							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aldrin	BRL	0.050									
Surr: Decachlorobiphenyl	0.2205	0	0.5000		44.1	20.6	134				
Surr: Tetrachloro-m-xylene	0.3318	0	0.5000		66.4	37	128				

Sample ID: LCS-289373	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413774							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327656							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aldrin	0.9174	0.050	1.000		91.7	60.6	118				
Surr: Decachlorobiphenyl	0.2343	0	0.5000		46.9	20.6	134				
Surr: Tetrachloro-m-xylene	0.3726	0	0.5000		74.5	37	128				

Sample ID: 1912945-001GMS	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413774							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327658							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aldrin	0.7736	0.050	1.000		77.4	46.4	119				
Surr: Decachlorobiphenyl	0.2168	0	0.5000		43.4	20.6	134				
Surr: Tetrachloro-m-xylene	0.3480	0	0.5000		69.6	37	128				

Sample ID: 1912945-001GMSD	Client ID:	Units: ug/L	Prep Date: 12/12/2019	Run No: 413774							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 289373	Analysis Date: 12/12/2019	Seq No: 9327659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aldrin	0.8186	0.050	1.000		81.9	46.4	119	0.7736	5.64	20	
Surr: Decachlorobiphenyl	0.2141	0	0.5000		42.8	20.6	134	0.2168	0	0	
Surr: Tetrachloro-m-xylene	0.3577	0	0.5000		71.5	37	128	0.3480	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289385

Sample ID: MB-289385	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 413883							
SampleType: MBLK	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289385	Analysis Date: 12/13/2019	Seq No: 9331196							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

BRL 10

Sample ID: 1912A56-021BDUP	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 413883							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289385	Analysis Date: 12/13/2019	Seq No: 9331198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

52.00 10 53.00 1.90 5

Sample ID: 1912C41-005ADUP	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 413883							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C	BatchID: 289385	Analysis Date: 12/13/2019	Seq No: 9331209							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

32.00 10 31.00 3.17 5

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289426

Sample ID: MB-289426	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 414060							
SampleType: MBLK	TestCode: APPENDIX I METALS SW6020B	BatchID: 289426	Analysis Date: 12/17/2019	Seq No: 9334785							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	0.00600									
Arsenic	BRL	0.0100									
Barium	BRL	0.0100									
Beryllium	BRL	0.00200									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0100									
Copper	BRL	0.0200									
Lead	BRL	0.00500									
Nickel	BRL	0.0400									
Selenium	BRL	0.0100									
Silver	BRL	0.0100									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: LCS-289426	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 414060							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289426	Analysis Date: 12/17/2019	Seq No: 9334786							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1096	0.00600	0.1000		110	80	120				
Arsenic	0.1132	0.0100	0.1000		113	80	120				
Barium	0.1051	0.0200	0.1000		105	80	120				
Beryllium	0.1183	0.00400	0.1000		118	80	120				
Cadmium	0.1022	0.00500	0.1000		102	80	120				
Chromium	0.1128	0.0200	0.1000		113	80	120				
Cobalt	0.1139	0.0500	0.1000		114	80	120				
Copper	0.1140	0.0200	0.1000		114	80	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289426

Sample ID: LCS-289426	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 414060							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289426	Analysis Date: 12/17/2019	Seq No: 9334786							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.1142	0.0100	0.1000		114	80	120				
Nickel	0.1138	0.0400	0.1000		114	80	120				
Selenium	0.1090	0.0500	0.1000		109	80	120				
Silver	0.01120	0.00500	0.0100		112	80	120				
Thallium	0.1163	0.00200	0.1000		116	80	120				
Vanadium	0.1123	0.0500	0.1000		112	80	120				
Zinc	0.1137	0.0200	0.1000		114	80	120				

Sample ID: 1912B65-026BMS	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 414060							
SampleType: MS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289426	Analysis Date: 12/17/2019	Seq No: 9334788							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09981	0.00600	0.1000		99.8	75	125				
Arsenic	0.1078	0.0100	0.1000		108	75	125				
Barium	0.09852	0.0200	0.1000	0.0003391	98.2	75	125				
Beryllium	0.1123	0.00400	0.1000		112	75	125				
Cadmium	0.1004	0.00500	0.1000		100	75	125				
Chromium	0.1074	0.0200	0.1000		107	75	125				
Cobalt	0.1096	0.0500	0.1000		110	75	125				
Copper	0.1081	0.0200	0.1000		108	75	125				
Lead	0.1070	0.0100	0.1000		107	75	125				
Nickel	0.1083	0.0400	0.1000		108	75	125				
Selenium	0.1019	0.0500	0.1000		102	75	125				
Silver	0.01067	0.00500	0.0100		107	75	125				
Thallium	0.1160	0.00200	0.1000	0.0004124	116	75	125				
Vanadium	0.1091	0.0500	0.1000		109	75	125				
Zinc	0.1005	0.0200	0.1000		101	75	125				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289426

Sample ID: 1912B65-026BMSD	Client ID:	Units: mg/L	Prep Date: 12/13/2019	Run No: 414060
SampleType: MSD	TestCode: APPENDIX I METALS SW6020B	BatchID: 289426	Analysis Date: 12/17/2019	Seq No: 9334789

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1013	0.00600	0.1000		101	75	125	0.09981	1.51	20	
Arsenic	0.1037	0.0100	0.1000		104	75	125	0.1078	3.88	20	
Barium	0.09933	0.0200	0.1000	0.0003391	99.0	75	125	0.09852	0.815	20	
Beryllium	0.1111	0.00400	0.1000		111	75	125	0.1123	1.10	20	
Cadmium	0.09829	0.00500	0.1000		98.3	75	125	0.1004	2.11	20	
Chromium	0.1050	0.0200	0.1000		105	75	125	0.1074	2.23	20	
Cobalt	0.1053	0.0500	0.1000		105	75	125	0.1096	4.07	20	
Copper	0.1029	0.0200	0.1000		103	75	125	0.1081	4.92	20	
Lead	0.1061	0.0100	0.1000		106	75	125	0.1070	0.813	20	
Nickel	0.1031	0.0400	0.1000		103	75	125	0.1083	4.91	20	
Selenium	0.09939	0.0500	0.1000		99.4	75	125	0.1019	2.53	20	
Silver	0.01061	0.00500	0.0100		106	75	125	0.01067	0.515	20	
Thallium	0.1120	0.00200	0.1000	0.0004124	112	75	125	0.1160	3.51	20	
Vanadium	0.1068	0.0500	0.1000		107	75	125	0.1091	2.16	20	
Zinc	0.1006	0.0200	0.1000		101	75	125	0.1005	0.102	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289599

Sample ID: MB-289599	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/13/2019	Seq No: 9333032							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289599

Sample ID: MB-289599	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/13/2019	Seq No: 9333032							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	48.04	0	50.00		96.1	64	125				
Surr: Dibromofluoromethane	49.38	0	50.00		98.8	76.4	125				
Surr: Toluene-d8	47.09	0	50.00		94.2	78.3	116				

Sample ID: LCS-289599	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/13/2019	Seq No: 9333031							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289599

Sample ID: LCS-289599	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/13/2019	Seq No: 9333031							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	20.93	5.0	20.00		105	69.2	141				
Benzene	21.56	5.0	20.00		108	72.3	126				
Chlorobenzene	21.39	5.0	20.00		107	73.3	135				
Toluene	21.72	5.0	20.00		109	70.5	128				
Trichloroethene	23.54	5.0	20.00		118	70.3	133				
Surr: 4-Bromofluorobenzene	47.43	0	50.00		94.9	64	125				
Surr: Dibromofluoromethane	48.91	0	50.00		97.8	76.4	125				
Surr: Toluene-d8	48.00	0	50.00		96.0	78.3	116				

Sample ID: 1912C96-016AMS	Client ID: GWC-14A	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/16/2019	Seq No: 9337353							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.10	5.0	20.00		95.5	63.8	146				
Benzene	21.93	5.0	20.00	2.560	96.8	70.2	137				
Chlorobenzene	28.27	5.0	20.00	9.020	96.2	72.7	141				
Toluene	19.53	5.0	20.00		97.6	67	141				
Trichloroethene	24.18	5.0	20.00	3.100	105	69.3	141				
Surr: 4-Bromofluorobenzene	46.02	0	50.00		92.0	64	125				
Surr: Dibromofluoromethane	45.67	0	50.00		91.3	76.4	125				
Surr: Toluene-d8	46.80	0	50.00		93.6	78.3	116				

Sample ID: 1912C96-015ADUP	Client ID: GWC-14R	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/16/2019	Seq No: 9337351							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,1-Trichloroethane	BRL	5.0						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289599

Sample ID: 1912C96-015ADUP	Client ID: GWC-14R	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/16/2019	Seq No: 9337351

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,2-Trichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethane	15.08	5.0						14.26	5.59	20	
1,1-Dichloroethene	BRL	5.0						0	0	20	
1,2,3-Trichloropropane	BRL	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	5.0						0	0	20	
1,2-Dibromoethane	BRL	5.0						0	0	20	
1,2-Dichlorobenzene	BRL	5.0						0	0	20	
1,2-Dichloroethane	BRL	5.0						0	0	20	
1,2-Dichloropropane	BRL	5.0						0	0	20	
1,4-Dichlorobenzene	BRL	5.0						1.200	0	20	
2-Butanone	BRL	50						0	0	20	
2-Hexanone	BRL	10						0	0	20	
4-Methyl-2-pentanone	BRL	10						0	0	20	
Acetone	BRL	50						0	0	20	
Acrylonitrile	BRL	5.0						0	0	20	
Benzene	BRL	5.0						1.070	0	20	
Bromochloromethane	BRL	5.0						0	0	20	
Bromodichloromethane	BRL	5.0						0	0	20	
Bromoform	BRL	5.0						0	0	20	
Bromomethane	BRL	5.0						0	0	20	
Carbon disulfide	BRL	5.0						0	0	20	
Carbon tetrachloride	BRL	5.0						0	0	20	
Chlorobenzene	BRL	5.0						1.180	0	20	
Chloroethane	BRL	10						0.7600	0	20	
Chloroform	BRL	5.0						0	0	20	
Chloromethane	BRL	10						0	0	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289599

Sample ID: 1912C96-015ADUP	Client ID: GWC-14R	Units: ug/L	Prep Date: 12/13/2019	Run No: 413992
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289599	Analysis Date: 12/16/2019	Seq No: 9337351

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	19.66	5.0						18.80	4.47	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	BRL	5.0						1.220	0	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	
Trichloroethene	BRL	5.0						4.280	0	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	48.79	0	50.00		97.6	64	125	47.16	0	0	
Surr: Dibromofluoromethane	50.50	0	50.00		101	76.4	125	48.24	0	0	
Surr: Toluene-d8	47.56	0	50.00		95.1	78.3	116	47.48	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289616

Sample ID: MB-289616	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332778							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289616

Sample ID: MB-289616	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332778							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	47.69	0	50.00		95.4	64	125				
Surr: Dibromofluoromethane	49.13	0	50.00		98.3	76.4	125				
Surr: Toluene-d8	47.91	0	50.00		95.8	78.3	116				

Sample ID: LCS-289616	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332774							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289616

Sample ID: LCS-289616	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332774							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	20.52	5.0	20.00		103	69.2	141				
Benzene	21.00	5.0	20.00		105	72.3	126				
Chlorobenzene	21.08	5.0	20.00		105	73.3	135				
Toluene	20.70	5.0	20.00		104	70.5	128				
Trichloroethene	23.03	5.0	20.00		115	70.3	133				
Surr: 4-Bromofluorobenzene	47.12	0	50.00		94.2	64	125				
Surr: Dibromofluoromethane	49.14	0	50.00		98.3	76.4	125				
Surr: Toluene-d8	47.35	0	50.00		94.7	78.3	116				

Sample ID: 1912C96-033AMS	Client ID: PHI-GWC-1	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332792							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	21.67	5.0	20.00		108	63.8	146				
Benzene	22.46	5.0	20.00		112	70.2	137				
Chlorobenzene	22.61	5.0	20.00		113	72.7	141				
Toluene	22.35	5.0	20.00		112	67	141				
Trichloroethene	23.99	5.0	20.00		120	69.3	141				
Surr: 4-Bromofluorobenzene	48.46	0	50.00		96.9	64	125				
Surr: Dibromofluoromethane	49.66	0	50.00		99.3	76.4	125				
Surr: Toluene-d8	47.47	0	50.00		94.9	78.3	116				

Sample ID: 1912C96-032ADUP	Client ID: AMW-12R	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332788							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,1-Trichloroethane	BRL	5.0						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289616

Sample ID: 1912C96-032ADUP	Client ID: AMW-12R	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332788

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,2-Trichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethane	BRL	5.0						1.570	0	20	
1,1-Dichloroethene	BRL	5.0						0	0	20	
1,2,3-Trichloropropane	BRL	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	5.0						0	0	20	
1,2-Dibromoethane	BRL	5.0						0	0	20	
1,2-Dichlorobenzene	BRL	5.0						0	0	20	
1,2-Dichloroethane	BRL	5.0						0	0	20	
1,2-Dichloropropane	BRL	5.0						0	0	20	
1,4-Dichlorobenzene	BRL	5.0						0	0	20	
2-Butanone	BRL	50						0	0	20	
2-Hexanone	BRL	10						0	0	20	
4-Methyl-2-pentanone	BRL	10						0	0	20	
Acetone	BRL	50						0	0	20	
Acrylonitrile	BRL	5.0						0	0	20	
Benzene	BRL	5.0						0	0	20	
Bromochloromethane	BRL	5.0						0	0	20	
Bromodichloromethane	BRL	5.0						0	0	20	
Bromoform	BRL	5.0						0	0	20	
Bromomethane	BRL	5.0						0	0	20	
Carbon disulfide	BRL	5.0						0	0	20	
Carbon tetrachloride	BRL	5.0						0	0	20	
Chlorobenzene	BRL	5.0						0	0	20	
Chloroethane	BRL	10						0	0	20	
Chloroform	BRL	5.0						0	0	20	
Chloromethane	BRL	10						0	0	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289616

Sample ID: 1912C96-032ADUP	Client ID: AMW-12R	Units: ug/L	Prep Date: 12/13/2019	Run No: 413984
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289616	Analysis Date: 12/13/2019	Seq No: 9332788

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0						1.080	0	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	7.970	5.0						8.000	0.376	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	
Trichloroethene	BRL	5.0						1.640	0	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	47.87	0	50.00		95.7	64	125	48.37	0	0	
Surr: Dibromofluoromethane	48.97	0	50.00		97.9	76.4	125	46.63	0	0	
Surr: Toluene-d8	47.74	0	50.00		95.5	78.3	116	47.73	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289697

Sample ID: MB-289697	Client ID:	Units: mg/L	Prep Date: 12/17/2019	Run No: 414087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 289697	Analysis Date: 12/17/2019	Seq No: 9335820							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-289697	Client ID:	Units: mg/L	Prep Date: 12/17/2019	Run No: 414087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 289697	Analysis Date: 12/17/2019	Seq No: 9335831							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 216.0 2.00 216.0 100 70 130

Sample ID: 1912C96-028DMS	Client ID: GWC-8A	Units: mg/L	Prep Date: 12/17/2019	Run No: 414087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 289697	Analysis Date: 12/17/2019	Seq No: 9335854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 11.40 2.00 10.80 106 64.4 126

Sample ID: 1912C96-028DMSD	Client ID: GWC-8A	Units: mg/L	Prep Date: 12/17/2019	Run No: 414087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 289697	Analysis Date: 12/17/2019	Seq No: 9335855							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 11.20 2.00 10.80 104 64.4 126 11.40 1.77 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: R413749

Sample ID: LCS-413749	Client ID:	Units: mg/L	Prep Date:	Run No: 413749							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R413749	Analysis Date: 12/11/2019	Seq No: 9327091							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 129.9 3.00 125.0 104 85 115

Sample ID: 1912A56-003BDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 413749							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R413749	Analysis Date: 12/11/2019	Seq No: 9327095							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 6.500 3.00 7.040 7.98 30

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: R413879

Sample ID: MB-R413879	Client ID:	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/11/2019	Seq No: 9330705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	0.50									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R413879	Client ID:	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/11/2019	Seq No: 9330704							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	10.03	1.0	10.00		100	90	110				
Nitrate	4.883	0.25	5.000		97.7	90	110				
Sulfate	26.45	1.0	25.00		106	90	110				

Sample ID: 1912C96-015BMS	Client ID: GWC-14R	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/12/2019	Seq No: 9330718							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	104.7	10	100.0	7.255	97.4	90	110				
Nitrate	47.57	2.5	50.00		95.1	90	110				
Sulfate	262.5	10	250.0	3.429	104	90	110				

Sample ID: 1912C96-015BMSD	Client ID: GWC-14R	Units: mg/L	Prep Date:	Run No: 413879							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R413879	Analysis Date: 12/12/2019	Seq No: 9330719							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	106.2	10	100.0	7.255	98.9	90	110	104.7	1.45	20	
Nitrate	47.96	2.5	50.00		95.9	90	110	47.57	0.815	20	
Sulfate	264.4	10	250.0	3.429	104	90	110	262.5	0.706	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: R414273

Sample ID: MB-R414273	Client ID:	Units: mg/L	Prep Date:	Run No: 414273							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R414273	Analysis Date: 12/12/2019	Seq No: 9340521							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R414273	Client ID:	Units: mg/L	Prep Date:	Run No: 414273							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R414273	Analysis Date: 12/12/2019	Seq No: 9340520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	10.29	1.0	10.00		103	90	110				
Nitrate	5.232	0.25	5.000		105	90	110				
Sulfate	25.88	1.0	25.00		104	90	110				

Sample ID: 1912E21-001BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 414273							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R414273	Analysis Date: 12/13/2019	Seq No: 9340535							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	214.5	10	100.0	123.9	90.6	90	110				
Nitrate	62.51	2.5	50.00	12.71	99.6	90	110				
Sulfate	299.0	10	250.0	32.82	106	90	110				

Sample ID: 1912E21-001BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 414273							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R414273	Analysis Date: 12/13/2019	Seq No: 9340539							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	214.5	10	100.0	123.9	90.6	90	110	214.5	0.011	20	
Nitrate	62.68	2.5	50.00	12.71	99.9	90	110	62.51	0.273	20	
Sulfate	299.4	10	250.0	32.82	107	90	110	299.0	0.159	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289439

Sample ID: MB-289439	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812							
Sample Type: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9328949							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	10									
2,4,5-Trichlorophenol	BRL	25									
2,4,6-Trichlorophenol	BRL	10									
2,4-Dichlorophenol	BRL	10									
2,4-Dimethylphenol	BRL	10									
2,4-Dinitrophenol	BRL	25									
2,4-Dinitrotoluene	BRL	10									
2,6-Dinitrotoluene	BRL	10									
2-Chloronaphthalene	BRL	10									
2-Chlorophenol	BRL	10									
2-Methylnaphthalene	BRL	10									
2-Methylphenol	BRL	10									
2-Nitroaniline	BRL	25									
2-Nitrophenol	BRL	10									
3,3'-Dichlorobenzidine	BRL	10									
3-Nitroaniline	BRL	25									
4,6-Dinitro-2-methylphenol	BRL	25									
4-Bromophenyl phenyl ether	BRL	10									
4-Chloro-3-methylphenol	BRL	10									
4-Chloroaniline	BRL	10									
4-Chlorophenyl phenyl ether	BRL	10									
4-Methylphenol	BRL	10									
4-Nitroaniline	BRL	25									
4-Nitrophenol	BRL	25									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Acetophenone	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289439

Sample ID: MB-289439	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9328949

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	BRL	10									
Atrazine	BRL	10									
Benz(a)anthracene	BRL	10									
Benzaldehyde	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Bis(2-chloroethoxy)methane	BRL	10									
Bis(2-chloroethyl)ether	BRL	10									
Bis(2-chloroisopropyl)ether	BRL	10									
Bis(2-ethylhexyl)phthalate	BRL	10									
Butyl benzyl phthalate	BRL	10									
Caprolactam	BRL	10									
Carbazole	BRL	10									
Chrysene	BRL	10									
Di-n-butyl phthalate	BRL	10									
Di-n-octyl phthalate	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Dibenzofuran	BRL	10									
Diethyl phthalate	BRL	10									
Dimethyl phthalate	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Hexachlorobenzene	BRL	10									
Hexachlorobutadiene	BRL	10									
Hexachlorocyclopentadiene	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289439

Sample ID: MB-289439	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812							
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9328949							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isophorone	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodiphenylamine	BRL	10									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
Pentachlorophenol	BRL	25									
Phenanthrene	BRL	10									
Phenol	BRL	10									
Pyrene	BRL	10									
Surr: 2,4,6-Tribromophenol	65.40	0	100.0		65.4	47	127				
Surr: 2-Fluorobiphenyl	44.06	0	50.00		88.1	47.4	119				
Surr: 2-Fluorophenol	43.36	0	100.0		43.4	26.2	120				
Surr: 4-Terphenyl-d14	25.01	0	50.00		50.0	45	133				
Surr: Nitrobenzene-d5	44.94	0	50.00		89.9	41.9	121				
Surr: Phenol-d5	27.76	0	100.0		27.8	17.8	120				

Sample ID: LCS-289439	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9328950							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	85.03	10	100.0		85.0	60.1	123				
2-Chlorophenol	76.25	10	100.0		76.2	50.6	120				
4-Chloro-3-methylphenol	85.34	10	100.0		85.3	59.5	122				
4-Nitrophenol	32.59	25	100.0		32.6	20	120				
Acenaphthene	96.48	10	100.0		96.5	60.5	119				
N-Nitrosodi-n-propylamine	102.8	10	100.0		103	62.3	127				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289439

Sample ID: LCS-289439	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9328950							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	56.11	25	100.0		56.1	50.9	120				
Phenol	29.01	10	100.0		29.0	20.1	120				
Pyrene	122.7	10	100.0		123	68.8	139				
Surr: 2,4,6-Tribromophenol	77.14	0	100.0		77.1	47	127				
Surr: 2-Fluorobiphenyl	46.23	0	50.00		92.5	47.4	119				
Surr: 2-Fluorophenol	42.29	0	100.0		42.3	26.2	120				
Surr: 4-Terphenyl-d14	36.01	0	50.00		72.0	45	133				
Surr: Nitrobenzene-d5	50.25	0	50.00		100	41.9	121				
Surr: Phenol-d5	34.94	0	100.0		34.9	17.8	120				

Sample ID: 1912D06-002BMS	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9329403							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	63.42	10	100.0		63.4	50.3	123				
2-Chlorophenol	62.96	10	100.0		63.0	50.8	120				
4-Chloro-3-methylphenol	68.83	10	100.0		68.8	47.1	124				
4-Nitrophenol	29.68	25	100.0		29.7	21.8	120				
Acenaphthene	77.18	10	100.0		77.2	44.7	119				
N-Nitrosodi-n-propylamine	82.35	10	100.0		82.4	52.1	120				
Pentachlorophenol	47.06	25	100.0		47.1	40	120				
Phenol	28.48	10	100.0		28.5	31.5	120				S
Pyrene	87.09	10	100.0		87.1	51	129				
Surr: 2,4,6-Tribromophenol	59.45	0	100.0		59.4	47	127				
Surr: 2-Fluorobiphenyl	35.26	0	50.00		70.5	47.4	119				
Surr: 2-Fluorophenol	33.04	0	100.0		33.0	26.2	120				
Surr: 4-Terphenyl-d14	26.64	0	50.00		53.3	45	133				
Surr: Nitrobenzene-d5	37.51	0	50.00		75.0	41.9	121				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912C96

ANALYTICAL QC SUMMARY REPORT

BatchID: 289439

Sample ID: 1912D06-002BMS	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9329403							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5 29.15 0 100.0 29.2 17.8 120

Sample ID: 1912D06-002BMSD	Client ID:	Units: ug/L	Prep Date: 12/13/2019	Run No: 413812							
SampleType: MSD	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 289439	Analysis Date: 12/13/2019	Seq No: 9329499							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	66.21	10	100.0		66.2	50.3	123	63.42	4.30	21.7	
2-Chlorophenol	70.72	10	100.0		70.7	50.8	120	62.96	11.6	24.8	
4-Chloro-3-methylphenol	71.42	10	100.0		71.4	47.1	124	68.83	3.69	20.7	
4-Nitrophenol	35.29	25	100.0		35.3	21.8	120	29.68	17.3	38.3	
Acenaphthene	78.74	10	100.0		78.7	44.7	119	77.18	2.00	20.5	
N-Nitrosodi-n-propylamine	87.15	10	100.0		87.2	52.1	120	82.35	5.66	29.2	
Pentachlorophenol	52.57	25	100.0		52.6	40	120	47.06	11.1	30.7	
Phenol	31.98	10	100.0		32.0	31.5	120	28.48	11.6	28.5	
Pyrene	87.70	10	100.0		87.7	51	129	87.09	0.698	24.8	
Surr: 2,4,6-Tribromophenol	63.03	0	100.0		63.0	47	127	59.45	0	0	
Surr: 2-Fluorobiphenyl	38.41	0	50.00		76.8	47.4	119	35.26	0	0	
Surr: 2-Fluorophenol	44.17	0	100.0		44.2	26.2	120	33.04	0	0	
Surr: 4-Terphenyl-d14	27.07	0	50.00		54.1	45	133	26.64	0	0	
Surr: Nitrobenzene-d5	42.02	0	50.00		84.0	41.9	121	37.51	0	0	
Surr: Phenol-d5	37.33	0	100.0		37.3	17.8	120	29.15	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
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	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 20, 2019

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth Co.

Dear Charles Adams:

Order No: 1912G34

Analytical Environmental Services, Inc. received 31 samples on 12/13/2019 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/19-06/30/20.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling
Project Manager



CHAIN OF CUSTODY

COMPANY: ACC		ADDRESS:					ANALYSIS REQUESTED								Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers																																															
PHONE: (770) 594-5998		EMAIL:					<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 5px;">APP I METN</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 5px;">APP I VOC</div> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td colspan="24">PRESERVATION (see codes)</td></tr> </table> </div>																																	PRESERVATION (see codes)																							
PRESERVATION (see codes)																																																															
SAMPLED BY: OF		SIGNATURE:																																																													
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)																					REMARKS																																				
1	GWC-8A	12-12-19	0920	✓		GW	1																				1																																				
2	GWC-8	12-12-19	0925	✓		GW	1																					1																																			
3	GWA-7	12-12-19	0935	✓		GW	1																					1																																			
4	GWC-7	12-12-19	0945	✓		GW	1																					1																																			
5	GWC-23A	12-12-19	0950	✓		GW	1																					1																																			
6	GWC-23	12-12-19	0955	✓		GW	1																					1																																			
7	GWC-22	12-12-19	1000	✓		GW	1																					1																																			
8	GWC-13	12-12-19	1005	✓		GW	1																					1																																			
9	PHI-GWB-2	12-12-19	1050	✓		GW	X	2																			2																																				
10	GWC-11	12-12-19	1120	✓		GW		2																			2																																				
11	FIELD BLANK 2	12/12/19	1235	✓		W	1	2																			3																																				
12	PHI-GWA-3	12/12/19	1300	✓		GW	1	2																			3																																				
13	GWC-9	12/13/19	0930	✓		GW	1																				1																																				
14	GWC-10A	12/13/19	0935	✓		GW	1																				1																																				

RELINQUISHED BY: DATE/TIME: 12-13-19 1130		RECEIVED BY: DATE/TIME: 12/13/19 1130		PROJECT INFORMATION				RECEIPT	
1.	SPECIAL INSTRUCTIONS/COMMENTS: SHIPMENT METHOD OUT: / / VIA: IN: client / / VIA: other: FedEx UPS US mail courier			PROJECT NAME: Forsyth Co				Total # of Containers	
2.				PROJECT #:				Turnaround Time (TAT) Request	
3.				SITE ADDRESS:				<input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other	
SEND REPORT TO:		INVOICE TO (IF DIFFERENT FROM ABOVE):		QUOTE #:		PO#:		STATE PROGRAM (if any): _____ E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.



CHAIN OF CUSTODY

COMPANY: <u>ACC</u>		ADDRESS: <u>1150 Northmeadow Pkwy. Roswell, GA 30076</u>				ANALYSIS REQUESTED								Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers																														
PHONE: <u>770-594-5998</u>		EMAIL: <u>charles.adams@atlee.net</u>				<table border="1"> <tr> <td>App I VOC</td> <td>App I Metals</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <th colspan="15">PRESERVATION (see codes)</th> </tr> </table>										App I VOC	App I Metals														PRESERVATION (see codes)														
App I VOC	App I Metals																																												
PRESERVATION (see codes)																																													
SAMPLED BY: <u>H. Auld</u>		SIGNATURE: <u>[Signature]</u>												REMARKS																															
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)								REMARKS	Number of Containers																													
		DATE	TIME																																										
1	GWC-4A	12-12-19	0940	✓		GW											1																												
2	IMW-2	12-12-19	0945	✓		GW										Butle ID: "GW-16A"	1																												
3	PHI-GWC-1	12-12-19	1005	✓		GW											1																												
4	PHI-GWC-4	12-12-19														No Sample																													
5	GWC-10A	12-12-19	1050	✓		GW	2										2																												
6	GWC-10	12-12-19	1110	✓		GW	2										2																												
7	GWC-9	12-12-19	1130	✓		GW	2										2																												
8	PHI-GWB-2	12-13-19	0910	✓		GW											1																												
9	GWC-10	12-13-19	0940	✓		GW											1																												
10	GWC-11	12-13-19	0945	✓		GW											1																												
11	TRIP BLANK	/	/	✓		W	2										2																												
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RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME: <u>12-13-19 1130</u>		RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>12/13/19 1130</u>		PROJECT INFORMATION								RECEIPT																													
1.				1.				PROJECT NAME: <u>Forsyth Co.</u>								Total # of Containers																													
2.				2.				PROJECT #:								Turnaround Time (TAT) Request																													
3.				3.				SITE ADDRESS:								<input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																													
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO:								STATE PROGRAM (if any): _____																													
				OUT: / / VIA: IN: <u>client</u> FedEx UPS US mail courier other: _____				INVOICE TO (IF DIFFERENT FROM ABOVE):								E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																													
								QUOTE #: _____ PO#: _____								DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																													

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST = Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None



CHAIN OF CUSTODY

Work Order: 1912 G34

Date: _____ Page _____ of _____

COMPANY: <u>ACC</u>		ADDRESS: <u>1150 North ... #100 ...</u>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers								
PHONE: <u>(770) 594-5948</u>		EMAIL:					TOL	Chloride	Cyanide	SW Metals	COD	App I VOC														
SAMPLED BY: <u>HA/OF</u>		SIGNATURE:					PRESERVATION (see codes)																			
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS									
		DATE	TIME				H2O2	I	NO3	H2S	NO2	HC														
1	SWC-2	12/12/19	1150	✓		SW	2	1	1	1	1													6		
2	SWC-3	12/12/19	1210	✓		SW	2	1	1	1	1													6		
3	SWA-2	12/12/19	1225	✓		SW	2	1	1	1	1													6		
4	SWC-6 SWC-4 OF 12-12-19	12-12-19	1150	✓		SW	2	1	1	1	1	2												8		
5	SWC-5	12-12-19	1205	✓		SW	2	1	1	1	1													6		
6	SWC-1	12-12-19	1225	✓		SW	2	1	1	1	1													6		
7	SWC-4	12-12-19	1245	✓		SW	2	1	1	1	1	2												8		
8																										
9																										
10																										
11																										
12																										
13																										
14																										

RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>12-12-19 1130</u>		RECEIVED BY: <u>[Signature]</u> DATE/TIME: <u>12/12/19 1130</u>		PROJECT INFORMATION				RECEIPT			
1.		2.		PROJECT NAME: <u>Firsyth Co</u>				Total # of Containers			
3.		3.		PROJECT #:				Turnaround Time (TAT) Request <input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SITE ADDRESS:							
		OUT: / / VIA:		SEND REPORT TO:				STATE PROGRAM (if any): _____ E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>			
		IN: <u>client</u> / / VIA:		INVOICE TO (IF DIFFERENT FROM ABOVE):							
		FedEx UPS US mail courier		QUOTE #:				DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>			
		other: _____		PO#:							

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Client: Atlantic Coast Consulting, Inc.

Project: Forsyth Co.

Lab ID: 1912G34

Case Narrative

Metals Analysis by Method SW6020:

LCS-289579 recovery for Be was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Analytical Environmental Services, Inc

Date: 20-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8A
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:20:00 AM
Lab ID: 1912G34-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:10	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:10	DK
Barium	0.0560	0.0200		mg/L	289579	1	12/17/2019 20:10	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:10	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:10	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:10	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:10	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:10	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:10	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:10	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:10	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:10	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:10	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:10	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 20:10	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-8
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:25:00 AM
Lab ID: 1912G34-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:13	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:13	DK
Barium	0.0286	0.0200		mg/L	289579	1	12/17/2019 20:13	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:13	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:13	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:13	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:13	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:13	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:13	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:13	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:13	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:13	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:13	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:13	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 20:13	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWA-2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:35:00 AM
Lab ID: 1912G34-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:17	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:17	DK
Barium	0.0395	0.0200		mg/L	289579	1	12/17/2019 20:17	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:17	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:17	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:17	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:17	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:17	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:17	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:17	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:17	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:17	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:17	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:17	DK
Zinc	0.0259	0.0200		mg/L	289579	1	12/17/2019 20:17	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-7
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:45:00 AM
Lab ID: 1912G34-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:20	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:20	DK
Barium	0.0499	0.0200		mg/L	289579	1	12/17/2019 20:20	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:20	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:20	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:20	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:20	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:20	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:20	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:20	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:20	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:20	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:20	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:20	DK
Zinc	0.0422	0.0200		mg/L	289579	1	12/17/2019 20:20	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-23A
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:50:00 AM
Lab ID: 1912G34-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:24	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:24	DK
Barium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:24	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:24	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:24	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:24	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:24	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:24	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:24	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:24	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:24	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:24	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:24	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:24	DK
Zinc	0.0316	0.0200		mg/L	289579	1	12/17/2019 20:24	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-23
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:55:00 AM
Lab ID: 1912G34-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:28	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:28	DK
Barium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:28	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:28	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:28	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:28	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:28	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:28	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:28	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:28	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:28	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:28	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:28	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:28	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 20:28	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-22
Project Name: Forsyth Co.	Collection Date: 12/12/2019 10:00:00 AM
Lab ID: 1912G34-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:31	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:31	DK
Barium	0.0215	0.0200		mg/L	289579	1	12/17/2019 20:31	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:31	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:31	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:31	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:31	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:31	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:31	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:31	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:31	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:31	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:31	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:31	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 20:31	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-13
Project Name: Forsyth Co.	Collection Date: 12/12/2019 10:05:00 AM
Lab ID: 1912G34-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:35	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:35	DK
Barium	0.0327	0.0200		mg/L	289579	1	12/17/2019 20:35	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:35	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:35	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:35	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:35	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:35	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:35	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:35	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:35	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:35	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:35	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:35	DK
Zinc	0.0236	0.0200		mg/L	289579	1	12/17/2019 20:35	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWB-2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 10:50:00 AM
Lab ID: 1912G34-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 13:27	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 13:27	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 13:27	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 13:27	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 13:27	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 13:27	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 13:27	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 13:27	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 13:27	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 13:27	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWB-2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 10:50:00 AM
Lab ID: 1912G34-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 13:27	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 13:27	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 13:27	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 13:27	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 13:27	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 13:27	NP
Surr: Dibromofluoromethane	109	76.4-125		%REC	289750	1	12/18/2019 13:27	NP
Surr: Toluene-d8	100	78.3-116		%REC	289750	1	12/18/2019 13:27	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Lab ID: 1912G34-010

Client Sample ID: GWC-11
Collection Date: 12/12/2019 11:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 13:50	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 13:50	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 13:50	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 13:50	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 13:50	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 13:50	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 13:50	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 13:50	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 13:50	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 13:50	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-11
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:20:00 AM
Lab ID: 1912G34-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 13:50	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 13:50	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 13:50	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 13:50	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 13:50	NP
Surr: 4-Bromofluorobenzene	105	64-125		%REC	289750	1	12/18/2019 13:50	NP
Surr: Dibromofluoromethane	110	76.4-125		%REC	289750	1	12/18/2019 13:50	NP
Surr: Toluene-d8	100	78.3-116		%REC	289750	1	12/18/2019 13:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: FIELD BLANK 2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:35:00 PM
Lab ID: 1912G34-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 11:33	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 11:33	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 11:33	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 11:33	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 11:33	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 11:33	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 11:33	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 11:33	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 11:33	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 11:33	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: FIELD BLANK 2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:35:00 PM
Lab ID: 1912G34-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 11:33	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 11:33	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 11:33	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 11:33	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 11:33	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 11:33	NP
Surr: Dibromofluoromethane	108	76.4-125		%REC	289750	1	12/18/2019 11:33	NP
Surr: Toluene-d8	101	78.3-116		%REC	289750	1	12/18/2019 11:33	NP
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 19:37	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 19:37	DK
Barium	BRL	0.0200		mg/L	289579	1	12/17/2019 19:37	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 19:37	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 19:37	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 19:37	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 19:37	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 19:37	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 19:37	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 19:37	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 19:37	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 19:37	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 19:37	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 19:37	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 19:37	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-3
Project Name: Forsyth Co.	Collection Date: 12/12/2019 1:00:00 PM
Lab ID: 1912G34-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 14:13	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 14:13	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 14:13	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 14:13	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 14:13	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 14:13	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 14:13	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 14:13	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 14:13	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 14:13	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWA-3
Project Name: Forsyth Co.	Collection Date: 12/12/2019 1:00:00 PM
Lab ID: 1912G34-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 14:13	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 14:13	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 14:13	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 14:13	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 14:13	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 14:13	NP
Surr: Dibromofluoromethane	110	76.4-125		%REC	289750	1	12/18/2019 14:13	NP
Surr: Toluene-d8	100	78.3-116		%REC	289750	1	12/18/2019 14:13	NP
APPENDIX I METALS SW6020B			(SW3005A)					
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:53	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:53	DK
Barium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:53	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:53	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:53	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:53	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:53	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:53	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:53	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:53	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:53	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:53	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:53	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:53	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 20:53	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-9
Project Name: Forsyth Co.	Collection Date: 12/13/2019 9:30:00 AM
Lab ID: 1912G34-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 20:56	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 20:56	DK
Barium	0.0679	0.0200		mg/L	289579	1	12/17/2019 20:56	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 20:56	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 20:56	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:56	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 20:56	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 20:56	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 20:56	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 20:56	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 20:56	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 20:56	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 20:56	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 20:56	DK
Zinc	0.0780	0.0200		mg/L	289579	1	12/17/2019 20:56	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-10A
Project Name: Forsyth Co.	Collection Date: 12/13/2019 9:35:00 AM
Lab ID: 1912G34-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 21:00	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 21:00	DK
Barium	0.0352	0.0200		mg/L	289579	1	12/18/2019 23:40	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 21:00	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 21:00	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:00	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 21:00	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 21:00	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 21:00	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 21:00	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:00	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 21:00	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 21:00	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:00	DK
Zinc	0.0312	0.0200		mg/L	289579	1	12/17/2019 21:00	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-4A
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:40:00 AM
Lab ID: 1912G34-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 21:04	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 21:04	DK
Barium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:04	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 21:04	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 21:04	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:04	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 21:04	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 21:04	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 21:04	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 21:04	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:04	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 21:04	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 21:04	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:04	DK
Zinc	0.0500	0.0200		mg/L	289579	1	12/17/2019 21:04	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: AMW-2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 9:45:00 AM
Lab ID: 1912G34-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 21:07	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 21:07	DK
Barium	0.0267	0.0200		mg/L	289579	1	12/17/2019 21:07	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 21:07	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 21:07	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:07	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 21:07	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 21:07	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 21:07	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 21:07	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:07	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 21:07	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 21:07	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:07	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 21:07	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWC-1
Project Name: Forsyth Co.	Collection Date: 12/12/2019 10:05:00 AM
Lab ID: 1912G34-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 21:11	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 21:11	DK
Barium	0.0437	0.0200		mg/L	289579	1	12/17/2019 21:11	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 21:11	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 21:11	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:11	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 21:11	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 21:11	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 21:11	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 21:11	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:11	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 21:11	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 21:11	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:11	DK
Zinc	BRL	0.0200		mg/L	289579	1	12/17/2019 21:11	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-10A
Project Name: Forsyth Co.	Collection Date: 12/12/2019 10:50:00 AM
Lab ID: 1912G34-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 14:36	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 14:36	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 14:36	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 14:36	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 14:36	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 14:36	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 14:36	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 14:36	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 14:36	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 14:36	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-10A
Project Name: Forsyth Co.	Collection Date: 12/12/2019 10:50:00 AM
Lab ID: 1912G34-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 14:36	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 14:36	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 14:36	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 14:36	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 14:36	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 14:36	NP
Surr: Dibromofluoromethane	110	76.4-125		%REC	289750	1	12/18/2019 14:36	NP
Surr: Toluene-d8	102	78.3-116		%REC	289750	1	12/18/2019 14:36	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-10
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:10:00 AM
Lab ID: 1912G34-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 15:46	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 15:46	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 15:46	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 15:46	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 15:46	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 15:46	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 15:46	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 15:46	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 15:46	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 15:46	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-10
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:10:00 AM
Lab ID: 1912G34-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 15:46	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 15:46	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 15:46	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 15:46	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 15:46	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 15:46	NP
Surr: Dibromofluoromethane	114	76.4-125		%REC	289750	1	12/18/2019 15:46	NP
Surr: Toluene-d8	101	78.3-116		%REC	289750	1	12/18/2019 15:46	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-9
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:30:00 AM
Lab ID: 1912G34-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 16:09	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 16:09	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 16:09	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 16:09	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 16:09	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 16:09	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 16:09	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 16:09	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 16:09	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 16:09	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-9
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:30:00 AM
Lab ID: 1912G34-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 16:09	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 16:09	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 16:09	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 16:09	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 16:09	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 16:09	NP
Surr: Dibromofluoromethane	111	76.4-125		%REC	289750	1	12/18/2019 16:09	NP
Surr: Toluene-d8	101	78.3-116		%REC	289750	1	12/18/2019 16:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: PH1-GWB-2
Project Name: Forsyth Co.	Collection Date: 12/13/2019 9:10:00 AM
Lab ID: 1912G34-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 21:14	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 21:14	DK
Barium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:14	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 21:14	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 21:14	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:14	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 21:14	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 21:14	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 21:14	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 21:14	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:14	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 21:14	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 21:14	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:14	DK
Zinc	0.0383	0.0200		mg/L	289579	1	12/17/2019 21:14	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-10
Project Name: Forsyth Co.	Collection Date: 12/13/2019 9:40:00 AM
Lab ID: 1912G34-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 21:18	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 21:18	DK
Barium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:18	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 21:18	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 21:18	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:18	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 21:18	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 21:18	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 21:18	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 21:18	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:18	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 21:18	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 21:18	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:18	DK
Zinc	0.0864	0.0200		mg/L	289579	1	12/17/2019 21:18	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-11
Project Name: Forsyth Co.	Collection Date: 12/13/2019 9:45:00 AM
Lab ID: 1912G34-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
SW6020B								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	289579	1	12/17/2019 21:22	DK
Arsenic	BRL	0.0100		mg/L	289579	1	12/17/2019 21:22	DK
Barium	0.0359	0.0200		mg/L	289579	1	12/17/2019 21:22	DK
Beryllium	BRL	0.00300		mg/L	289579	1	12/17/2019 21:22	DK
Cadmium	BRL	0.00500		mg/L	289579	1	12/17/2019 21:22	DK
Chromium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:22	DK
Cobalt	BRL	0.0400		mg/L	289579	1	12/17/2019 21:22	DK
Copper	BRL	0.0200		mg/L	289579	1	12/17/2019 21:22	DK
Lead	BRL	0.0150		mg/L	289579	1	12/17/2019 21:22	DK
Nickel	BRL	0.0200		mg/L	289579	1	12/17/2019 21:22	DK
Selenium	BRL	0.0100		mg/L	289579	1	12/17/2019 21:22	DK
Silver	BRL	0.0100		mg/L	289579	1	12/17/2019 21:22	DK
Thallium	BRL	0.00200		mg/L	289579	1	12/17/2019 21:22	DK
Vanadium	BRL	0.0200		mg/L	289579	1	12/17/2019 21:22	DK
Zinc	0.0233	0.0200		mg/L	289579	1	12/17/2019 21:22	DK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth Co.	Collection Date: 12/13/2019
Lab ID: 1912G34-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 11:56	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 11:56	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 11:56	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 11:56	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 11:56	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 11:56	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 11:56	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 11:56	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 11:56	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 11:56	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth Co.	Collection Date: 12/13/2019
Lab ID: 1912G34-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 11:56	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 11:56	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 11:56	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 11:56	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 11:56	NP
Surr: 4-Bromofluorobenzene	105	64-125		%REC	289750	1	12/18/2019 11:56	NP
Surr: Dibromofluoromethane	108	76.4-125		%REC	289750	1	12/18/2019 11:56	NP
Surr: Toluene-d8	101	78.3-116		%REC	289750	1	12/18/2019 11:56	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:50:00 AM
Lab ID: 1912G34-025	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R414142	1	12/18/2019 03:21	SK
Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	289775	1	12/19/2019 12:59	KV
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	289749	1	12/18/2019 17:05	EH
Inorganic Anions by IC E300.0								
Chloride	2.47	0.500		mg/L	R414288	1	12/18/2019 18:29	AS
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R414375	1	12/19/2019 20:30	CS
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	289585	1	12/19/2019 12:22	AJ
Barium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:22	AJ
Cadmium	BRL	0.0050		mg/L	289585	1	12/19/2019 12:22	AJ
Chromium	BRL	0.0100		mg/L	289585	1	12/19/2019 12:22	AJ
Lead	BRL	0.0100		mg/L	289585	1	12/19/2019 12:22	AJ
Nickel	BRL	0.0200		mg/L	289585	1	12/19/2019 12:22	AJ
Selenium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:22	AJ
Silver	BRL	0.0100		mg/L	289585	1	12/19/2019 12:22	AJ
Zinc	BRL	0.0200		mg/L	289585	1	12/19/2019 12:22	AJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-3
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:10:00 PM
Lab ID: 1912G34-026	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R414142	1	12/18/2019 04:37	SK
Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	289775	1	12/19/2019 13:05	KV
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	289749	1	12/18/2019 17:09	EH
Inorganic Anions by IC E300.0								
Chloride	3.00	0.500		mg/L	R414288	1	12/18/2019 12:50	AS
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R414375	1	12/19/2019 20:30	CS
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	289585	1	12/19/2019 12:24	AJ
Barium	0.0294	0.0200		mg/L	289585	1	12/19/2019 12:24	AJ
Cadmium	BRL	0.0050		mg/L	289585	1	12/19/2019 12:24	AJ
Chromium	BRL	0.0100		mg/L	289585	1	12/19/2019 12:24	AJ
Lead	BRL	0.0100		mg/L	289585	1	12/19/2019 12:24	AJ
Nickel	BRL	0.0200		mg/L	289585	1	12/19/2019 12:24	AJ
Selenium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:24	AJ
Silver	BRL	0.0100		mg/L	289585	1	12/19/2019 12:24	AJ
Zinc	BRL	0.0200		mg/L	289585	1	12/19/2019 12:24	AJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWA-2
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:25:00 PM
Lab ID: 1912G34-027	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R414142	1	12/18/2019 04:55	SK
Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	289775	1	12/19/2019 13:08	KV
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	289749	1	12/18/2019 17:13	EH
Inorganic Anions by IC E300.0								
Chloride	2.52	0.500		mg/L	R414288	1	12/18/2019 13:06	AS
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R414375	1	12/19/2019 20:30	CS
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	289585	1	12/19/2019 12:27	AJ
Barium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:27	AJ
Cadmium	BRL	0.0050		mg/L	289585	1	12/19/2019 12:27	AJ
Chromium	BRL	0.0100		mg/L	289585	1	12/19/2019 12:27	AJ
Lead	BRL	0.0100		mg/L	289585	1	12/19/2019 12:27	AJ
Nickel	BRL	0.0200		mg/L	289585	1	12/19/2019 12:27	AJ
Selenium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:27	AJ
Silver	BRL	0.0100		mg/L	289585	1	12/19/2019 12:27	AJ
Zinc	BRL	0.0200		mg/L	289585	1	12/19/2019 12:27	AJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-6
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:50:00 AM
Lab ID: 1912G34-028	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.16	1.00		mg/L	R414142	1	12/18/2019 05:13	SK
Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	289775	1	12/19/2019 13:11	KV
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	289749	1	12/18/2019 17:29	EH
Inorganic Anions by IC E300.0								
Chloride	13.2	0.500		mg/L	R414288	1	12/18/2019 18:45	AS
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R414375	1	12/19/2019 20:30	CS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 16:35	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 16:35	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 16:35	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 16:35	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 16:35	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 16:35	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 16:35	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 16:35	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-6
Project Name: Forsyth Co.	Collection Date: 12/12/2019 11:50:00 AM
Lab ID: 1912G34-028	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
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APPENDIX I VOLATILE ORGANICS SW8260D

(SW5030B)

Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
cis-1,2-Dichloroethene	5.2	2.0		ug/L	289750	1	12/18/2019 16:35	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 16:35	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 16:35	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 16:35	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 16:35	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 16:35	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 16:35	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 16:35	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 16:35	NP
Surr: Dibromofluoromethane	115	76.4-125		%REC	289750	1	12/18/2019 16:35	NP
Surr: Toluene-d8	103	78.3-116		%REC	289750	1	12/18/2019 16:35	NP

METALS, TOTAL SW6010D

(SW3010A)

Arsenic	BRL	0.0500		mg/L	289585	1	12/19/2019 12:29	AJ
Barium	0.0313	0.0200		mg/L	289585	1	12/19/2019 12:29	AJ
Cadmium	BRL	0.0050		mg/L	289585	1	12/19/2019 12:29	AJ
Chromium	BRL	0.0100		mg/L	289585	1	12/19/2019 12:29	AJ
Lead	BRL	0.0100		mg/L	289585	1	12/19/2019 12:29	AJ
Nickel	BRL	0.0200		mg/L	289585	1	12/19/2019 12:29	AJ
Selenium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:29	AJ
Silver	BRL	0.0100		mg/L	289585	1	12/19/2019 12:29	AJ
Zinc	BRL	0.0200		mg/L	289585	1	12/19/2019 12:29	AJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Dec-19

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-5
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:05:00 PM
Lab ID: 1912G34-029	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	3.07	1.00		mg/L	R414142	1	12/18/2019 05:31	SK
Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	289775	1	12/19/2019 13:13	KV
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	289749	1	12/18/2019 17:33	EH
Inorganic Anions by IC E300.0								
Chloride	28.2	5.00		mg/L	R414288	10	12/18/2019 17:25	AS
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R414375	1	12/19/2019 20:30	CS
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	289585	1	12/19/2019 15:28	AJ
Barium	0.0421	0.0200		mg/L	289585	1	12/19/2019 15:28	AJ
Cadmium	BRL	0.0050		mg/L	289585	1	12/19/2019 15:28	AJ
Chromium	BRL	0.0100		mg/L	289585	1	12/19/2019 15:28	AJ
Lead	BRL	0.0100		mg/L	289585	1	12/19/2019 15:28	AJ
Nickel	BRL	0.0200		mg/L	289585	1	12/19/2019 15:28	AJ
Selenium	BRL	0.0200		mg/L	289585	1	12/19/2019 15:28	AJ
Silver	BRL	0.0100		mg/L	289585	1	12/19/2019 15:28	AJ
Zinc	BRL	0.0200		mg/L	289585	1	12/19/2019 15:28	AJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-1
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:25:00 PM
Lab ID: 1912G34-030	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R414142	1	12/18/2019 05:49	SK
Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	289775	1	12/19/2019 13:17	KV
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	289749	1	12/18/2019 17:37	EH
Inorganic Anions by IC E300.0								
Chloride	7.35	0.500		mg/L	R414288	1	12/18/2019 15:32	AS
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R414375	1	12/19/2019 20:30	CS
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	289585	1	12/19/2019 12:40	AJ
Barium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:40	AJ
Cadmium	BRL	0.0050		mg/L	289585	1	12/19/2019 12:40	AJ
Chromium	BRL	0.0100		mg/L	289585	1	12/19/2019 12:40	AJ
Lead	BRL	0.0100		mg/L	289585	1	12/19/2019 12:40	AJ
Nickel	BRL	0.0200		mg/L	289585	1	12/19/2019 12:40	AJ
Selenium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:40	AJ
Silver	BRL	0.0100		mg/L	289585	1	12/19/2019 12:40	AJ
Zinc	BRL	0.0200		mg/L	289585	1	12/19/2019 12:40	AJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-4
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:45:00 PM
Lab ID: 1912G34-031	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R414142	1	12/18/2019 06:06	SK
Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	289775	1	12/19/2019 13:21	KV
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	289749	1	12/18/2019 17:41	EH
Inorganic Anions by IC E300.0								
Chloride	3.03	0.500		mg/L	R414288	1	12/18/2019 14:12	AS
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R414375	1	12/19/2019 20:30	CS
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,1-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,1-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,2,3-Trichloropropane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	289750	1	12/18/2019 16:55	NP
1,2-Dibromoethane	BRL	1.0		ug/L	289750	1	12/18/2019 16:55	NP
1,2-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
1,2-Dichloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,2-Dichloropropane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
1,4-Dichlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
2-Butanone	BRL	100		ug/L	289750	1	12/18/2019 16:55	NP
2-Hexanone	BRL	50		ug/L	289750	1	12/18/2019 16:55	NP
4-Methyl-2-pentanone	BRL	50		ug/L	289750	1	12/18/2019 16:55	NP
Acetone	BRL	100		ug/L	289750	1	12/18/2019 16:55	NP
Acrylonitrile	BRL	50		ug/L	289750	1	12/18/2019 16:55	NP
Benzene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Bromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Bromodichloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Bromoform	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Bromomethane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Carbon disulfide	BRL	5.0		ug/L	289750	1	12/18/2019 16:55	NP
Carbon tetrachloride	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Chlorobenzene	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-4
Project Name: Forsyth Co.	Collection Date: 12/12/2019 12:45:00 PM
Lab ID: 1912G34-031	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
Chloroethane	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Chloroform	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Chloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Dibromochloromethane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Dibromomethane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Ethylbenzene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Iodomethane	BRL	100		ug/L	289750	1	12/18/2019 16:55	NP
Methylene chloride	BRL	5.0		ug/L	289750	1	12/18/2019 16:55	NP
Styrene	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Tetrachloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Toluene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	289750	1	12/18/2019 16:55	NP
Trichloroethene	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Trichlorofluoromethane	BRL	10		ug/L	289750	1	12/18/2019 16:55	NP
Vinyl acetate	BRL	100		ug/L	289750	1	12/18/2019 16:55	NP
Vinyl chloride	BRL	2.0		ug/L	289750	1	12/18/2019 16:55	NP
Xylenes, Total	BRL	5.0		ug/L	289750	1	12/18/2019 16:55	NP
Surr: 4-Bromofluorobenzene	106	64-125		%REC	289750	1	12/18/2019 16:55	NP
Surr: Dibromofluoromethane	113	76.4-125		%REC	289750	1	12/18/2019 16:55	NP
Surr: Toluene-d8	102	78.3-116		%REC	289750	1	12/18/2019 16:55	NP
METALS, TOTAL SW6010D				(SW3010A)				
Arsenic	BRL	0.0500		mg/L	289585	1	12/19/2019 12:42	AJ
Barium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:42	AJ
Cadmium	BRL	0.0050		mg/L	289585	1	12/19/2019 12:42	AJ
Chromium	BRL	0.0100		mg/L	289585	1	12/19/2019 12:42	AJ
Lead	BRL	0.0100		mg/L	289585	1	12/19/2019 12:42	AJ
Nickel	BRL	0.0200		mg/L	289585	1	12/19/2019 12:42	AJ
Selenium	BRL	0.0200		mg/L	289585	1	12/19/2019 12:42	AJ
Silver	BRL	0.0100		mg/L	289585	1	12/19/2019 12:42	AJ
Zinc	BRL	0.0200		mg/L	289585	1	12/19/2019 12:42	AJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289579

Sample ID: MB-289579	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414173							
Sample Type: MBLK	TestCode: APPENDIX I METALS SW6020B	BatchID: 289579	Analysis Date: 12/17/2019	Seq No: 9338149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	0.00600									
Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Beryllium	BRL	0.00300									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0400									
Copper	BRL	0.0200									
Lead	BRL	0.0150									
Nickel	BRL	0.0200									
Selenium	BRL	0.0100									
Silver	BRL	0.0100									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: LCS-289579	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414173							
Sample Type: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289579	Analysis Date: 12/17/2019	Seq No: 9338150							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1062	0.00600	0.1000		106	80	120				
Arsenic	0.1115	0.0100	0.1000		112	80	120				
Barium	0.1105	0.0200	0.1000		111	80	120				
Beryllium	0.1215	0.00400	0.1000		122	80	120				S
Cadmium	0.1094	0.00500	0.1000		109	80	120				
Chromium	0.1126	0.0200	0.1000		113	80	120				
Cobalt	0.1126	0.0500	0.1000		113	80	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289579

Sample ID: LCS-289579	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414173							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289579	Analysis Date: 12/17/2019	Seq No: 9338150							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1122	0.0200	0.1000		112	80	120				
Lead	0.1059	0.0100	0.1000		106	80	120				
Nickel	0.1167	0.0400	0.1000		117	80	120				
Selenium	0.1028	0.0500	0.1000		103	80	120				
Silver	0.01167	0.00500	0.0100		117	80	120				
Thallium	0.1091	0.00200	0.1000		109	80	120				
Vanadium	0.1134	0.0500	0.1000		113	80	120				
Zinc	0.1171	0.0200	0.1000		117	80	120				

Sample ID: 1912G34-011BMS	Client ID: FIELD BLANK 2	Units: mg/L	Prep Date: 12/16/2019	Run No: 414173							
SampleType: MS	TestCode: APPENDIX I METALS SW6020B	BatchID: 289579	Analysis Date: 12/17/2019	Seq No: 9338152							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1035	0.00600	0.1000		104	75	125				
Arsenic	0.1128	0.0100	0.1000		113	75	125				
Barium	0.1107	0.0200	0.1000		111	75	125				
Beryllium	0.1196	0.00400	0.1000		120	75	125				
Cadmium	0.1100	0.00500	0.1000		110	75	125				
Chromium	0.1141	0.0200	0.1000		114	75	125				
Cobalt	0.1113	0.0500	0.1000		111	75	125				
Copper	0.1095	0.0200	0.1000		109	75	125				
Lead	0.1064	0.0100	0.1000		106	75	125				
Nickel	0.1157	0.0400	0.1000		116	75	125				
Selenium	0.1060	0.0500	0.1000		106	75	125				
Silver	0.01140	0.00500	0.0100		114	75	125				
Thallium	0.1090	0.00200	0.1000	0.0004138	109	75	125				
Vanadium	0.1124	0.0500	0.1000		112	75	125				
Zinc	0.1150	0.0200	0.1000		115	75	125				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth Co.
 Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289579

Sample ID: 1912G34-011BMSD	Client ID: FIELD BLANK 2	Units: mg/L	Prep Date: 12/16/2019	Run No: 414173
SampleType: MSD	TestCode: APPENDIX I METALS SW6020B	BatchID: 289579	Analysis Date: 12/17/2019	Seq No: 9338153

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1048	0.00600	0.1000		105	75	125	0.1035	1.17	20	
Arsenic	0.1112	0.0100	0.1000		111	75	125	0.1128	1.40	20	
Barium	0.1096	0.0200	0.1000		110	75	125	0.1107	1.00	20	
Beryllium	0.1164	0.00400	0.1000		116	75	125	0.1196	2.66	20	
Cadmium	0.1064	0.00500	0.1000		106	75	125	0.1100	3.29	20	
Chromium	0.1124	0.0200	0.1000		112	75	125	0.1141	1.50	20	
Cobalt	0.1116	0.0500	0.1000		112	75	125	0.1113	0.243	20	
Copper	0.1120	0.0200	0.1000		112	75	125	0.1095	2.30	20	
Lead	0.1079	0.0100	0.1000		108	75	125	0.1064	1.47	20	
Nickel	0.1156	0.0400	0.1000		116	75	125	0.1157	0.031	20	
Selenium	0.1031	0.0500	0.1000		103	75	125	0.1060	2.82	20	
Silver	0.01145	0.00500	0.0100		115	75	125	0.01140	0.411	20	
Thallium	0.1093	0.00200	0.1000	0.0004138	109	75	125	0.1090	0.296	20	
Vanadium	0.1139	0.0500	0.1000		114	75	125	0.1124	1.39	20	
Zinc	0.1136	0.0200	0.1000		114	75	125	0.1150	1.22	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289585

Sample ID: MB-289585	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414380							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 289585	Analysis Date: 12/19/2019	Seq No: 9343456							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: LCS-289585	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414380							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 289585	Analysis Date: 12/19/2019	Seq No: 9343467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.004	0.0500	1.000		100	80	120				
Barium	0.9916	0.0200	1.000		99.2	80	120				
Cadmium	0.9956	0.0050	1.000		99.6	80	120				
Chromium	0.9981	0.0100	1.000		99.8	80	120				
Lead	0.9983	0.0100	1.000		99.8	80	120				
Nickel	1.002	0.0200	1.000		100	80	120				
Selenium	0.9943	0.0200	1.000		99.4	80	120				
Silver	0.1000	0.0100	0.1000		100	80	120				
Zinc	0.9965	0.0200	1.000		99.6	80	120				

Sample ID: 1912G10-005FMS	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414380							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 289585	Analysis Date: 12/19/2019	Seq No: 9343474							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289585

Sample ID: 1912G10-005FMS	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414380							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 289585	Analysis Date: 12/19/2019	Seq No: 9343474							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.9792	0.0500	1.000	0.03199	94.7	75	125				
Barium	0.9197	0.0200	1.000	0.09031	82.9	75	125				
Cadmium	0.9283	0.0050	1.000		92.8	75	125				
Chromium	0.8540	0.0100	1.000		85.4	75	125				
Lead	0.8490	0.0100	1.000		84.9	75	125				
Nickel	0.8443	0.0200	1.000	0.006490	83.8	75	125				
Selenium	0.9383	0.0200	1.000		93.8	75	125				
Silver	0.09439	0.0100	0.1000		94.4	75	125				
Zinc	0.8288	0.0200	1.000		82.9	75	125				

Sample ID: 1912G10-005FMSD	Client ID:	Units: mg/L	Prep Date: 12/16/2019	Run No: 414380							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 289585	Analysis Date: 12/19/2019	Seq No: 9343477							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.008	0.0500	1.000	0.03199	97.6	75	125	0.9792	2.91	20	
Barium	0.9498	0.0200	1.000	0.09031	85.9	75	125	0.9197	3.22	20	
Cadmium	0.9615	0.0050	1.000		96.2	75	125	0.9283	3.51	20	
Chromium	0.8822	0.0100	1.000		88.2	75	125	0.8540	3.26	20	
Lead	0.8724	0.0100	1.000		87.2	75	125	0.8490	2.73	20	
Nickel	0.8720	0.0200	1.000	0.006490	86.6	75	125	0.8443	3.23	20	
Selenium	0.9655	0.0200	1.000		96.5	75	125	0.9383	2.85	20	
Silver	0.09751	0.0100	0.1000		97.5	75	125	0.09439	3.25	20	
Zinc	0.8609	0.0200	1.000		86.1	75	125	0.8288	3.80	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289749

Sample ID: MB-289749	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414264							
SampleType: MBLK	TestCode: Mercury, Total SW7470A	BatchID: 289749	Analysis Date: 12/18/2019	Seq No: 9341625							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00020

Sample ID: LCS-289749	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414264							
SampleType: LCS	TestCode: Mercury, Total SW7470A	BatchID: 289749	Analysis Date: 12/18/2019	Seq No: 9341627							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004057 0.00020 0.0040 101 80 120

Sample ID: 1912E06-007BMS	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414264							
SampleType: MS	TestCode: Mercury, Total SW7470A	BatchID: 289749	Analysis Date: 12/18/2019	Seq No: 9341630							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004218 0.00020 0.0040 0.0002197 100.0 75 125

Sample ID: 1912E06-007BMSD	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414264							
SampleType: MSD	TestCode: Mercury, Total SW7470A	BatchID: 289749	Analysis Date: 12/18/2019	Seq No: 9341631							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004126 0.00020 0.0040 0.0002197 97.7 75 125 0.004218 2.21 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289750

Sample ID: MB-289750	Client ID:	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341345							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289750

Sample ID: MB-289750	Client ID:	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341345							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	53.54	0	50.00		107	64	125				
Surr: Dibromofluoromethane	57.11	0	50.00		114	76.4	125				
Surr: Toluene-d8	50.83	0	50.00		102	78.3	116				

Sample ID: LCS-289750	Client ID:	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341344							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289750

Sample ID: LCS-289750	Client ID:	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341344							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.64	5.0	50.00		87.3	69.2	141				
Benzene	49.78	5.0	50.00		99.6	72.3	126				
Chlorobenzene	49.26	5.0	50.00		98.5	73.3	135				
Toluene	48.97	5.0	50.00		97.9	70.5	128				
Trichloroethene	50.23	5.0	50.00		100	70.3	133				
Surr: 4-Bromofluorobenzene	54.05	0	50.00		108	64	125				
Surr: Dibromofluoromethane	56.54	0	50.00		113	76.4	125				
Surr: Toluene-d8	50.25	0	50.00		100	78.3	116				

Sample ID: 1912G34-010AMS	Client ID: GWC-11	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341359							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.40	5.0	50.00		125	63.8	146				
Benzene	55.36	5.0	50.00		111	70.2	137				
Chlorobenzene	53.08	5.0	50.00		106	72.7	141				
Toluene	55.41	5.0	50.00		111	67	141				
Trichloroethene	59.66	5.0	50.00		119	69.3	141				
Surr: 4-Bromofluorobenzene	53.02	0	50.00		106	64	125				
Surr: Dibromofluoromethane	55.15	0	50.00		110	76.4	125				
Surr: Toluene-d8	50.57	0	50.00		101	78.3	116				

Sample ID: 1912G34-009ADUP	Client ID: PHI-GWB-2	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341358							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,1-Trichloroethane	BRL	5.0						0	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289750

Sample ID: 1912G34-009ADUP	Client ID: PH1-GWB-2	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341358

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,2,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,2-Trichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethene	BRL	5.0						0	0	20	
1,2,3-Trichloropropane	BRL	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	5.0						0	0	20	
1,2-Dibromoethane	BRL	5.0						0	0	20	
1,2-Dichlorobenzene	BRL	5.0						0	0	20	
1,2-Dichloroethane	BRL	5.0						0	0	20	
1,2-Dichloropropane	BRL	5.0						0	0	20	
1,4-Dichlorobenzene	BRL	5.0						0	0	20	
2-Butanone	BRL	50						0	0	20	
2-Hexanone	BRL	10						0	0	20	
4-Methyl-2-pentanone	BRL	10						0	0	20	
Acetone	BRL	50						0	0	20	
Acrylonitrile	BRL	5.0						0	0	20	
Benzene	BRL	5.0						0	0	20	
Bromochloromethane	BRL	5.0						0	0	20	
Bromodichloromethane	BRL	5.0						0	0	20	
Bromoform	BRL	5.0						0	0	20	
Bromomethane	BRL	5.0						0	0	20	
Carbon disulfide	BRL	5.0						0	0	20	
Carbon tetrachloride	BRL	5.0						0	0	20	
Chlorobenzene	BRL	5.0						0	0	20	
Chloroethane	BRL	10						0	0	20	
Chloroform	BRL	5.0						0	0	20	
Chloromethane	BRL	10						0	0	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289750

Sample ID: 1912G34-009ADUP	Client ID: PH1-GWB-2	Units: ug/L	Prep Date: 12/18/2019	Run No: 414258							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 289750	Analysis Date: 12/18/2019	Seq No: 9341358							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0						0	0	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	BRL	5.0						0	0	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	
Trichloroethene	BRL	5.0						0	0	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	53.62	0	50.00		107	64	125	52.91	0	0	
Surr: Dibromofluoromethane	55.69	0	50.00		111	76.4	125	54.68	0	0	
Surr: Toluene-d8	51.56	0	50.00		103	78.3	116	50.21	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: 289775

Sample ID: MB-289775	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414291							
SampleType: MBLK	TestCode: Total Cyanide (SM4500 CN-C, E)	BatchID: 289775	Analysis Date: 12/18/2019	Seq No: 9341092							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

BRL 0.010

Sample ID: LCS-289775	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414291							
SampleType: LCS	TestCode: Total Cyanide (SM4500 CN-C, E)	BatchID: 289775	Analysis Date: 12/18/2019	Seq No: 9341093							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.09400 0.010 0.1000 94.0 85 115

Sample ID: 1912G34-029CMS	Client ID: SWC-5	Units: mg/L	Prep Date: 12/19/2019	Run No: 414291							
SampleType: MS	TestCode: Total Cyanide (SM4500 CN-C, E)	BatchID: 289775	Analysis Date: 12/19/2019	Seq No: 9343545							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.09400 0.010 0.1000 94.0 90 110

Sample ID: 1912J34-002AMS	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414291							
SampleType: MS	TestCode: Total Cyanide (SM4500 CN-C, E)	BatchID: 289775	Analysis Date: 12/18/2019	Seq No: 9341095							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.09300 0.010 0.1000 93.0 90 110

Sample ID: 1912J34-002AMSD	Client ID:	Units: mg/L	Prep Date: 12/18/2019	Run No: 414291							
SampleType: MSD	TestCode: Total Cyanide (SM4500 CN-C, E)	BatchID: 289775	Analysis Date: 12/18/2019	Seq No: 9341222							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.09300 0.010 0.1000 93.0 90 110 0.09300 0 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: R414142

Sample ID: MB-R414142	Client ID:	Units: mg/L	Prep Date:	Run No: 414142							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) by SM5310B	BatchID: R414142	Analysis Date: 12/18/2019	Seq No: 9338041							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R414142	Client ID:	Units: mg/L	Prep Date:	Run No: 414142							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) by SM5310B	BatchID: R414142	Analysis Date: 12/17/2019	Seq No: 9338039							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

23.17 1.00 25.00 92.7 90 110

Sample ID: 1912F96-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 414142							
SampleType: MS	TestCode: Total Organic Carbon (TOC) by SM5310B	BatchID: R414142	Analysis Date: 12/18/2019	Seq No: 9338044							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

22.54 1.00 25.00 90.2 80 120

Sample ID: 1912F96-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 414142							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) by SM5310B	BatchID: R414142	Analysis Date: 12/18/2019	Seq No: 9338045							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

23.03 1.00 25.00 92.1 80 120 22.54 2.15 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: R414288

Sample ID: MB-R414288	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: MBLK	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/18/2019	Seq No: 9344205							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride BRL 1.00

Sample ID: LCS-R414288	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: LCS	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/18/2019	Seq No: 9344201							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.10 1.00 10.00 101 90 110

Sample ID: 1912C39-001BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/18/2019	Seq No: 9344234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.31 1.00 10.00 103 90 110

Sample ID: 1912C39-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/18/2019	Seq No: 9344238							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.15 1.00 10.00 102 90 110

Sample ID: 1912G27-005GMS	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/19/2019	Seq No: 9344276							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 129.4 10.0 100.0 35.73 93.7 90 110

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: R414288

Sample ID: 1912G27-009GMS	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/19/2019	Seq No: 9344271							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 121.3 10.0 100.0 25.25 96.1 90 110

Sample ID: 1912C39-001BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: MSD	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/18/2019	Seq No: 9344236							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.15 1.00 10.00 102 90 110 10.31 1.53 20

Sample ID: 1912G27-009GMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 414288							
SampleType: MSD	TestCode: Inorganic Anions by IC E300.0	BatchID: R414288	Analysis Date: 12/19/2019	Seq No: 9344272							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 121.3 10.0 100.0 25.25 96.0 90 110 121.3 0.057 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth Co.
Workorder: 1912G34

ANALYTICAL QC SUMMARY REPORT

BatchID: R414375

Sample ID: MB-414375	Client ID:	Units: mg/L	Prep Date:	Run No: 414375							
SampleType: MBLK	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R414375	Analysis Date: 12/19/2019	Seq No: 9344714							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand

BRL 10.0

Sample ID: LCS-414375	Client ID:	Units: mg/L	Prep Date:	Run No: 414375							
SampleType: LCS	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R414375	Analysis Date: 12/19/2019	Seq No: 9344715							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand

488.0 10.0 500.0 97.6 90 110

Sample ID: 1912G27-032CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 414375							
SampleType: MS	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R414375	Analysis Date: 12/19/2019	Seq No: 9344717							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand

435.7 12.5 375.0 78.87 95.2 90 110

Sample ID: 1912G34-031FMS	Client ID: SWC-4	Units: mg/L	Prep Date:	Run No: 414375							
SampleType: MS	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R414375	Analysis Date: 12/19/2019	Seq No: 9344730							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand

359.9 12.5 375.0 6.941 94.1 90 110

Sample ID: 1912G27-032CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 414375							
SampleType: MSD	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R414375	Analysis Date: 12/19/2019	Seq No: 9344718							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand

435.7 12.5 375.0 78.87 95.2 90 110 435.7 0 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 28, 2020

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County- Hightower Road Landfill

Dear Charles Adams:

Order No: 2002R87

Analytical Environmental Services, Inc. received 2 samples on 2/26/2020 12:09:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/19-06/30/20.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/20 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling
Project Manager

CHAIN OF CUSTODY

COMPANY: <u>Albany County</u>		ADDRESS: <u>5065 7150 North Peachtree Pkwy Suite 100 Roswell, GA, 30076</u>			ANALYSIS REQUESTED								Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.		Number of Containers					
PHONE: <u>770-544-5492</u>		EMAIL: <u>Charles.Aden@ALCO.NET</u>			VOCs	Total	PRESERVATION (see codes)									REMARKS				
SAMPLED BY: <u>J. Berland</u>		SIGNATURE:					#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)						
		DATE	TIME																	
1	<u>SWC-6</u>	<u>2-26-20</u>	<u>1630</u>	<u>X</u>		<u>SW</u>	<u>✓</u>													
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	PROJECT INFORMATION			RECEIPT	
1.	<u>2/26/20 1209</u>	1.	<u>2/26/2020 1209</u>	PROJECT NAME:			Total # of Containers	
2.		2.		PROJECT #:			Turnaround Time (TAT) Request	
3.		3.		SITE ADDRESS:			<input checked="" type="checkbox"/> Standard	
SPECIAL INSTRUCTIONS/COMMENTS:				SEND REPORT TO:			<input type="checkbox"/> 2 Business Day Rush	
				INVOICE TO (IF DIFFERENT FROM ABOVE):			<input type="checkbox"/> Next Business Day Rush	
SHIPMENT METHOD				QUOTE #:			<input type="checkbox"/> Same-Day Rush (auth req.)	
				PO#:			<input type="checkbox"/> Other _____	
OUT: / / VIA:				STATE PROGRAM (if any): _____				
IN: <u>Client</u> / / VIA: <u>FedEx</u>				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>				
other: _____				DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>				

Client: Atlantic Coast Consulting, Inc.
Project: Forsyth County- Hightower Road Landfill
Lab ID: 2002R87

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank was analyzed.

Volatiles Organic Compounds Analysis by Method 8260D:

Toluene value for the QC samples 2002P79-003AMS/MSD is "E" qualified indicating estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-6
Project Name: Forsyth County- Hightower Road Landfill	Collection Date: 2/26/2020 10:30:00 AM
Lab ID: 2002R87-001	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,1-Dichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,1-Dichloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,2,3-Trichloropropane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	293242	1	02/27/2020 23:32	NP
1,2-Dibromoethane	BRL	1.0		ug/L	293242	1	02/27/2020 23:32	NP
1,2-Dichlorobenzene	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
1,2-Dichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,2-Dichloropropane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
1,4-Dichlorobenzene	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
2-Butanone	BRL	100		ug/L	293242	1	02/27/2020 23:32	NP
2-Hexanone	BRL	50		ug/L	293242	1	02/27/2020 23:32	NP
4-Methyl-2-pentanone	BRL	50		ug/L	293242	1	02/27/2020 23:32	NP
Acetone	BRL	100		ug/L	293242	1	02/27/2020 23:32	NP
Acrylonitrile	BRL	50		ug/L	293242	1	02/27/2020 23:32	NP
Benzene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Bromochloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Bromodichloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Bromoform	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Bromomethane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Carbon disulfide	BRL	5.0		ug/L	293242	1	02/27/2020 23:32	NP
Carbon tetrachloride	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Chlorobenzene	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Chloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Chloroform	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Chloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
cis-1,2-Dichloroethene	4.0	2.0		ug/L	293242	1	02/27/2020 23:32	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Dibromochloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Dibromomethane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Ethylbenzene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Iodomethane	BRL	100		ug/L	293242	1	02/27/2020 23:32	NP
Methylene chloride	BRL	5.0		ug/L	293242	1	02/27/2020 23:32	NP
Styrene	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Tetrachloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Toluene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	293242	1	02/27/2020 23:32	NP
Trichloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Trichlorofluoromethane	BRL	10		ug/L	293242	1	02/27/2020 23:32	NP
Vinyl acetate	BRL	100		ug/L	293242	1	02/27/2020 23:32	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: SWC-6
Project Name: Forsyth County- Hightower Road Landfill	Collection Date: 2/26/2020 10:30:00 AM
Lab ID: 2002R87-001	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Vinyl chloride	BRL	2.0		ug/L	293242	1	02/27/2020 23:32	NP
Xylenes, Total	BRL	5.0		ug/L	293242	1	02/27/2020 23:32	NP
Surr: 4-Bromofluorobenzene	101	64-125		%REC	293242	1	02/27/2020 23:32	NP
Surr: Dibromofluoromethane	103	76.4-125		%REC	293242	1	02/27/2020 23:32	NP
Surr: Toluene-d8	99.1	78.3-116		%REC	293242	1	02/27/2020 23:32	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth County- Hightower Road Landfill	Collection Date: 2/26/2020
Lab ID: 2002R87-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,1,1-Trichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,1,2-Trichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,1-Dichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,1-Dichloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,2,3-Trichloropropane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	293242	1	02/27/2020 23:08	NP
1,2-Dibromoethane	BRL	1.0		ug/L	293242	1	02/27/2020 23:08	NP
1,2-Dichlorobenzene	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
1,2-Dichloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,2-Dichloropropane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
1,4-Dichlorobenzene	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
2-Butanone	BRL	100		ug/L	293242	1	02/27/2020 23:08	NP
2-Hexanone	BRL	50		ug/L	293242	1	02/27/2020 23:08	NP
4-Methyl-2-pentanone	BRL	50		ug/L	293242	1	02/27/2020 23:08	NP
Acetone	BRL	100		ug/L	293242	1	02/27/2020 23:08	NP
Acrylonitrile	BRL	50		ug/L	293242	1	02/27/2020 23:08	NP
Benzene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Bromochloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Bromodichloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Bromoform	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Bromomethane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Carbon disulfide	BRL	5.0		ug/L	293242	1	02/27/2020 23:08	NP
Carbon tetrachloride	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Chlorobenzene	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Chloroethane	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Chloroform	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Chloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
cis-1,2-Dichloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
cis-1,3-Dichloropropene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Dibromochloromethane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Dibromomethane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Ethylbenzene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Iodomethane	BRL	100		ug/L	293242	1	02/27/2020 23:08	NP
Methylene chloride	BRL	5.0		ug/L	293242	1	02/27/2020 23:08	NP
Styrene	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Tetrachloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Toluene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
trans-1,2-Dichloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
trans-1,3-Dichloropropene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	293242	1	02/27/2020 23:08	NP
Trichloroethene	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Trichlorofluoromethane	BRL	10		ug/L	293242	1	02/27/2020 23:08	NP
Vinyl acetate	BRL	100		ug/L	293242	1	02/27/2020 23:08	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: TRIP BLANK
Project Name: Forsyth County- Hightower Road Landfill	Collection Date: 2/26/2020
Lab ID: 2002R87-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Vinyl chloride	BRL	2.0		ug/L	293242	1	02/27/2020 23:08	NP
Xylenes, Total	BRL	5.0		ug/L	293242	1	02/27/2020 23:08	NP
Surr: 4-Bromofluorobenzene	101	64-125		%REC	293242	1	02/27/2020 23:08	NP
Surr: Dibromofluoromethane	104	76.4-125		%REC	293242	1	02/27/2020 23:08	NP
Surr: Toluene-d8	98.4	78.3-116		%REC	293242	1	02/27/2020 23:08	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Atlantic Coast Consulting, Inc.

AES Work Order Number: 2002R87

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.4 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). KH2/26/20

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input checked="" type="checkbox"/>	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt.

I certify that I have completed sections 16-27 (dated initials). LM 2/26/20

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). LM 2/26/20

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2002R87

ANALYTICAL QC SUMMARY REPORT

BatchID: 293242

Sample ID: MB-293242	Client ID:	Units: ug/L	Prep Date: 02/27/2020	Run No: 419493							
Sample Type: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 293242	Analysis Date: 02/27/2020	Seq No: 9477255							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2002R87

ANALYTICAL QC SUMMARY REPORT

BatchID: 293242

Sample ID: MB-293242	Client ID:	Units: ug/L	Prep Date: 02/27/2020	Run No: 419493							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 293242	Analysis Date: 02/27/2020	Seq No: 9477255							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	50.46	0	50.00		101	64	125				
Surr: Dibromofluoromethane	51.37	0	50.00		103	76.4	125				
Surr: Toluene-d8	50.13	0	50.00		100	78.3	116				

Sample ID: LCS-293242	Client ID:	Units: ug/L	Prep Date: 02/27/2020	Run No: 419493							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 293242	Analysis Date: 02/27/2020	Seq No: 9477254							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2002R87

ANALYTICAL QC SUMMARY REPORT

BatchID: 293242

Sample ID: LCS-293242	Client ID:	Units: ug/L	Prep Date: 02/27/2020	Run No: 419493							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 293242	Analysis Date: 02/27/2020	Seq No: 9477254							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	21.74	5.0	20.00		109	69.2	141				
Benzene	21.80	5.0	20.00		109	72.3	126				
Chlorobenzene	22.01	5.0	20.00		110	73.3	135				
Toluene	21.35	5.0	20.00		107	70.5	128				
Trichloroethene	22.21	5.0	20.00		111	70.3	133				
Surr: 4-Bromofluorobenzene	50.15	0	50.00		100	64	125				
Surr: Dibromofluoromethane	51.80	0	50.00		104	76.4	125				
Surr: Toluene-d8	49.85	0	50.00		99.7	78.3	116				

Sample ID: 2002P79-003AMS	Client ID: MW-3	Units: ug/L	Prep Date: 02/27/2020	Run No: 419493							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 293242	Analysis Date: 02/27/2020	Seq No: 9477257							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1018	250	1000		102	63.8	146				
Benzene	7289	250	1000	6574	71.6	70.2	137				
Chlorobenzene	1023	250	1000		102	72.7	141				
Toluene	22930	250	1000	22350	58.0	67	141				SE
Trichloroethene	1026	250	1000		103	69.3	141				
Surr: 4-Bromofluorobenzene	2543	0	2500		102	64	125				
Surr: Dibromofluoromethane	2672	0	2500		107	76.4	125				
Surr: Toluene-d8	2466	0	2500		98.6	78.3	116				

Sample ID: 2002P79-003AMSD	Client ID: MW-3	Units: ug/L	Prep Date: 02/27/2020	Run No: 419493							
SampleType: MSD	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 293242	Analysis Date: 02/27/2020	Seq No: 9477258							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	986.5	250	1000		98.6	63.8	146	1018	3.14	20.8	
Benzene	7100	250	1000	6574	52.6	70.2	137	7289	2.63	20	S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2002R87

ANALYTICAL QC SUMMARY REPORT

BatchID: 293242

Sample ID: 2002P79-003AMSD	Client ID: MW-3	Units: ug/L	Prep Date: 02/27/2020	Run No: 419493
SampleType: MSD	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 293242	Analysis Date: 02/27/2020	Seq No: 9477258

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	981.5	250	1000		98.2	72.7	141	1023	4.14	20	
Toluene	22120	250	1000	22350	-22.6	67	141	22930	3.58	20	SE
Trichloroethene	971.5	250	1000		97.2	69.3	141	1026	5.46	17.9	
Surr: 4-Bromofluorobenzene	2514	0	2500		101	64	125	2543	0	0	
Surr: Dibromofluoromethane	2587	0	2500		103	76.4	125	2672	0	0	
Surr: Toluene-d8	2553	0	2500		102	78.3	116	2466	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

ATTACHMENT B
CORRECTIVE MEASURES STATUS EVALUATION

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Professional Geologist Certification

I, Charles B. Adams, certify that I am a qualified groundwater scientist demonstrated by a Georgia state registered professional geologist certification. I have sufficient training and experience in groundwater hydrology and related fields to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that the data in this report has been prepared by me or a subordinate working under my direction.



Charles B. Adams, P.G.
Georgia P.G. Registration Number 1632

1.0 Introduction

On behalf of Forsyth County, Georgia, Atlantic Coast Consulting, Inc. (ACC) is providing this Corrective Measures Status Evaluation for the Forsyth County Hightower Road Municipal Solid Waste Landfill (MSWLF) (Phases I-IV). This report is being provided in accordance with the Environmental Protection Division (EPD) approved July 2008 Corrective Action Plan (CAP). The Assessment of Corrective Measures (ACM) report completed in 2004 concluded that the source of volatile organic compound (VOC) impacts at the facility was primarily landfill gas (LFG) and evaluated various means of reducing LFG impacts to groundwater. The selected remedies for the Site are: 1) LFG migration and infiltration control, and 2) monitored natural attenuation (MNA). The objective of this report is to provide an evaluation of the CAP prescribed corrective measure progress towards compliance with applicable groundwater protection standards (GWPS) per rule 391-3-4-.14(44)(a)(3). This document presents and reviews data collected during the semi-annual groundwater sampling events since the revised CAP was submitted in 2008. Note the first Corrective Measures Status Evaluation was presented as an attachment to the Second 2010 Groundwater Monitoring Report, and subsequent reports were provided in the Second 2013 and Second 2016 groundwater monitoring reports.

The corrective action program was established to meet the implementation guidelines described in the Georgia Rules for Solid Waste Management 391-3-4-.14(44). Molar trend plots of groundwater data are provided per CAP requirements to satisfy Georgia rule 391-3-4-.14(44)(a). The CAP measures are achieving the corrective action goals per Georgia rule 391-3-4-.14(40) based on the review and evaluation of data collected. Based on evaluation of MNA data results and time trend plots, Forsyth County will continue the EPD-approved groundwater monitoring program in accordance with the Assessment of Corrective Measures (ACM) study, assessment monitoring plan and CAP for the Hightower Road Landfill. No changes to the corrective action program are recommended at this time. A corrective action schedule is provided in this report per Georgia rule 391-3-4-.14(41). The remedies under this CAP will be considered complete per rule 391-3-4-.14(48)(a) when compliance with the GWPS has been achieved, unless conditions warrant implementation of rule 391-3-4-.14(46).

1.1 Background

The Forsyth County Hightower Road MSWLF is a closed facility, located in northwest Forsyth County, Georgia. A map depicting the site location is presented as Figure A1. Phases I and II operated under EPD Permit No. 058-006D(L) from 1986 until 1994, Phase III under EPD Permit No. 058-009D(SL) from 1991 until 1995, and Phase IV under EPD Permit No. 058-010S(SL) from 1993 until 1997. Closure activities for the entire facility were completed in 1999. A map depicting the landfill phases, monitoring network, methane vent trenches, vent system, and passive flare locations is provided in Figure A2. More extensive detail of the site history is included in the ACM and CAP.

Currently, there are 13 monitoring network wells and three AMW series wells (installed during previous ACM nature and extent investigations) utilized to monitor groundwater conditions near Phase I of the facility, and 34 monitoring network wells and ten AMW series wells to monitor Phases II-IV. Throughout the site well clusters have been installed to monitor vertical gradients and/or stratification of impacts. The shallowest wells have no suffix (e.g. GWC-8), the intermediate wells have an "A" suffix (e.g. GWC-8A) and the deepest wells (installed in rock) have an "R" suffix (e.g. GWC-8R). Surface water conditions are monitored for permit required parameters (Georgia Table 1 Surface Water Parameters) at 11 facility locations. Surface water

location SWC-4 is sampled for Appendix I VOCs on a semi-annual basis to evaluate discharge boundary conditions (SWC-6 has also been voluntarily added for Appendix I VOC analysis). CAP-specified MNA parameters are collected from select wells on an annual basis. MNA sampling began effective with the second 2007 monitoring event.

LFG is the primary source of groundwater impact at the Site. Forsyth County installed a vent system during the 1999 closure that consists of 23 passive vents as part of the remedy (Figure A2). As part of the EPD-approved interim CAP recommendations, methane vent trenches were installed in Phase II (MSW), Phase II (C&D), and Phase I (MSW), designated as Methane Vent Trench #1, #2, and #3, respectively (Figure A2). A Minor Modification request to install an active extraction system was approved by EPD on April 15, 2010. This modification enhances the extraction of LFG by the addition of passive solar flares at selected locations to help improve groundwater conditions. That design included adapting six passive vents as vertical gas extraction wells equipped with solar powered flare/blower units (the vents included 2 vents in Phase I and 4 vents in Phase II and these locations are shown on Figure A2). Forsyth County implemented this design and the installation certification report was submitted to EPD October 14, 2011.

2.0 CAP Effectiveness Evaluation

The effectiveness of each of the CAP remedies (LFG Migration/Infiltration Control and MNA) is discussed in the following sections.

2.1 Landfill Gas Migration/Infiltration Control

The combination of passive methane vents, vent trenches, and active solar powered gas extraction blowers with flares has been effective in reducing methane concentrations as measured in perimeter methane monitoring locations. Historically, MM-2 and MM-11 had methane concentrations above the lower explosive limit (LEL). The 2019 quarterly methane monitoring data indicates that no methane compliance point had a measured concentration above the LEL. The vent trenches have been effective in reducing methane at the compliance monitoring points as evidenced by lack of methane LEL exceedances in the network during the quarterly methane monitoring.

Methane is measured in well headspace in select wells in accordance with the CAP; measurements are displayed in Table A1. There have been levels of methane in well headspace in PH1-GWB-2, PH1-GWA-2, and GWC-16A between 2008 and 2018 (Table A1). The highest measurement for GWC-16A was in December 2014. The level of methane in the headspace of GWC-16A has dropped from 52% by volume in December 2014, to 0% by volume in December 2019. Because GWC-16A does not currently have methane in the well headspace, this may indicate that the LFG migration controls are preventing the gas buildup in this part of the landfill. During post-closure inspections, the flares have been observed to be flaring gas, which is direct evidence of the control of LFG due to this corrective measure.

The six passive vents adapted as vertical gas extraction wells equipped with solar powered flare/blower units have been successful in flaring LFG since their installation. The combination of flared LFG extraction and methane vent trenches has been effective in controlling LFG migration as evidenced by the lack of methane above the lower explosive limit in the monitoring network and direct evidence of LFG flaring.

The landfill is inspected quarterly in accordance with the CAP and Post-Closure Care requirements. Inspection Forms are completed and filed in the operating record to document the

condition of the landfill cap/cover, methane and groundwater monitoring wells, surface water systems, LFG management system, and general notes/observations. Repairs are made as necessary and general maintenance is completed regularly by the County. No major cap repairs have been required during the last three year period.

2.2 MNA Effectiveness Evaluation

The 2007 to 2019 groundwater monitoring events included annual collection of MNA parameters from select downgradient monitoring wells in the assessment monitoring program, three AMW series wells where VOCs have been detected (AMW-4, AMW-5 and AMW-14), and an unimpacted upgradient well (PH1-GWA-4). MNA parameter analysis included laboratory testing for total alkalinity, total dissolved solids, chloride, sulfate, and nitrate, and field testing was performed for ferrous iron, dissolved oxygen, oxidation-reduction potential, and carbon dioxide. These data were collected in accordance with the CAP. A summary of MNA indicator parameter data is presented in Table A1. A summary of the MNA parameter average concentrations, as well as maximum, minimum, and median values is presented in Table A2.

Based on review of the 2007 to 2019 MNA data, upgradient well PH1-GWA-4 contains the relative highest average concentration of dissolved oxygen, and the lowest average concentration of carbon dioxide, alkalinity, chloride, and total dissolved solids; and no detections of ferrous iron (reduced form). This is a general indication that dissolved oxygen and nitrate are relatively depleted and conditions are more reducing in impacted wells. Additionally, the ORP is relatively lower in impacted wells compared to background (negative in some cases); specifically, the median value of impacted wells is 144 mV versus 198 mV in PH1-GWA-4; ferrous iron has also been observed in field tests from a number of impacted wells. It should also be noted that the relatively higher alkalinity and carbon dioxide concentrations in impacted wells are indicators typical of a LFG source. In particular six wells, PH1-GWA-2, GWC-8A, GWC-14A, GWC-16A, GWC-17, and GWC-19R have shown carbon dioxide concentrations that are significantly elevated compared to background. Consistent with historic results, the recent MNA data set affirms the ACM determination that low level VOC concentrations in groundwater are likely attributable to a LFG source and that natural attenuation is occurring.

There are five direct lines of evidence that demonstrate natural attenuation:

- 1) The ratios of tetrachloroethene (PCE) and trichloroethene (TCE) to cis-1,2-DCE indicate degradation is occurring via reductive dechlorination. It is generally recognized that cis-1,2-DCE is a daughter product of PCE and/or TCE. In the most recent sampling event, the concentration of cis-1,2-DCE is higher than PCE and TCE in wells: PH1-GWA-1, PH1-GWA-2, PH1-GWC-3, PH1-GWC-3A, GWC-8A, GWC-8R, GWC-14A, GWC-14R, GWC-18, GWC-19R, and GWC-24. This indicates that PCE and TCE are likely breaking down into cis-1,2-DCE in these wells.
- 2) The presence of further degradation of PCE and/or TCE parent compounds to vinyl chloride has been observed in samples from GWC-14A, GWC-16A, and GWC-19R.
- 3) Carbon dioxide levels in impacted wells are generally greater than two times the background level as shown on Table A2. The presence of elevated levels of carbon dioxide may result directly from LFG interaction with groundwater, as a respirative product of anaerobic bacteria, and/or as a final degradation product as a result of complete mineralization of organic compounds.
- 4) Total alkalinity in the impacted wells is greater than two times the background level in PH-1-GWA-4. The elevated alkalinity levels are attributed to the interaction of carbon dioxide with groundwater to form carbonic acid and ultimately bicarbonate.

- 5) Chloride concentrations are greater than two times the background level in impacted wells PH1-GWC-3, GWC-14A, GWC-14R, GWC-16A, GWC-17, GWC-18, GWC-19R, and GWC-24. Chloride concentrations increase during the process of reductive dechlorination (e.g. chloride is released as PCE and TCE are reduced to cis-1,2-DCE and vinyl chloride). Relatively low level increases in chloride over background such as these may also occur due to LFG interaction with groundwater.

2.3 Groundwater Trend Evaluation

The ACM/CAP presented evaluations of groundwater conditions and presented evidence that conditions are favorable for MNA at the facility. Analysis of time-trend plots of contaminant concentrations indicated that the site would no longer have concentrations above a GWPS by approximately 2027. The ACM listed 30 years as the compliance goal and the CAP listed 20 years (by 2026) as the compliance goal and as adjusted in these three year evaluations, the year to compliance is approximately 2045. Generally consistent with these estimations, the molar plots of the concentration trends in assessment wells continue to be downward in comparison to historical highs and conditions remain favorable for MNA. Concentrations above a GWPS in the most recent groundwater monitoring events are summarized in Table A3a and A3b. As shown in these tables, the VOC exceedances (cis-1,2-DCE, PCE, TCE, and vinyl chloride) are clustered near assessment wells in two areas: Phase I wells (PH1-GWA-2, PH1-GWC-2, PH1-GWC-3 and PH1-GWC-3A) and Phase II-IV wells (GWC-14A, GWC-14R, GWC-18, AMW-1, AMW-4, AMW-12, and AMW-12R).

The VOC concentrations above their respective GWPS are chlorinated hydrocarbons. As presented in the ACM and CAP, most of the detected chlorinated VOCs represent various stages of reductive dechlorination of the chlorinated methane, ethane and ethene series. Lesser concentrations of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) have been reported in one or more of the monitoring wells sporadically over time (PH1-GWA-1, PH1-GWA-2, PH1-GWB-2, GWC-8, GWC-8A, GWC-8R, GWC-14A, GWC-16A, and GWC-19R). A summary of historical total BTEX detections is included in Table A4.

Trends of molar concentrations of chlorinated ethanes and chlorinated ethenes are plotted in Figures A3 through A12 for assessment monitoring wells with enough data to graph that have not achieved GWPS compliance. Chlorinated ethene series compounds are the most recalcitrant and are generally the limiting factor in attaining compliance with GWPS. As shown in Table A3, chlorinated ethane/ethene series compounds account for most current groundwater GWPS exceedances. Of the chlorinated ethene series compounds, vinyl chloride has the lowest GWPS (2 micrograms per liter - $\mu\text{g/L}$). Therefore, the molar concentration of the GWPS for vinyl chloride is used as the decisive compliance goal. These plots depict an approximate time to GWPS compliance. The approximate time to GWPS compliance is plotted as an inferred (best fit) line. This line (identified as *Estimated Degradation Trend* line on the plots) is estimated by evaluating the trend line (linear regression) information. To graph the overall trend, Excel linear regression trend lines are utilized as a guideline and the R^2 values are reviewed. The automatic Excel linear trend lines are not heavily weighted where R^2 values are less than 0.1 (R^2 values can be 0 to 1). Since most of the Excel linear regression lines are less than 0.1 (10 percent correlation of data); emphasis on the overall concentration trend is used in the Estimated Degradation Trend line. An evaluation of plots for each network well with a current GWPS exceedance is summarized below. Note that the vertical axis of each graph utilizes the maximum observed concentration in order to show the concentration trends in a smaller scale.

PH1-GWA-2: The current concentration of cis-1,2-DCE (120 $\mu\text{g/L}$) is above the GWPS of 70 $\mu\text{g/L}$. As is illustrated on Figure A3(a), chlorinated ethanes are currently in compliance with established

standards. The molar plot of total chlorinated ethenes shows an increasing trend. Further analysis of the chlorinated ethene series shows that PCE and TCE concentrations continue to decline and remain below relevant GWPS (historical concentrations were much greater than the GWPS), while cis-1,2-DCE concentrations are greater than PCE and TCE concentrations. The recent increase in cis-1,2-DCE concentrations is likely due to the breakdown of PCE and TCE. Figure A3(b) shows the molar concentration over time for PCE, TCE, and cis-1,2-DCE. Figure A3b is evidence for active reductive dechlorination where the recent accumulation of cis-1,2-DCE correlates with the declining concentrations of PCE. This pattern fits the reductive dechlorination model of attenuation. A longer term of evaluation is required for time to compliance estimation, once cis-1,2-DCE begins to degrade similar to the parent compound PCE.

PH1-GWC-2: In the most recent monitoring data, the concentration of PCE was above the GWPS. Well PH1-GWC-1 is located approximately 190 feet downgradient of PH1-GWC-2 and does not have VOC detections, so the VOC detections in PH1-GWC-2 are limited in aerial extent. As shown in Figure A4, there is a slight rising trend in the chlorinated ethane/ethane graphs. The concentration of cis-1,2-DCE is higher than PCE and/or TCE in the 2019 events. This pattern also fits the reductive dechlorination model of attenuation. Chlorinated ethanes are below the GWPS. A longer term evaluation compliance period is required to establish the compliance timeframe for chlorinated ethenes.

PH1-GWC-3: Chlorinated ethanes are below the GWPS. In the most recent monitoring data, the concentrations of PCE and TCE were above the GWPS. As shown in Figure A5, this shows up as a rising trend in the chlorinated ethane graph. Since 2014 the concentrations of cis-1,2-DCE have been above PCE and/or TCE. This fits the expected degradation pattern where PCE and TCE degrade to cis-1,2-DCE via reductive dechlorination. Thus natural attenuation is occurring, but a longer term evaluation compliance period is required to establish the compliance timeframe for chlorinated ethenes.

PH1-GWC-3A: In the most recent monitoring data, PCE and TCE concentrations were above the GWPS. Similar to PH1-GWC-3, this well has had cis-1,2-DCE concentrations higher than PCE and/or TCE since 2014. An estimated year of compliance, based on extrapolation of data in Figure A6, is 2044.

GWC-14A: Current concentrations of chloroethane, TCE, and vinyl chloride are above respective GWPS. Historically 1,1,1-trichloroethane concentrations have diminished and the concentration of cis 1,2-DCE is greater than PCE and TCE, which indicates that natural attenuation of groundwater contaminants is occurring via reductive dechlorination. The recent persistent presence of vinyl chloride also suggests that reductive dechlorination is on-going. Chlorinated ethane concentrations have been declining since 2003, and chlorinated ethenes are lower than initial levels. Based on the extrapolation of recent data trends shown in Figure A7, the GWPS is approximated to be met by 2044.

GWC-14R: Although the 2nd 2019 concentration of TCE is in compliance this well is evaluated because TCE was above the GWPS in the past three years. Chlorinated ethane concentrations appear to have peaked in 2003 and have steadily been declining since. The concentrations of cis-1,2-DCE are higher than PCE and TCE, indicating that reductive dechlorination is ongoing in this area. The time-trend plot of molar concentrations is presented in Figure A8. Based on the current downward trend, the estimated time to GWPS compliance is 2036.

GWC-15/AMW-1: Well GWC-15 was sampled during the first 2016 event, but was dry during the second 2016 event and second 2018 & 2019 events so its surrogate well AMW-1 has been sampled. PCE and TCE have been detected at concentrations above the GWPS since 2007 (equaled the MCL June 2018). The well was unable to be sampled in 2019 and the surrogate

well AMW-1 was sampled. The surrogate well AMW-1 has higher levels of PCE/TCE than GWC-15 and both well data is depicted in Figure A9. Currently chlorinated ethanes are in compliance with established standards. As shown on Figure A9, a longer term of evaluation is required to estimate year of GWPS compliance.

GWC-16A/AMW-2: Although the 2nd 2019 VOC concentration is in compliance this well is evaluated because methylene, PCE, and vinyl chloride have been above the GWPS within the past three years. Well GWC-16A has been dry during several recent events, so its surrogate well AMW-2 has been sampled. During the second 2019 event, only a low level of cis-1,2-DCE was detected in the sample from AMW-2. It appears that reductive dechlorination is active in this area as cis-1,2-DCE concentrations are higher than PCE and TCE. Chlorinated ethene and ethane concentrations show strong declining trends since 2004, with a unambiguous decrease from 2009 to 2013. The addition of the flares adjacent to GWC-16A have likely helped to improve groundwater quality in the area. A time-trend plot of molar concentrations is presented in Figure A10. This well has achieved GWPS compliance.

GWC-18: The current PCE concentration is above the GWPS. Chlorinated VOC concentrations have been declining since 2005, and currently chlorinated ethane concentrations are in compliance with GWPS. A time-trend plot of molar concentrations is presented in Figure A11. After the 2011 installation of flares in Phase III, concentrations of chlorinated ethanes dropped to non-detect and chlorinated ethenes decreased significantly. Based on extrapolation of data trends shown in Figure A11, GWPSs are estimated to be reached by 2040.

AMW-4: The current PCE concentration is above the GWPS at this sentinel monitoring well. As shown in Figure A12, chlorinated VOCs appear to have reached peak concentrations in June 2009 and are currently declining. This well appears to be in an earlier stage of reductive dechlorination where PCE and/or TCE concentrations are lower than concentrations of cis-1,2-DCE. This shift in the ratio of cis-1,2-DCE to PCE/TCE occurred after 2011. Based on extrapolation of recent data trends shown in Figure A12, GWPS are estimated to be reached by 2045.

AMW-12R: This sentinel well data is plotted/discussed to evaluate current trends (Figure A13). Concentrations of chlorinated ethenes have sporadically exceeded GWPS over the past several years. Samples from AMW-12R exhibit an increasing trend for PCE. The current concentration of PCE at 5.5 µg/L is above the GWPS that is lower than the peak observed concentration of 7.2 µg/L. The well is located downgradient of GWC-15/AMW-1 which also have detection of chlorinated VOCs. Based on extrapolation of the trends shown on Figure A13, GWPS compliance is expected to be reached by approximately 2034.

3.0 Evaluation Summary

Infiltration control (enhanced closure cover system), LFG migration control, and MNA are the remedial actions selected at the site. These remedial actions are responsible for improved groundwater quality. The LFG migration control is enhanced by venting and flaring of LFG. This enhancement has further improved groundwater quality (as evidenced by reductions of VOC concentrations in several wells and an overall decrease in the number of concentrations above a GWPS since 2007). The following items are noted based on a review of data collected in the ten years following implementation of the CAP.

- Overall, the number of groundwater Maximum Contaminant Level (MCL) exceedances has decreased from 29 in the second 2007 event to 13 in the current event. Also, the total number of SSIs that are MCL exceedances has decreased from 31 in the second 2007 event to 11 in the second 2019 event (Table A5). Of the forty-three network groundwater monitoring wells sampled in the second 2019 event, 20 had VOC detections above laboratory reporting limits and only nine of those had concentrations above the GWPS. The time-trend (molar concentration) plots for the assessment wells with concentrations above a GWPS indicate that site wells are generally on schedule to reach compliance in the approximate time range of 2025 to 2045.
- As discussed in Section 2.2, MNA parameters collected over the past ten years indicate that there is adequate evidence of favorable conditions for the reductive dechlorination of chlorinated VOCs in groundwater. In the most recent monitoring event, several assessment monitoring wells have concentrations of cis-1,2-DCE greater than PCE/TCE indicating that reductive dechlorination is occurring, natural attenuation is ongoing, and selected remedial measures are effective.
- In the most recent sampling event assessment monitoring wells sampled for MNA parameters have lower average redox potential and average dissolved oxygen relative to background well PH1-GWA-4 (Table A2). These relatively lower dissolved oxygen and slightly reducing conditions relative to background are conducive to degradation of chlorinated VOCs via reductive dechlorination.
- Several direct lines of evidence demonstrate that natural attenuation is occurring: 1) the ratio of cis-1,2-DCE is greater than PCE and TCE indicating a degradation reaction, 2) the presence of daughter product vinyl chloride in wells shows reductive dechlorination degradation, 3) The median value of MNA indicator parameters alkalinity, carbon dioxide, chloride, and TDS in wells with VOCs is greater than two times the background concentration (see Section 2.2).
- Samples from delineation well AMW-4 show trends of the degradation of PCE and TCE however PCE is currently above the GWPS. Appendix I VOCs are collected from SWC-4 (near AMW-4) to evaluate discharge boundary conditions. No verified VOCs have been detected in samples from SWC-4. Further evaluation will be performed in future monitoring events should this trend not sustain, and additional corrective actions recommended, if warranted.
- Samples from delineation well AMW-12R exhibit a slight increasing trend for PCE up to 9.1 µg/L (6/21/2018) with a current downward trend to 8.0 µg/L. Further evaluation will be performed in future monitoring events should this trend not sustain, and additional corrective actions recommended, if warranted.

4.0 Corrective Action Schedule

A Corrective Action Schedule was provided in the March 12, 2009 Response to Comments on the Revised CAP that included actual dates of CAP remedies and timelines for maintenance, inspections, MNA and reporting. The schedule is updated in the 2010, 2013 and 2016 CMSEs. The current schedule has been updated below:

CORRECTIVE ACTION SCHEDULE

ITEM	ESTIMATED/OR COMPLETION DATE (Actual completion in bold font)
Installation of landfill engineered cap system	Completed in 1999
Inspect landfill engineered cap system	Ongoing, perform quarterly, repair as needed
Complete perimeter methane monitoring and access control inspections	Ongoing, perform quarterly, repair as needed
Inspect LFG extraction systems	Perform quarterly, repair as needed
Sampling of MNA parameters	MNA sampling begins on the second 2007 Semi-annual Sampling Event; performed annually until cessation
MNA Evaluation Report	Complete every three years; initial report April 13, 2011
Interim CAP submitted to EPD	January 31, 2007
EPD Approved Interim CAP	May 3, 2007
Submission of Trench & Turbine Design Drawings to EPD	August 1, 2007
Methane Trench Construction Documentation Report to EPD	January 23, 2008
EPD Approval of Minor Modification for Trench Installation	April 23, 2008
Submitted CAP to EPD	July 14, 2008
EPD CAP Approval	November 10, 2008
Submission of Cost Table & Schedule (per EPD Comments on CAP)	March 12, 2009
Active Gas Extraction System Design	September 1, 2009
Active Gas Extraction System Design Submitted to EPD	December 11, 2009
EPD Design Review/Approval of Minor Modification	April 21, 2010
Complete Construction of Gas Flaring System	August 10, 2011
Gas Flaring System Construction Documentation to EPD	October 14, 2011
Timeframe to Return Site to Compliance	~25 years, ~2045 (based on trend analysis)

5.0 Contingency Plan and Recommendations

Based on observed data, the selected CAP remedies and recent enhancements (flares) appear to be effective in reducing most contaminant concentrations in groundwater. Molar trend plots of groundwater data are provided per the CAP to satisfy Georgia rule 391-3-4-.14(44)(a). The CAP on track to achieve corrective action goals per Georgia rule 391-3-4-.14(44), however several wells require a longer evaluation period to estimate a time to compliance. Forsyth County will continue implementing the selected CAP remedies and the effectiveness of remedial measures and future MNA data will be evaluated in the next CMSE, subsequent to the second 2022 monitoring event.

6.0 References

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Georgia EPD, 2005. Correspondence approving the Assessment of Corrective Measures titled, *Assessment of Corrective Measures Report, Hightower Road MSWL Phases 1,2,3,4*, January 28, 2005.

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**ATTACHMENT B
TABLES**

Table A1
Summary of MNA Indicator Parameter Data (2007-2019)
Forsyth County - Hightower Rd MSWLF

Well	Date	Alkalinity (mg/L as CaCO ₃)	Total Dissolved Solids	Chloride	Sulfate	Ferrous Iron ¹	Dissolved Oxygen ¹	ORP (rel mV) ¹	Carbon Dioxide ¹	Nitrate Nitrogen	Methane in Well Headspace (%/vol)
UNIMPACTED UPGRADIENT WELL											
PH1-GWA-4	2007	4	10	1.1	--	0.0	7.3	109	30	0.050	NM
PH1-GWA-4	2008	4	--	1.0	--	0.0	7.2	197	25	0.030	0
PH1-GWA-4	2009	7	21	1.2	--	0.0	6.7	209	25	0.071	0
PH1-GWA-4	2010	7.6	10	1.2	--	0.0	12	238	55	0.082	0
PH1-GWA-4	2011	5.9	47	--	--	0.0	8.5	214	40	0.058	0
PH1-GWA-4	2012	5.9	--	1.1	--	0.0	5.6	259	10	--	NM
PH1-GWA-4	2013	7.2	26	1.2	0.64	0.0	8.0	166	12	0.053	NM
PH1-GWA-4	2014	6.9	18	1.1	--	0.0	10	290	15	--	0
PH1-GWA-4	2015	7.4	7.0	1.2	--	0.0	6.1	24.0	20.0	--	NM
PH1-GWA-4	2016	7.5	24.0	1.2	--	0.0	8.6	290.0	25.0	--	NM
PH1-GWA-4	2017	6.3	14	1.1	--	0.5	6.5	286	25	--	NM
PH1-GWA-4	2018	11	21	1.1	--	0.0	9.7	98	35	--	NM
PH1-GWA-4	2019	7.04	--	2.1	--	0.0	5.1	199	45	--	NM
PHASE I ASSESSMENT WELLS											
PH1-GWA-1	2007	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
PH1-GWA-1	2008	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
PH1-GWA-1	2009	27	44	2.8	1.7	1.4	3.3	125	85	--	0
PH1-GWA-1	2010	56	42	1.9	--	2.5	7.4	65	115	0.052	0
PH1-GWA-1	2011	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0
PH1-GWA-1	2012	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0
PH1-GWA-1	2013	73	100	1.7	0.58	2.2	1.9	68	120	--	0
PH1-GWA-1	2014	38	42	1.6	--	2.4	3.8	146	110	--	0
PH1-GWA-1	2015	39	30	1.9	--	2.6	2.9	14	100	--	0
PH1-GWA-1	2016	40	79	1.8	--	2.3	3	-25	95	--	0
PH1-GWA-1	2017	45	34	2	--	2.5	2.8	75	115	--	0
PH1-GWA-1	2018	39	12	2	--	1.6	1.2	175	215	--	0
PH1-GWA-1	2019	27.6	28	2.8	--	1.2	1.4	159	190	--	0
PH1-GWA-2	2007	54	76	1.8	--	1.2	1.3	139	170	0.010	NM
PH1-GWA-2	2008	56	61	2.0	1.0	1.0	2.8	34	225	--	0
PH1-GWA-2	2009	96	160	2.2	1.5	2.0	3.1	96	225	--	1.45
PH1-GWA-2	2010	74	100	1.6	--	3.0	8.5	111	155	0.035	0
PH1-GWA-2	2011	64	97	1.7	2.1	1.5	1.1	96	320	0.14	0
PH1-GWA-2	2012	50	52	1.2	1.2	1.8	6.8	178	130	--	0
PH1-GWA-2	2013	80	82	1.6	--	2.2	4.8	108	160	--	0
PH1-GWA-2	2014	52	87	2.0	--	1.8	3.1	165	145	--	0
PH1-GWA-2	2015	48	65	1.6	--	1.2	2.3	44	170	--	0
PH1-GWA-2	2016	48	84	4.0	--	1.5	5.0	213	80	--	0.15
PH1-GWA-2	2017	47	46	3.7	--	1.0	13.3	291	180	--	3.7
PH1-GWA-2	2018	44	70	2.9	--	1.0	2.3	324	160	--	1.0
PH1-GWA-2	2019	46.2	61	4.7	--	1	2.4	311	190	--	0
PH1-GWC-2	2013	47	99	1.7	2.1	0.0	4.4	129	10	0.19	0
PH1-GWC-2	2014	52	77	1.7	1.5	0.0	5.6	91	28	0.16	0
PH1-GWC-2	2015	60	81	1.7	1.5	0.0	2.2	60	20	--	0
PH1-GWC-2	2016	55	89	1.9	1.8	0.0	3.0	135	20	0.142	NM
PH1-GWC-2	2017	59	72	2.0	--	0.0	3.8	73	14	--	0
PH1-GWC-2	2018	66	91	2.2	1.7	0.4	1.7	153	35	--	0
PH1-GWC-2	2019	62.2	95	2.9	2.1	2.8	1.5	111	55	--	0
PH1-GWC-3	2007	50	78	2.2	3.0	0.0	2.2	110	70	--	0
PH1-GWC-3	2008	50	78	2.2	3.0	0.0	2.2	110	70	--	0
PH1-GWC-3	2009	53	80	2.0	3.0	0.0	1.5	209	75	--	0
PH1-GWC-3	2010	59	50	2.4	4.0	0.0	6.3	159	105	0.052	0
PH1-GWC-3	2011	63	80	2.4	3.0	0.0	0.6	171	160	0.022	0
PH1-GWC-3	2012	53	60	2.5	4.2	1.4	2.4	169	55	--	0
PH1-GWC-3	2013	46	95	2.7	6.8	0.0	1.8	134	65	--	0
PH1-GWC-3	2014	53	84	2.6	3.7	0.0	2.0	141	70	--	0

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PH1-GWC-3	2015	55	51	3	4.0	0.0	1.8	173	90	--	0
PH1-GWC-3	2016	57	120	3.1	3.6	0.0	2.1	186	45	--	0
PH1-GWC-3	2017	54	50	3.4	2.5	0.5	3.5	274	95	--	0
PH1-GWC-3	2018	56	70	3.6	2.3	0.0	4.8	124	90	--	0
PH1-GWC-3	2019	60	101	4	3	0.0	1.6	200	15	--	0
PH1-GWC-3A	2007	69	96	1.9	--	0.0	2.0	91	50	--	0
PH1-GWC-3A	2008	63	84	2	--	0.0	1.8	192	50	--	0
PH1-GWC-3A	2009	68	120	1.8	--	0.0	5.1	157	25	--	0
PH1-GWC-3A	2010	73	110	1.4	--	0.0	3.3	143	70	0.017	0
PH1-GWC-3A	2011	73	140	1.1	--	0.0	2.3	115	70	0.022	0
PH1-GWC-3A	2012	68	68	1.4	--	0.0	3.1	254	30	--	0
PH1-GWC-3A	2013	60	100	1.6	0.62	0.4	5.1	67	20	--	0
PH1-GWC-3A	2014	74	100	1.3	--	0.0	3.1	114	40	--	0
PH1-GWC-3A	2015	79	62	1.9	--	0.6	2.4	140	45	--	0
PH1-GWC-3A	2016	76	110	1.3	--	0.0	2.9	172	25	--	0
PH1-GWC-3A	2017	74	120	1.2	--	1.0	2.7	223	85	--	NM
PH1-GWC-3A	2018	81	99	1.5	--	0.0	8.2	96	35	--	0
PH1-GWC-3A	2019	77.6	112	1.9	--	0.0	2.4	186	20	--	0
PHASE II-IV ASSESSMENT WELLS											
GWC-8A	2007	65	69	1.6	--	2.0	4.0	12	>350	NS	NM
GWC-8A	2008	95	90	2	--	2.0	3.4	32	325	--	0
GWC-8A	2009	63	110	2.1	--	3.8	4.1	104	185	0.019	0
GWC-8A	2010	99	100	1.5	--	6.6	3.6	38	300	0.041	0
GWC-8A	2011	130	120	1.4	--	2.0	1.4	46	400	0.071	0
GWC-8A	2012	150	130	1.9	--	2.0	3.1	62	110	--	0
GWC-8A	2013	50	110	1.7	--	2.0	3.8	54	200	--	0
GWC-8A	2014	93	95	1.6	--	2.4	3.0	74	225	--	0
GWC-8A	2015	120	120	1.7	--	2.2	2.5	45	125	--	0
GWC-8A	2016	92	120	1.9	--	3.2	2.4	31	240	--	0
GWC-8A	2017	64	100	1.9	--	2.8	3.6	82	325	--	0
GWC-8A	2018	56	110	2.4	3.2	1.4	1.9	138	105	--	0
GWC-8A	2019	142	105	4.6	--	2.5	2.4	49	400	--	0
GWC-8R	2007	71	92	1.4	2.0	1.0	3.1	22	65	NS	NM
GWC-8R	2008	87	75	2	2.0	1.6	1.1	25	75	--	0
GWC-8R	2009	75	100	1.7	2.3	2.6	1.9	88	80	--	0
GWC-8R	2010	89	98	--	1.8	4.4	3.0	20	75	0.022	0
GWC-8R	2011	100	120	1.6	2.1	2.4	0.2	19	160	0.029	0
GWC-8R	2012	99	92	1.8	1.8	2.2	2.9	-4	70	--	0
GWC-8R	2013	79	110	1.9	1.8	1.8	4.2	27	45	--	0
GWC-8R	2014	120	130	1.8	1.9	2.0	1.6	76	100	--	0
GWC-8R	2015	120	120	1.8	1.8	1.8	2.7	68	90	--	0
GWC-8R	2016	110	140	1.8	2	2.2	2.2	53	110	--	0
GWC-8R	2017	99	110	1.8	--	3.2	2.4	122	70	--	0
GWC-8R	2018	100	130	2.0	3.4	1.5	1.4	184	80	--	0
GWC-8R	2019	133	149	3.1	2.5	2.2	2.7	33	85	--	0
GWC-14A	2007	81	96	4.3	--	1.0	3.2	26	150	NS	NM
GWC-14A	2008	102	124	6	--	1.2	5.2	46	275	--	0
GWC-14A	2009	120	150	9.4	1.3	1.5	1.7	51	100	--	0
GWC-14A	2010	110	130	8.4	--	4.0	9.5	121	120	0.025	0
GWC-14A	2011	140	160	10	--	2.5	0.9	68	200	0.019	0
GWC-14A	2012	140	150	11	--	1.8	3.3	78	160	--	0
GWC-14A	2013	130	220	15	1.3	2.2	6.5	14	145	--	0
GWC-14A	2014	180	210	15	--	1.8	2.6	100	110	--	NM
GWC-14A	2015	180	190	17	1.3	2.6	NM	-45	95	--	0
GWC-14A	2016	140	170	16	1.5	1.5	4.9	42	115	--	0
GWC-14A	2017	140	150	16	--	2.5	3.8	79	140	--	0

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Forsyth County - Hightower Rd MSWLF

Well	Date	Alkalinity (mg/L as CaCO ₃)	Total Dissolved Solids	Chloride	Sulfate	Ferrous Iron ¹	Dissolved Oxygen ¹	ORP (rel mV) ¹	Carbon Dioxide ¹	Nitrate Nitrogen	Methane in Well Headspace (%/vol)
GWC-14A	2018	140	170	15	2.7	0.5	3.4	127	115	--	0
GWC-14A	2019	167	183	16	2.2	2.5	3.5	69	300	--	0
GWC-14R	2007	94	112	2.3	2.0	0.0	2.8	20	85	NS	NM
GWC-14R	2008	91	72	3	2.0	0.0	1.0	78	100	--	0
GWC-14R	2009	110	230	3.2	2.7	0.0	0.9	64	60	--	0
GWC-14R	2010	120	130	2.9	2.3	0.5	2.9	141	75	0.25	0
GWC-14R	2011	110	140	3.3	2.5	0.0	1.3	236	88	--	0
GWC-14R	2012	110	120	3.2	2.0	0.0	2.3	69	85	--	0
GWC-14R	2013	96	150	3.5	2.4	0.0	3.3	9	85	--	0
GWC-14R	2014	120	150	3.4	1.9	0.0	1.7	223	85	--	0
GWC-14R	2015	130	150	3.6	2.0	0.0	4.2	118	100	--	0
GWC-14R	2016	130	160	3.7	2.3	0.0	2.8	67	90	--	0
GWC-14R	2017	120	130	3.6	--	0.5	3.6	95	45	--	0
GWC-14R	2018	160	160	3.9	3.4	0.6	2.2	73	200	--	0
GWC-14R	2019	143	171	7.3	3.4	0.0	3.7	228	150	--	0
GWC-16A	2007	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
GWC-16A	2008	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
GWC-16A	2009	230	250	5.7	8.5	0	6.7	209	25	--	2.15
GWC-16A	2010	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
GWC-16A	2011	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	29
GWC-16A	2012	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0
GWC-16A	2013	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0
GWC-16A	2014	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	52
GWC-16A	2015	220	420	5.0	9.7	2.6	3.8	-7	360	--	22.5
GWC-16A*	2016	110	140	1.8	6.7	0	1.5	108	45	0.125	0
GWC-16A*	2017	81	78	1.7	6.3	0	6.9	312	65	--	54
GWC-16A*	2018	81	110	1.6	7.2	0.0	2.4	151	45	--	48
GWC-16A*	2019	74.1	110	2.3	6.2	0.0	2.5	227	50	0.42	0
GWC-17	2007	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
GWC-17	2008	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
GWC-17	2009	65	96	3	2.7	3.5	3.4	47	150	0.2	0
GWC-17	2010	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
GWC-17	2011	76	98	2.5	2.6	1	3.0	141	160	0.047	0
GWC-17	2012	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0
GWC-17	2013	56	75	2.4	2.6	0	3.4	203	120	0.57	0
GWC-17	2014	57	80	2	1.8	1.8	4.6	121.00	120	0.62	0
GWC-17	2015	56	83	2	1.8	0.8	2.2	88.00	110	0.83	0
GWC-17	2016	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	NM
GWC-17	2017	40	52	1.5	--	0	5.4	78.00	25	0.27	0
GWC-17	2018	91	76	1.5	--	1.4	2.4	115	160	1.1	0
GWC-17	2019	35.8	51	2.4	1.2	0	3.4	116	75	1.3	0
GWC-18	2007	55	54	4.1	--	0.6	2.0	35	>350	NS	NM
GWC-18	2008	46	54	4	--	1.6	1.8	43	75	--	0
GWC-18	2009	14	39	3.8	--	2.2	4.8	212	70	1.2	0
GWC-18	2010	34	44	5	--	3.4	4.3	110	110	0.15	0
GWC-18	2011	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0
GWC-18	2012	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	0
GWC-18	2013	15	71	4.3	--	0.5	6.4	114	75	3	0
GWC-18	2014	32	50	4	--	2.4	2.8	255	130	0.74	0
GWC-18	2015	29	46	3.7	--	2.0	5.0	115	125	1.2	0
GWC-18	2016	NM	NM	4.3	1.1	NM	8.1	238	NM	--	NM
GWC-18	2017	35	NM	3.9	--	0.0	6.2	106	30	--	0
GWC-18	2018	27	57	3.7	--	0.0	5.7	115	45	--	0
GWC-18	2019	25.5	41	5.1	--	2.3	3.3	156	150	1.2	0
GWC-19R	2007	91	116	5.7	1.0	1.6	1.7	-9	>350	NS	NM
GWC-19R	2008	98	111	5	1.0	2.2	2.2	53	280	--	0
GWC-19R	2009	62	75	5.2	--	3.4	1.5	95	175	--	0

Table A1
Summary of MNA Indicator Parameter Data (2007-2019)
Forsyth County - Hightower Rd MSWLF

Well	Date	Alkalinity (mg/L as CaCO ₃)	Total Dissolved Solids	Chloride	Sulfate	Ferrous Iron ¹	Dissolved Oxygen ¹	ORP (rel mV) ¹	Carbon Dioxide ¹	Nitrate Nitrogen	Methane in Well Headspace (%/vol)
GWC-19R	2010	65	74	4.7	--	3.0	7.0	44	175	0.021	0
GWC-19R	2011	57	82	3.9	1.1	2.0	1.3	121	240	0.015	0
GWC-19R	2012	67	74	3.5	--	1.2	4.9	153	200	--	0
GWC-19R	2013	110	72	3.2	1.4	0.6	4.8	118	165	--	0
GWC-19R	2014	48	85	2.7	1.3	1.4	2.3	136	120	--	0
GWC-19R	2015	45	69	2.5	1.1	2.0	3.1	61	155	--	0
GWC-19R	2016	57	68	2.1	2.2	0.5	1.0	108	250	--	NM
GWC-19R	2017	63	28	1.7	1.3	1.0	2.0	213	295	--	0
GWC-19R	2018	44	54	1.4	2.2	1.0	1.9	339	230	2.1	0
GWC-19R	2019	44	63	2	1.6	0.5	4.1	152	200	0.3	0
GWC-24	2007	39	51	1.9	1.0	0.0	4.6	145	70	NS	NM
GWC-24	2008	32	70	2	--	0.0	5.4	133	125	0.050	0
GWC-24	2009	29	25	2.6	1.6	0.0	4.7	59	95	--	0
GWC-24	2010	43	52	3.1	1.2	1.0	7.6	129	125	0.11	0
GWC-24	2011	30	64	2.4	1.4	0.8	3.4	188	180	0.18	0
GWC-24	2012	26	18	1.9	1.0	0.6	3.9	171	125	0.15	0
GWC-24	2013	30	54	2.1	1.3	0.0	3.4	148	35	0.10	0
GWC-24	2014	27	49	2	1.2	1.6	2.8	95	60	0.25	0
GWC-24	2015	26	51	1.7	1.1	1.6	2.0	118	100	--	0
GWC-24	2016	35	62	1.8	1.4	0.0	4.1	159	70	0.323	NM
GWC-24	2017	22	--	1.4	--	0.0	6.3	286	90	--	0
GWC-24	2018	32	48	1.7	1.0	1.2	4.1	157	85	--	0
GWC-24	2019	33.4	53	2.1	1.6	0.0	8.6	176	175	--	0
AMW SERIES WELLS											
AMW-4	2007	37	61	2.7	--	0.0	3.5	24	95	NS	0
AMW-4	2008	39	76	3	--	0.0	2.7	163	160	--	0
AMW-4	2009	44	60	3.5	--	0.0	2.6	63	100	--	0
AMW-4	2010	47	57	2.9	--	0.0	8.7	132	125	0.011	0
AMW-4	2011	39	68	3	--	0.0	1.0	255	80	0.014	NM
AMW-4	2012	36	36	2.7	--	0.8	3.1	160	75	--	NM
AMW-4	2013	38	70	3.2	0.64	0.4	4.3	212	110	--	NM
AMW-4	2014	40	67	2.8	--	0.0	2.3	341	100	--	0
AMW-4	2015	38	65	2.7	--	0.0	5.5	104	90	--	0
AMW-4	2016	40	75	2.7	--	0.2	2.4	235	100	0.0793	0
AMW-4	2017	38	42	2.8	--	0.5	5.4	222	90	--	0
AMW-4	2018	--	59	2.8	--	0.5	4.3	328	110	--	0
AMW-4	2019	41.2	60	3.5	--	0.5	2.6	232	135	--	0
AMW-5	2007	26	48	4.0	4.0	0.0	1.7	13	65	NS	NM
AMW-5	2008	27	83	4	3.0	0.0	5.8	181	80	0.020	0
AMW-5	2009	27	61	4	3.6	0.0	2.4	47	55	0.030	0
AMW-5	2010	28	44	3	2.9	0.0	3.9	127	40	0.022	0
AMW-5	2011	30	56	2	1.5	0.0	6.8	232	100	--	0
AMW-5	2012	27	38	3	3.0	0.4	2.4	108	40	--	NM
AMW-5	2013	68	57	3	3.3	0.0	2.2	117	50	0.051	NM
AMW-5	2014	33	65	3	2.6	0.1	5.4	315	85	--	0
AMW-5	2015	38	110	4	2.7	0.0	2.1	127	40	--	0
AMW-5	2016	34	77	4	2.9	0.0	1.7	224	75	0.0558	0
AMW-5	2017	32	26	4	1.8	0.0	6.4	218	105	--	0
AMW-5	2018	34	53	3.9	2.8	0.5	2.7	205	40	--	0
AMW-5	2019	31.9	60	4.1	3.3	0.5	2.0	178	60	--	0
AMW-14	2007	22	51	3.7	4.0	0.0	1.5	27	55	NS	NM
AMW-14	2008	26	67	4	3.0	0.0	0.9	179	60	0.10	0
AMW-14	2009	28	94	3.6	3.5	0.0	1.8	48	25	0.040	0
AMW-14	2010	32	50	3	3.1	0.0	7.8	99	45	0.013	0
AMW-14	2011	32	64	3	2.9	0.0	1.5	227	90	0.044	0
AMW-14	2012	29	36	3.1	2.6	0.0	4.5	48	25	0.11	NM
AMW-14	2013	29	69	3.4	2.8	0.4	5.7	168	35	0.12	NM

Table A1
Summary of MNA Indicator Parameter Data (2007-2019)
Forsyth County - Hightower Rd MSWLF

Well	Date	Alkalinity (mg/L as CaCO ₃)	Total Dissolved Solids	Chloride	Sulfate	Ferrous Iron ¹	Dissolved Oxygen ¹	ORP (rel mV) ¹	Carbon Dioxide ¹	Nitrate Nitrogen	Methane in Well Headspace (%/vol)
AMW-14	2014	34	62	3.4	2.4	0.0	2.4	173	35	0.12	0
AMW-14	2015	37	69	4.1	2.1	0.0	3.9	133	34	--	0
AMW-14	2016	35	100	3.8	2.5	0.0	1.8	230	60	--	0
AMW-14	2017	33	20	4.2	1.4	0.0	6.1	258	75	--	0
AMW-14	2018	35	61	4	2.4	0.0	3.3	309	90	--	0
AMW-14	2019	31.5	65	4.3	2.8	0.0	3.1	307	35	--	0

Notes: ¹ = Field Measurement

* = Data from surrogate well AMW-2 because GWC-16A was dry. Methane in well headspace is still measured from GWC-16.

Units are milligrams per liter (mg/L) unless otherwise noted.

-- = below laboratory reporting limit.

Acronyms: NM = not measured.

rel MV = relative millivolts

ORP = oxidation reduction potential

Table A2
Summary of MNA Indicator Parameter Concentration Averages (2007-2019)
Forsyth County - Hightower Rd MSWLF

Well	Average Alkalinity	Average Total Dissolved Solids	Average Chloride	Average Dissolved Oxygen	Average Oxidation-Reduction Potential	Average Carbon Dioxide
UNIMPACTED UPGRADIENT WELL						
PH1-GWA-4	7	19.80	1	8	198	27.8
PHASE I ASSESSMENT WELLS						
PH1-GWA-1	43	46	2	3	89	127
PH1-GWA-2	58	80	2	4	162	178
PH1-GWC-2	41	70	2	3	144	92
PH1-GWC-3	55	77	2.8	2.5	166	77
PH1-GWC-3A	72	102	1.6	3.4	150	43
PHASE II-IV ASSESSMENT WELLS						
GWC-8A	94	106	2.0	3.0	59	245
GWC-8R	99	113	1.9	2.3	56	85
GWC-14A	136	162	12	4.0	60	156
GWC-14R	118	144	3.6	2.5	109	96
GWC-16A	133	185	3.0	4.0	167	98
GWC-17	60	76	2.2	3.5	114	115
GWC-18	31	51	4.2	4.6	136	90
GWC-19R	65	75	3.4	2.9	122	207
GWC-24	31	50	2.1	4.7	151	103
AMW SERIES WELLS						
AMW-4	40	61	2.9	3.7	190	105
AMW-5	34	60	3.4	3.5	161	64
AMW-14	31	62	3.7	3.4	170	51
<i>Background</i>						
PH1-GWA-4	7	19.80	1	8	198	27.8
<i>Downgradient</i>						
<i>Minimum</i>	31	46	1.6	2.3	56	43
<i>Maximum</i>	136	185	12	4.7	190	245
<i>Median</i>	58	76	2.8	3.4	144	98

Notes: Average = the arithmetic average of data collected from 2007 to 2019.

Units are milligrams per liter, except for Oxidation-Reduction Potential (millivolts).

Table A3a
Summary of Concentrations Above a GWPS
Forsyth County - Hightower Road MSWLF
June 2019 Sampling Event

Monitoring Well ID	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	70	5	5	2
PHASE I WELLS				
PH1-GWC-3	19	11	7.4	--
PH1-GWC-3A	11	8.8	5.7	--
PHASE II - IV WELLS				
GWC-14A	46	--	--	4.3
GWC-14R	21	--	4.7	--
AMW-1	97	50	70	--
AMW-4	19	6.2	3.9	--
AMW-12	--	7.3	--	--

Notes: Groundwater samples collected on June 10-13, 2019 and July
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.

Acronyms: µg/L = micrograms per liter
cis-1,2-DCE = cis-1,2-Dichloroethene;
PCE = Tetrachloroethene; TCE = Trichloroethene
GWPS = Groundwater Protection Standard

Table A3b
Summary of Concentrations Above a GWPS
Forsyth County - Hightower Road MSWLF
December 2019 Sampling Event

Monitoring Well ID	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	70	5	5	2
PHASE I WELLS				
PH1-GWA-2	120	<u>2.4</u>	7.3	--
PH1-GWC-2	5.7	6.3	2.6	--
PH1-GWC-3	27	13	8.7	--
PH1-GWC-3A	16	7.4	8.4	--
PHASE II - IV WELLS				
GWC-14A	65	--	3.1	4.0
GWC-18	30	7.4	<u>2.6</u>	--
AMW-1	51	31	55	--
AMW-4	18	6.4	3.6	--
AMW-12R	--	8.0	--	--

Notes: Groundwater samples collected on December 9-13, 2019.

-- = Below laboratory reporting limit.

* No Region IX PRG; used EPA SL.

Shaded and bold values indicate concentrations above GWPS.

Acronyms: µg/L = micrograms per liter

NA = Not analyzed; not required.

NE = Not Established

cis-1,2-DCE = cis-1,2-Dichloroethene;

PCE = Tetrachloroethene; TCE = Trichloroethene

GWPS = Groundwater Protection Standard

Table A4
Summary of Total BTEX Detections (2002-2019)
Forsyth County - Hightower Rd MSWLF

Event	PH1-GWA-1	PH1-GWA-2	PH1-GWB-2	GWC-8	GWC-8A	GWC-8R	GWC-14A	GWC-16A	GWC-19R
5/6/2002	--	--	--	--	--	9.3	--	--	--
5/23/2005	--	--	--	--	--	--	--	NS	--
11/21/2005	--	--	--	--	11	--	6.3	NS	6.7
7/3/2006	--	--	--	--	--	--	--	NS	--
12/4/2006	--	3.3	3.0	--	5.0	--	3.0	14	--
5/1/2007	--	--	3.0	--	5.0	--	2.0	8.0	--
12/4/2007	NS	--	4.0	NS	6.0	--	--	NS	2.0
6/4/2008	NS	--	3.0	2	5.0	--	--	NS	--
12/2/2008	NS	--	4.2	NS	7.0	--	--	NS	--
6/2/2009	--	2.1	3.9	--	4.3	--	2.4	7.2	--
12/8/2009	--	2.7	2.3	--	3.7	--	2.2	10	--
6/28/2010	6.7	--	2.2	--	3.8	--	--	NS	--
12/15/2010	--	2.3	--	--	3.9	--	--	NS	NS
12/12/2011	--	--	--	--	3.9	2.3	2.6	NS	--
6/6/2012	--	--	--	--	3.5	--	2.3	NS	--
12/11/2012	--	--	--	--	5.8	2.1	2.5	NS	--
6/18/2013	--	--	--	--	3.2	--	--	2.4	--
12/13/2013	--	--	--	--	--	2.1	2.0	NS	--
6/9/2014	--	2	--	--	--	2.3	2.2	--	--
12/10/2014	--	--	--	--	3.1	2.2	2.4	--	--
6/23/2015	--	--	--	--	--	--	2.5	--	--
12/9/2015	10.0	--	--	--	2.7	--	2.3	9.1	--
6/13/2016	--	--	--	--	2.2	--	2.5	--	--
12/6/2016	--	--	--	--	3.2	--	2.3	--	--
6/16/2017	--	--	--	--	2.3	--	2.8	3.2	--
12/14/2017	--	--	--	--	3.8	--	3.0	--	--
6/21/2018	--	--	--	--	2.7	--	2.8	--	--
12/20/2018	5.1	--	--	--	3.3	--	2.5	--	--
6/13/2019	--	--	--	--	--	--	2.1	--	--
12/9/2019	--	--	--	--	2.8	--	2.6	--	--

Notes: Values are combined totals of benzene, ethylbenzene, toluene, and xylenes concentrations.

-- = Total BTEX concentrations below laboratory reporting limits

NS = Not sampled.

Table A5
Summary of SSIs & GWPS Exceedances (2007-2019)
Forsyth County - Hightower Rd MSWLF

Event	Total Number of Sample Concentrations Above a GWPS	Total Number of SSIs	SSIs with GWPS Exceedances	Number of Dry Wells
First 2007	29	57	25	1
Second 2007	26	63	31	9
First 2008	15	44	13	6
Second 2008	23	25	10	6
First 2009	34	64	26	1
Second 2009	25	46	17	0
First 2010	17	39	13	2
Second 2010	14	41	11	5
First 2011	22	54	12	1
Second 2011	14	46	11	11
First 2012	16	56	12	7
Second 2012	15	51	13	13
First 2013	19	65	12	0
Second 2013	12	55	11	1
First 2014	25	62	18	0
Second 2014	13	62	11	3
First 2015	11	57	9	1
Second 2015	16	65	15	0
First 2016	8	53	7	2
Second 2016	12	55	10	6
First 2017	14	58	9	3
Second 2017	10	52	9	6
First 2018	12	49	9	1
Second 2018	11	52	8	5
First 2019	14	51	8	3
Second 2019	13	64	11	6

Notes:

SSI = statistically significant increase

GWPS = Groundwater Protection Standard is the EPA Maximum Contaminant Level (MCL) or the EPA Region IX Preliminary Remediation Goals (PRG), if a MCL is not established.

**ATTACHMENT B
FIGURES**

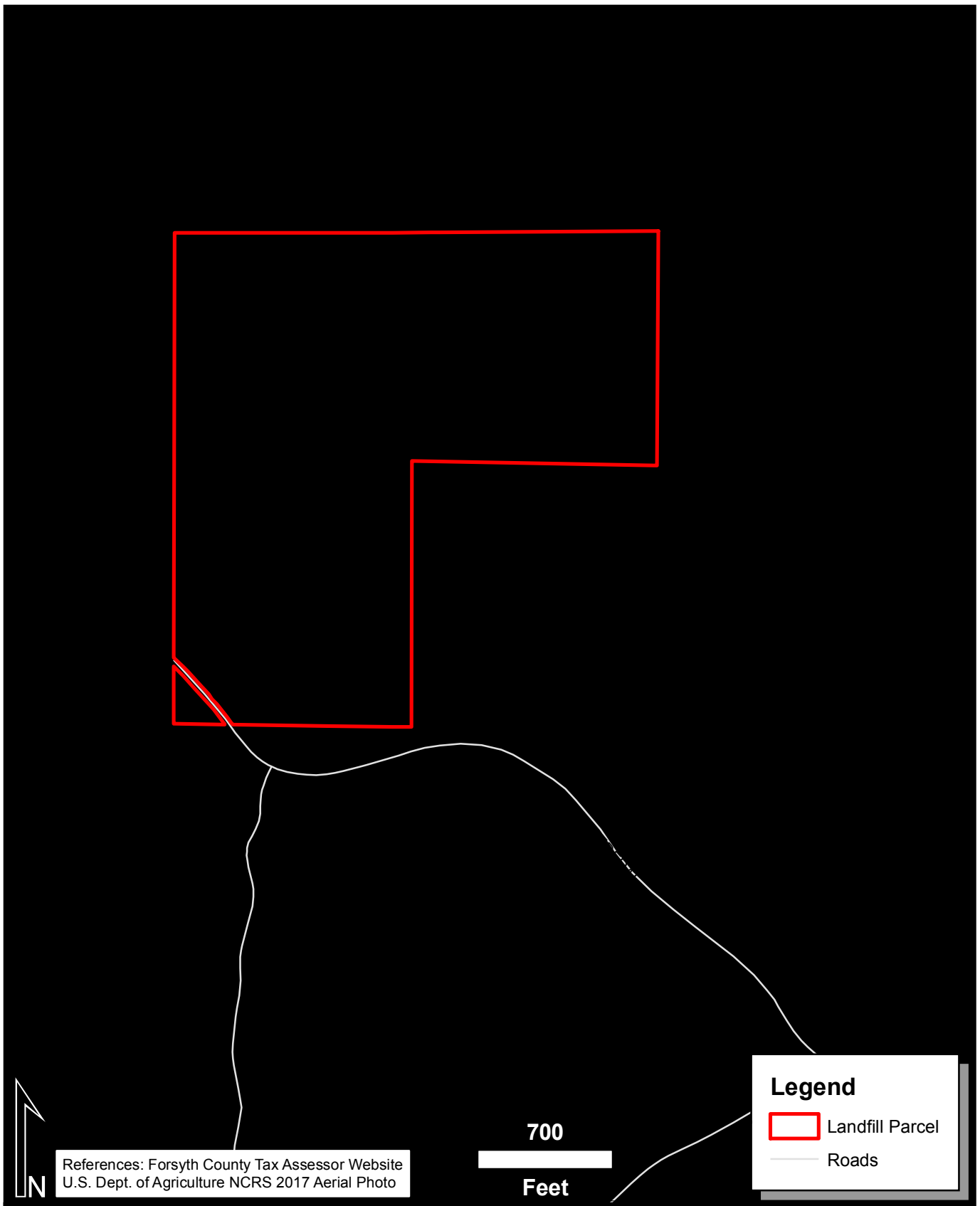
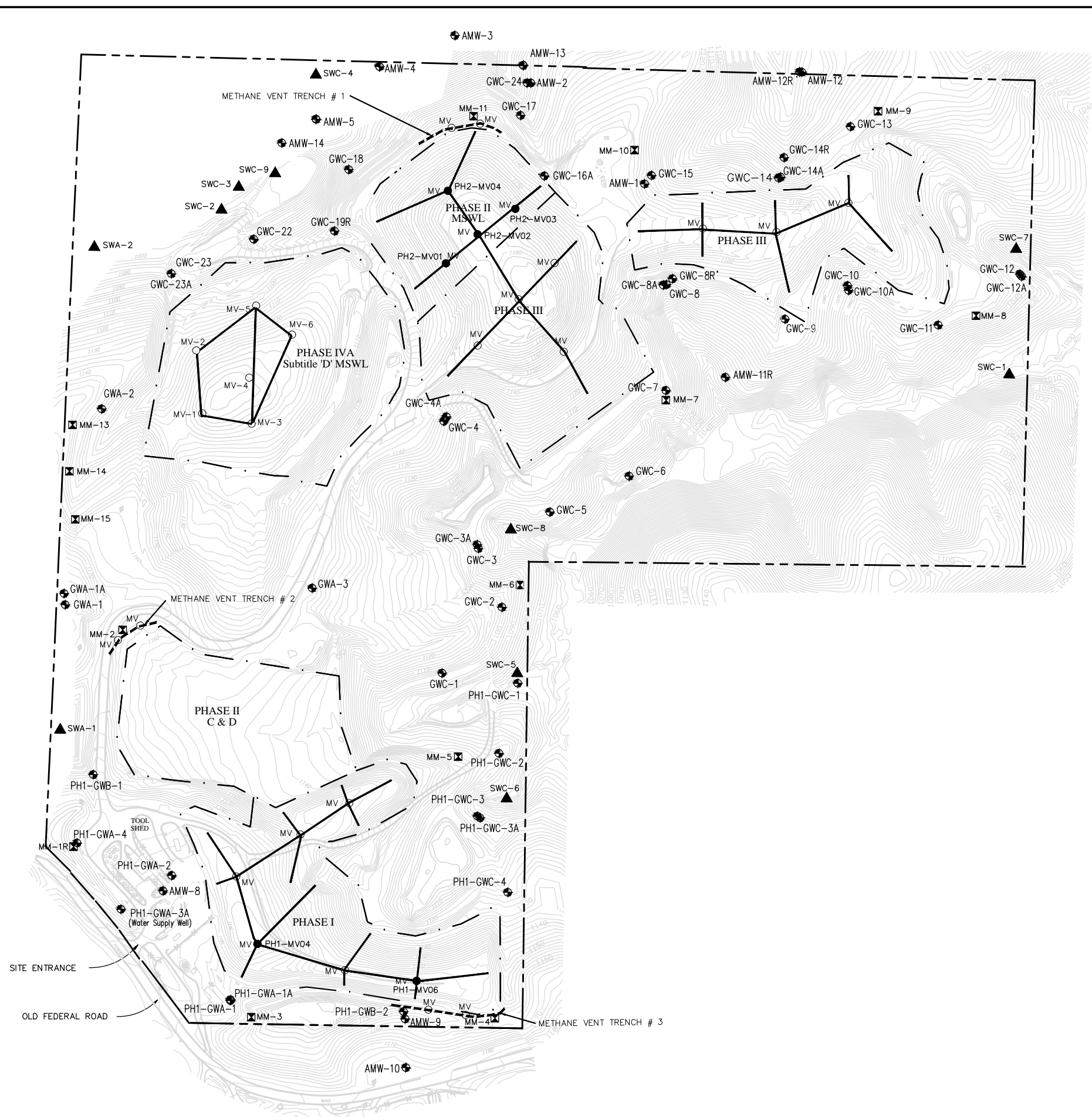


Figure A1
Site Location Map
Hightower Road Landfill
Forsyth County, GA

P:\Governmental\Forsyth County\13-2019 Environmental Monitoring Services\1 - 2nd 2019 GWM Event\ATTACH B - CMSE\Figures\Fig A02 Forsyth Site Plan 2020.dwg 2020-03-09 CHARLES ADAMS



LEGEND

	APPROXIMATE PHASE BOUNDARY
	TOPOGRAPHIC CONTOUR
	PROPERTY LINE
	TREELINE
	ROAD
	GWA-1 GROUNDWATER MONITORING WELL
	SWA-4 SURFACE WATER SAMPLE LOCATIONS
	MM-1 METHANE MONITORING POINT
	PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
	MV METHANE VENT
	METHANE VENT TRENCH
	METHANE VENT SYSTEM

- NOTES:**
1. WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO. DRAWINGS DATED MARCH 3, 1996.
 2. SURVEY PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.



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PROJECT:
FORSYTH COUNTY HIGHTOWER ROAD LANDFILL

FORSYTH COUNTY, GA

FORSYTH COUNTY



FORSYTH COUNTY GOVERNMENT
 110 E. MAIN STREET, SUITE 210
 CUMMING, GA 30040
 770-781-2100

Drawn by: MM Checked by: CA

PROJECT NUMBER:
G020-109
 March 2020

SITE PLAN
 FIGURE **A2**

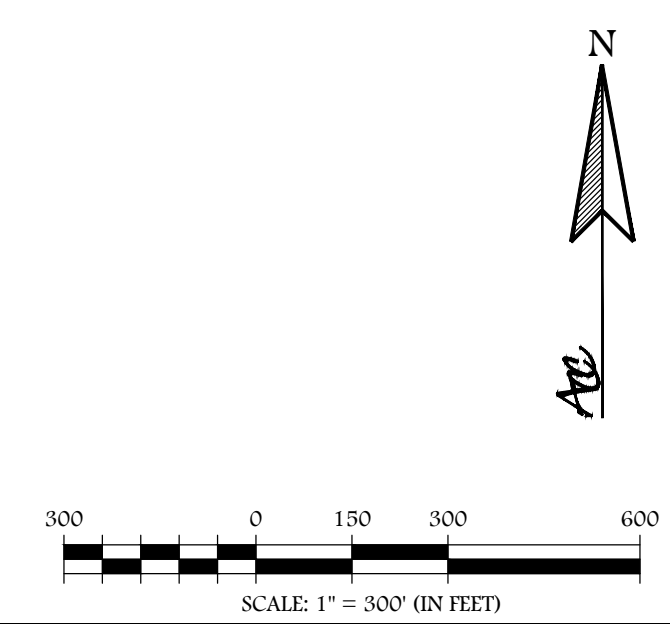


Figure A3(a) Molar Concentration Trend (PH1-GWA-2)

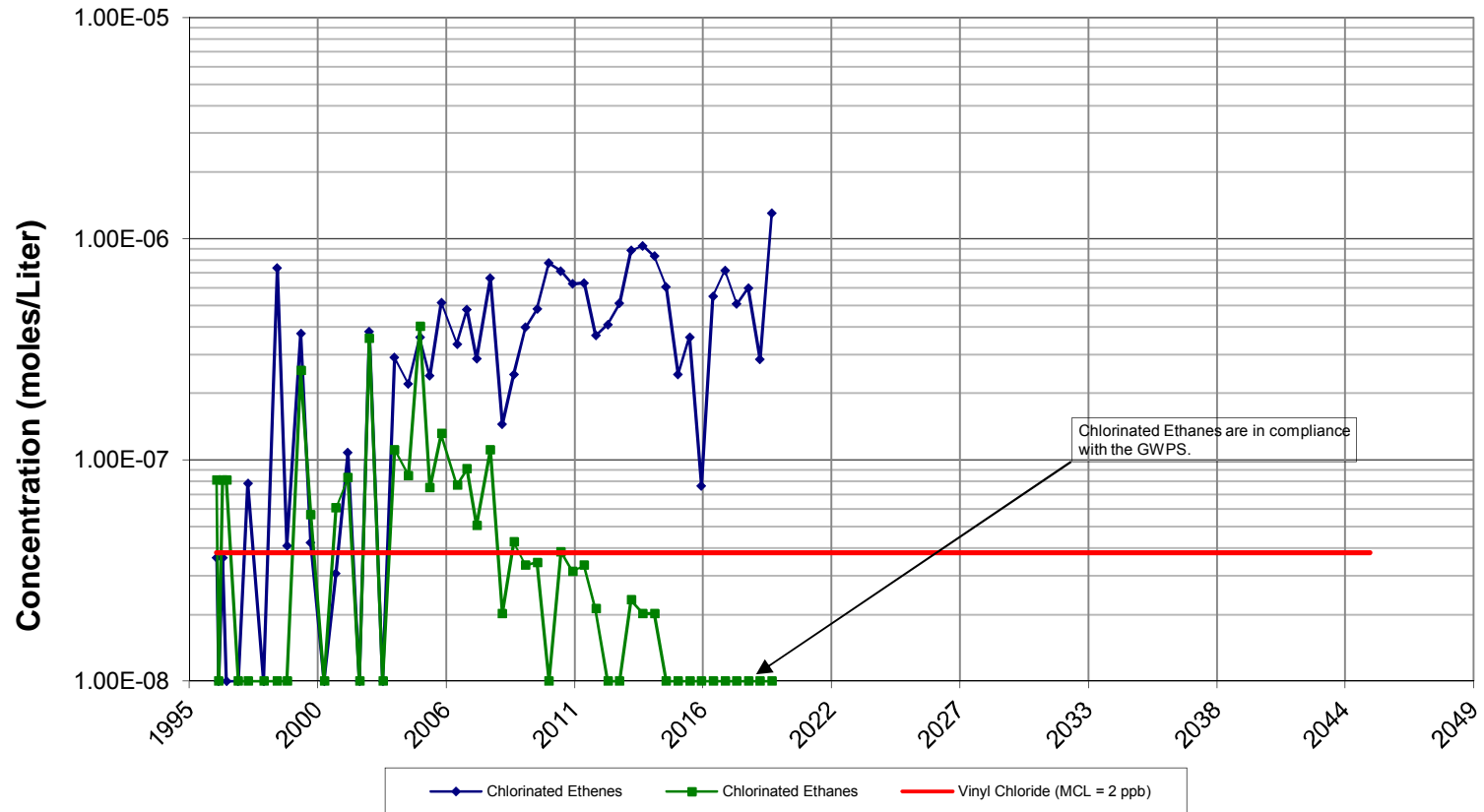


Figure A3(b) Molar Plot Degradation Series (PH1-GWA-2)

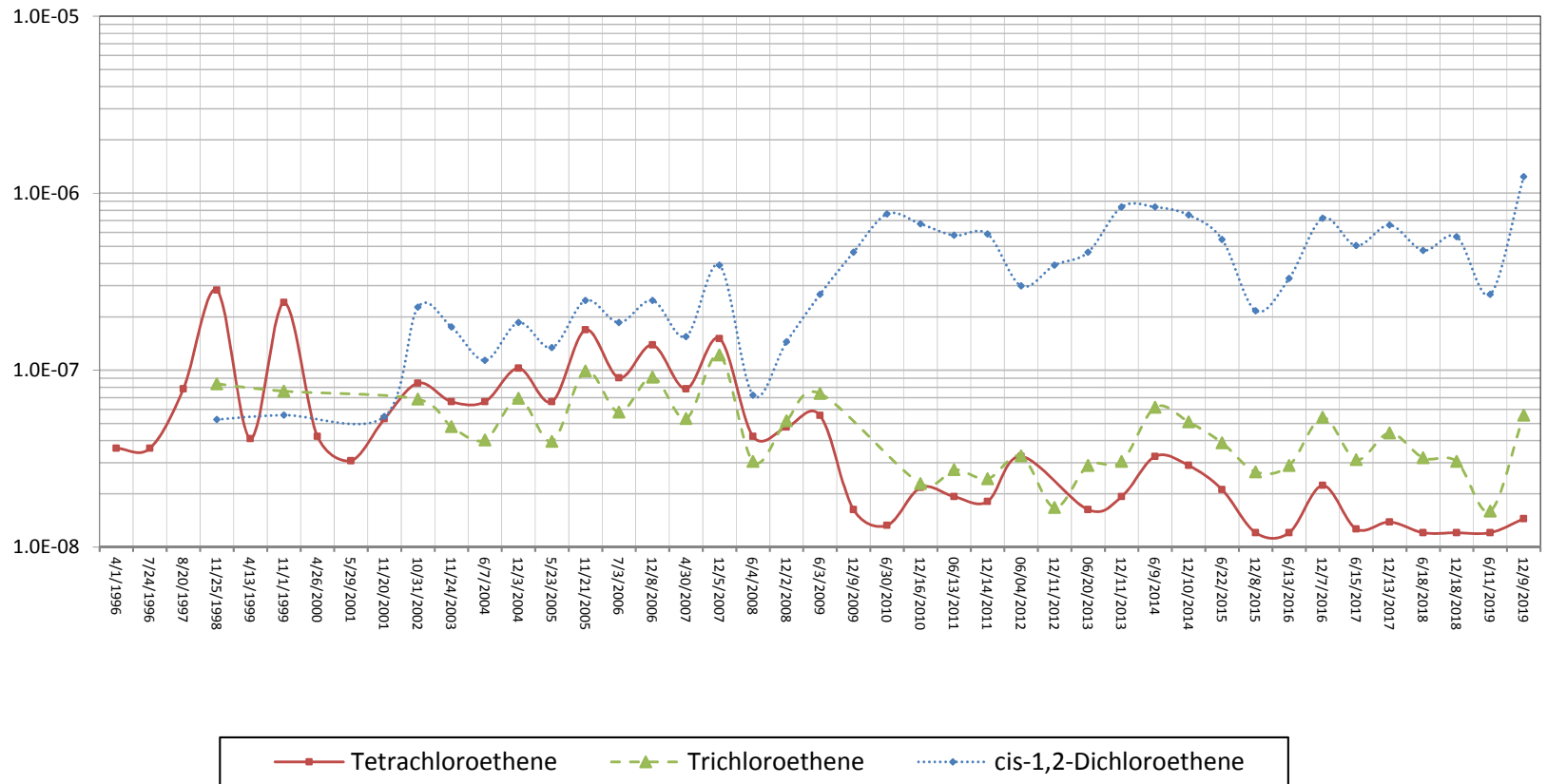


Figure A4 Molar Concentration Trend (PH1-GWC-2)

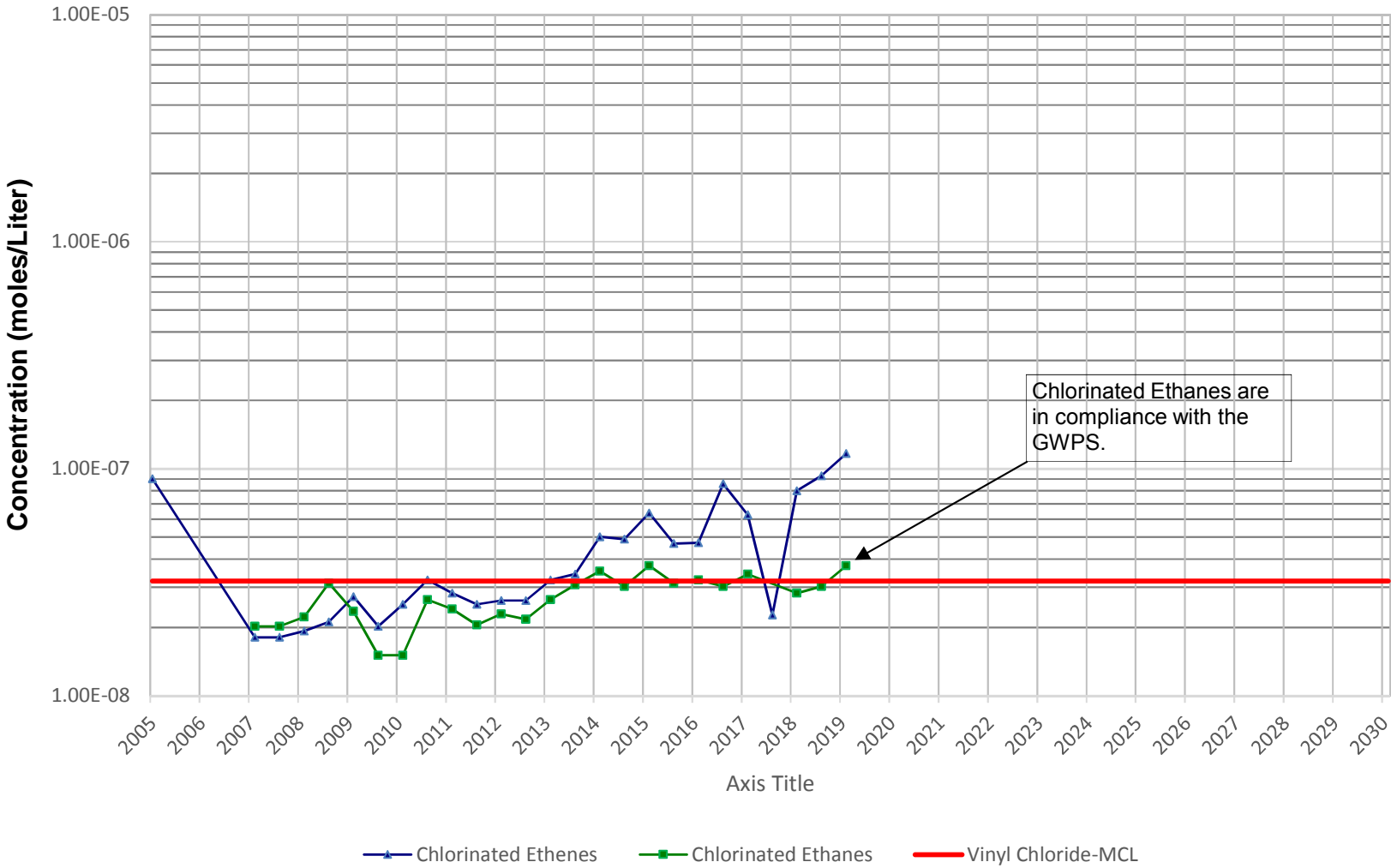


Figure A5 Molar Concentration Trend (PH1-GWC-3)

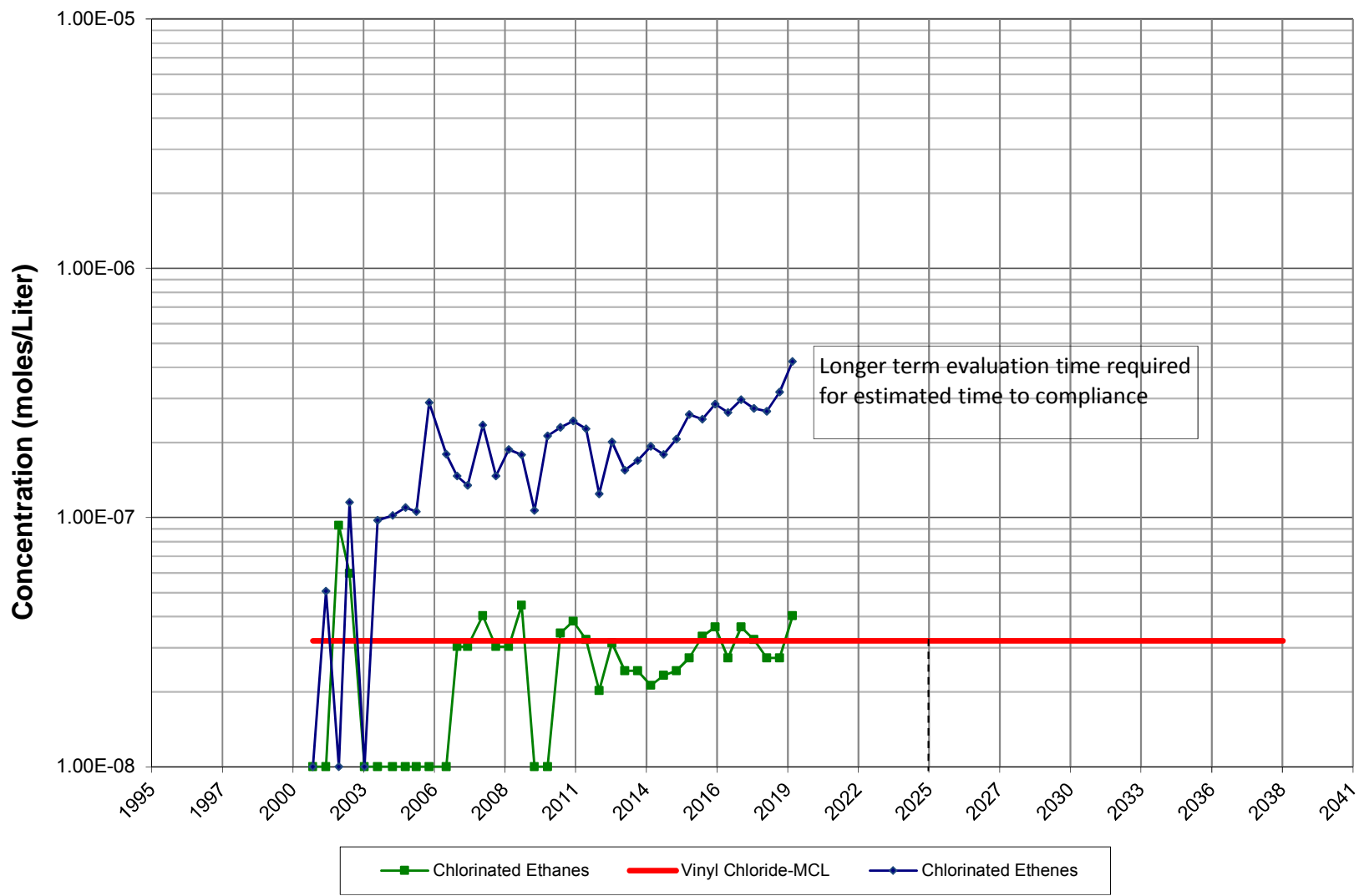


Figure A6 Molar Concentration Trend (PH1-GWC-3A)

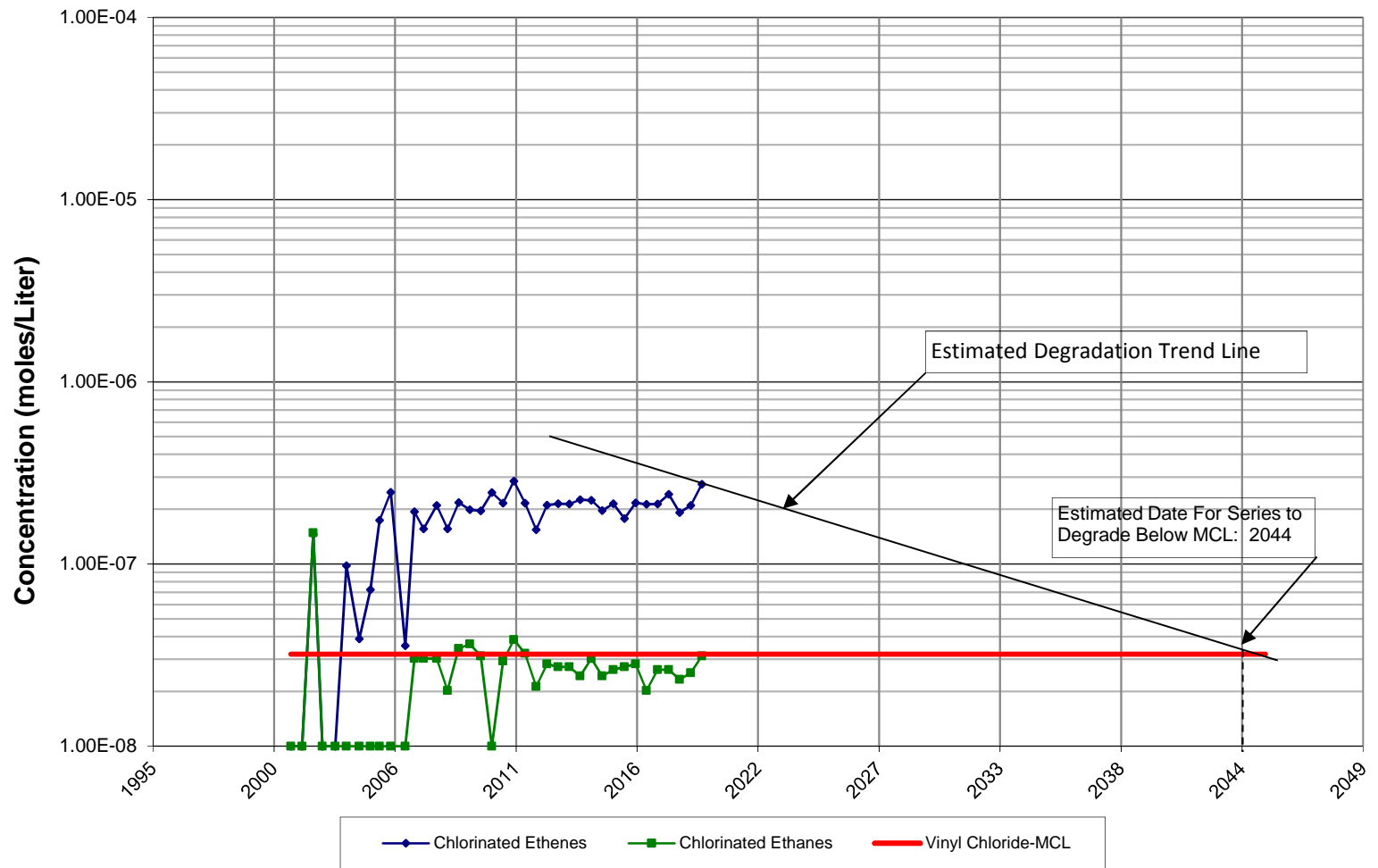


Figure A7 Molar Concentration Trend (GWC-14A)

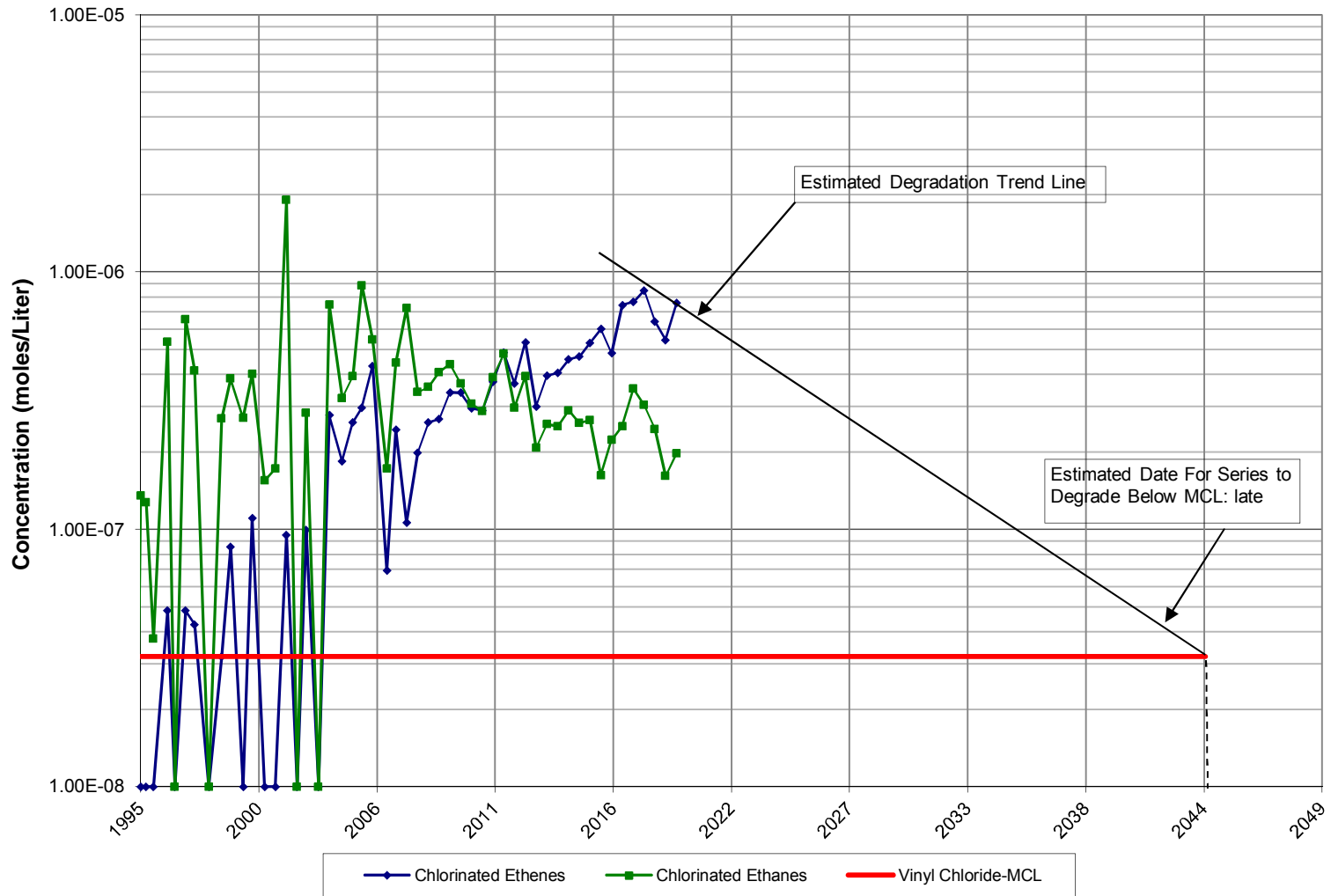


Figure A8 Molar Concentration Trend (GWC-14R)

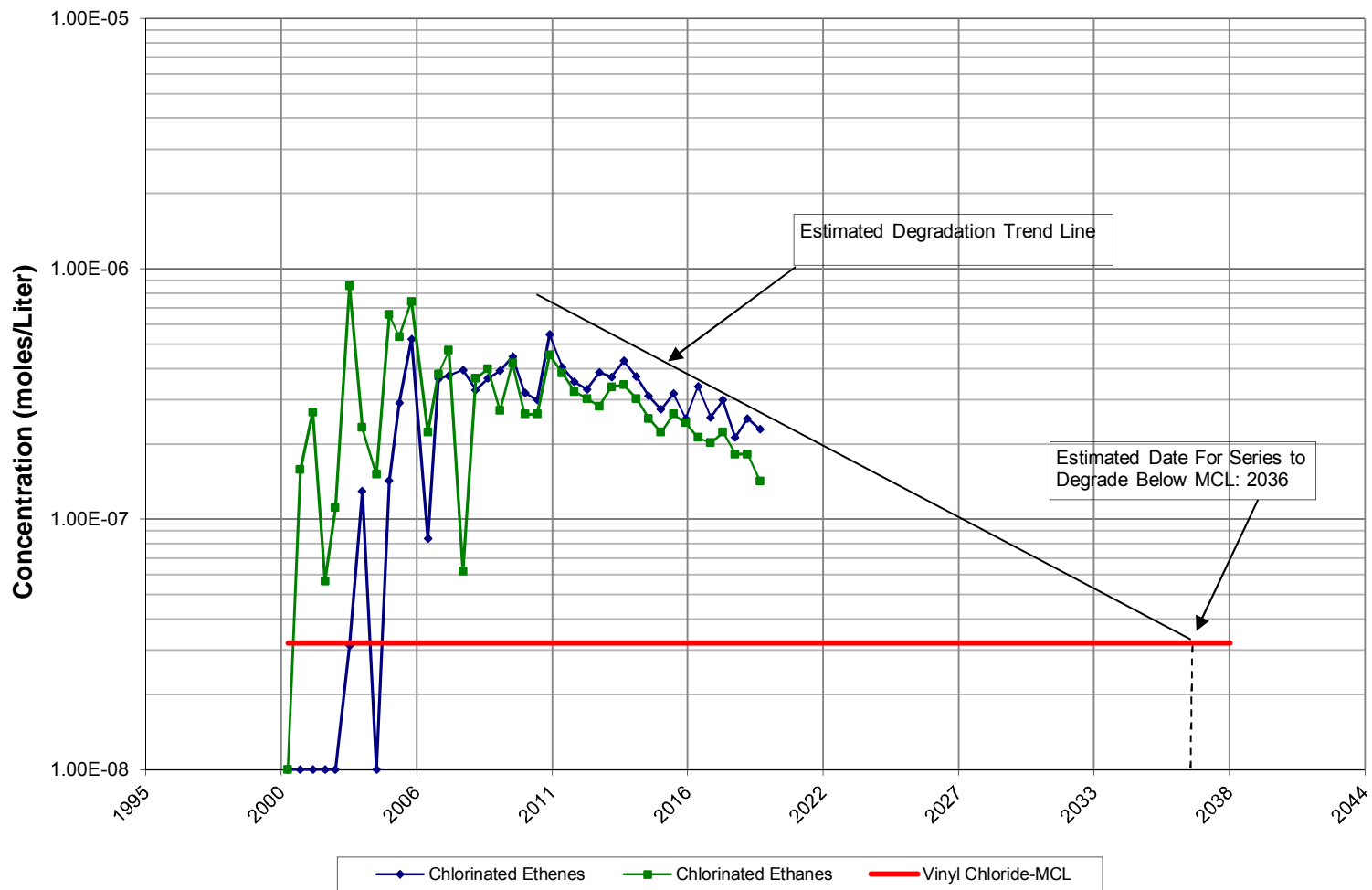


Figure A9 Molar Concentration Trend (GWC-15/AMW-1)

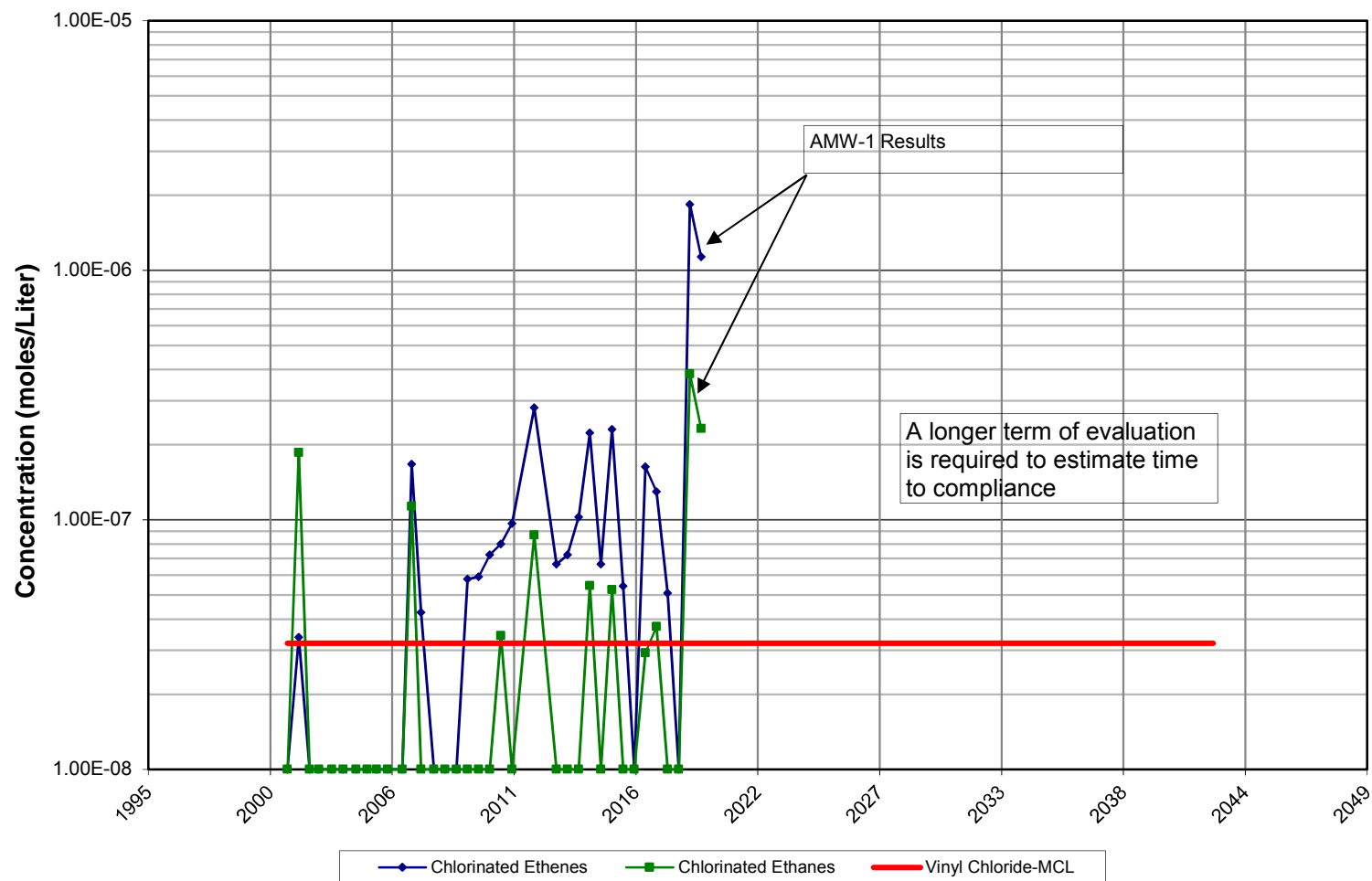


Figure A10 Molar Concentration Trend (GWC-16A/AMW-2)

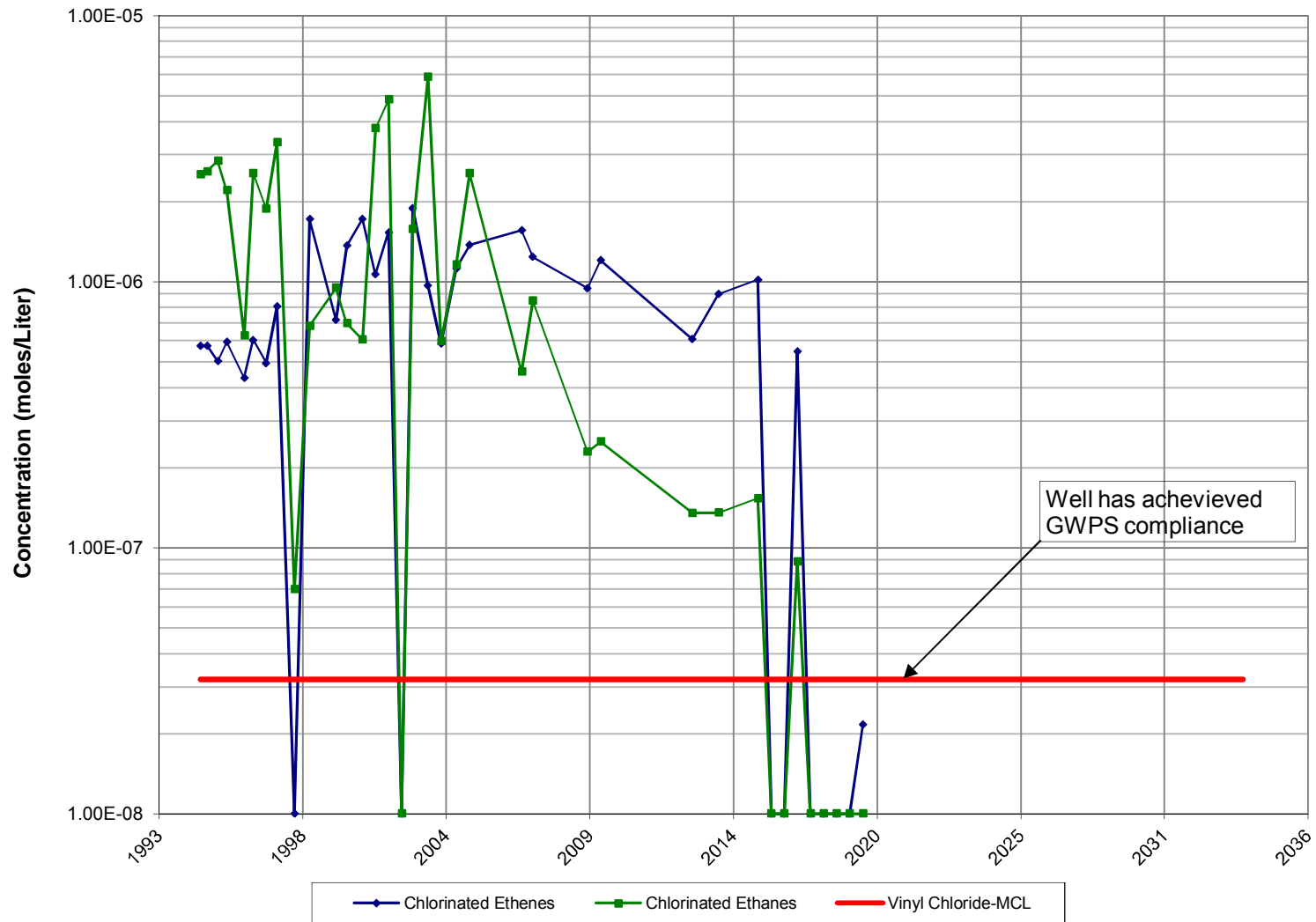


Figure A11 Molar Concentration Trend (GWC-18)

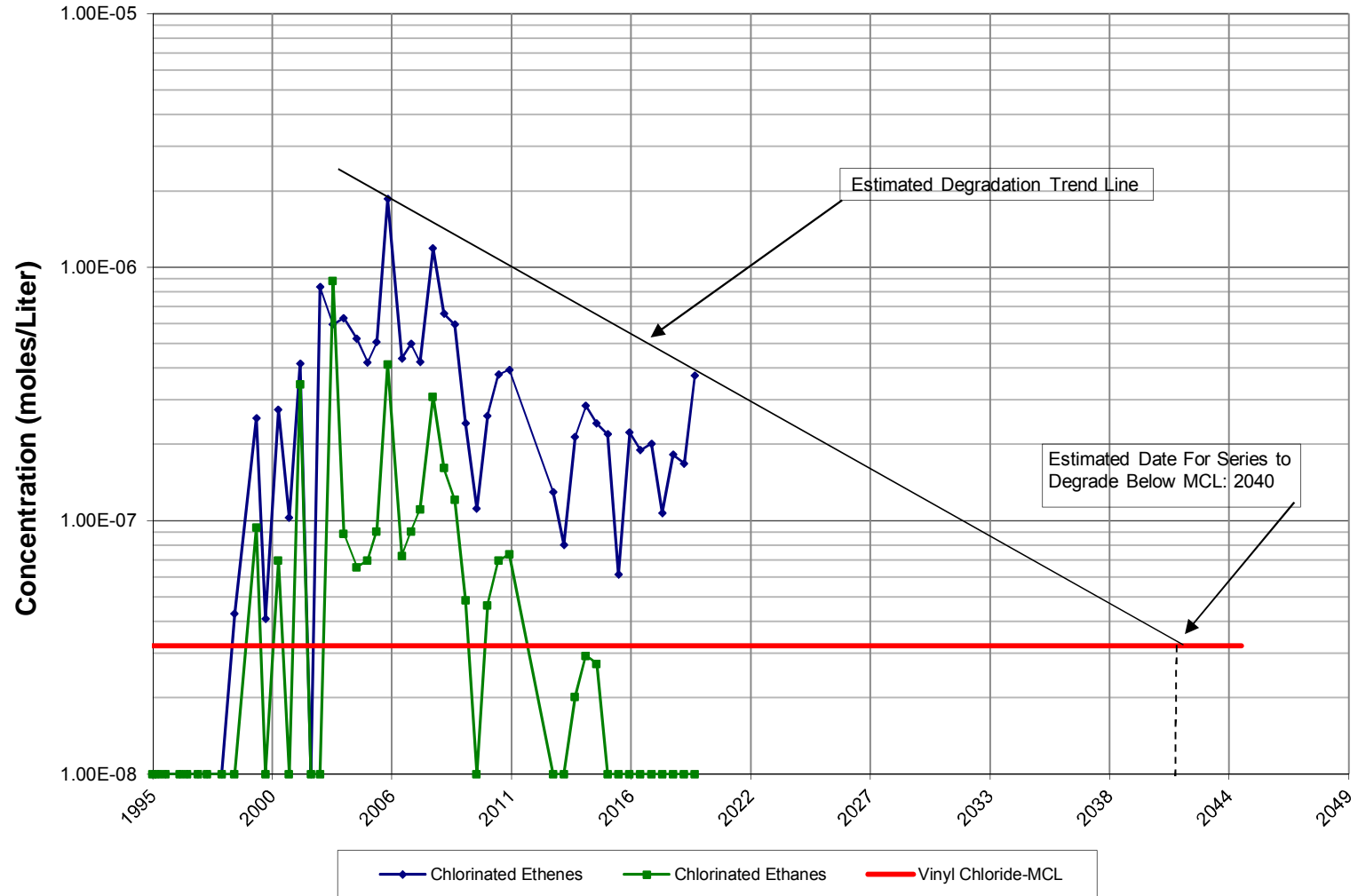


Figure A12 Molar Concentration Trend (AMW-4)

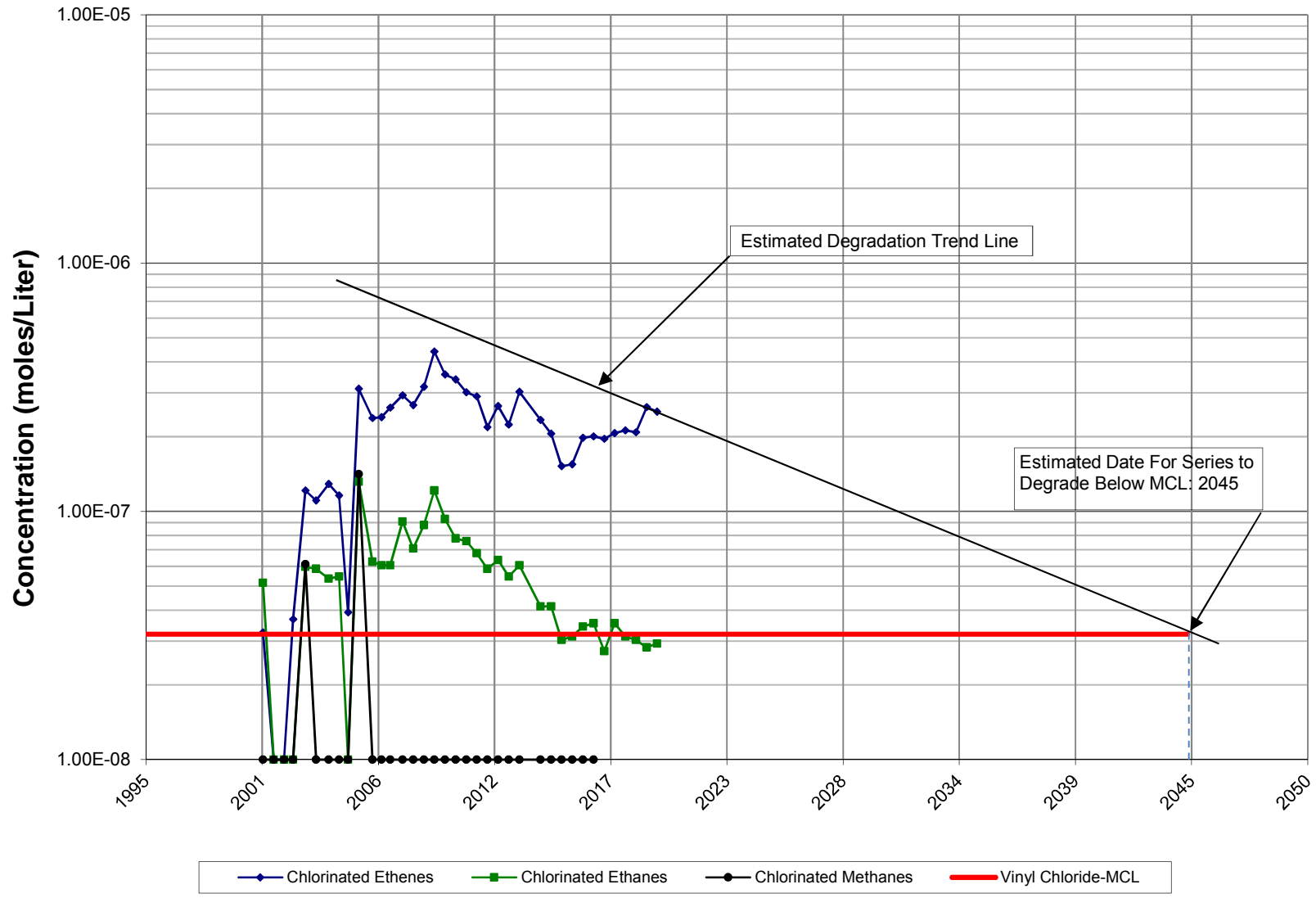
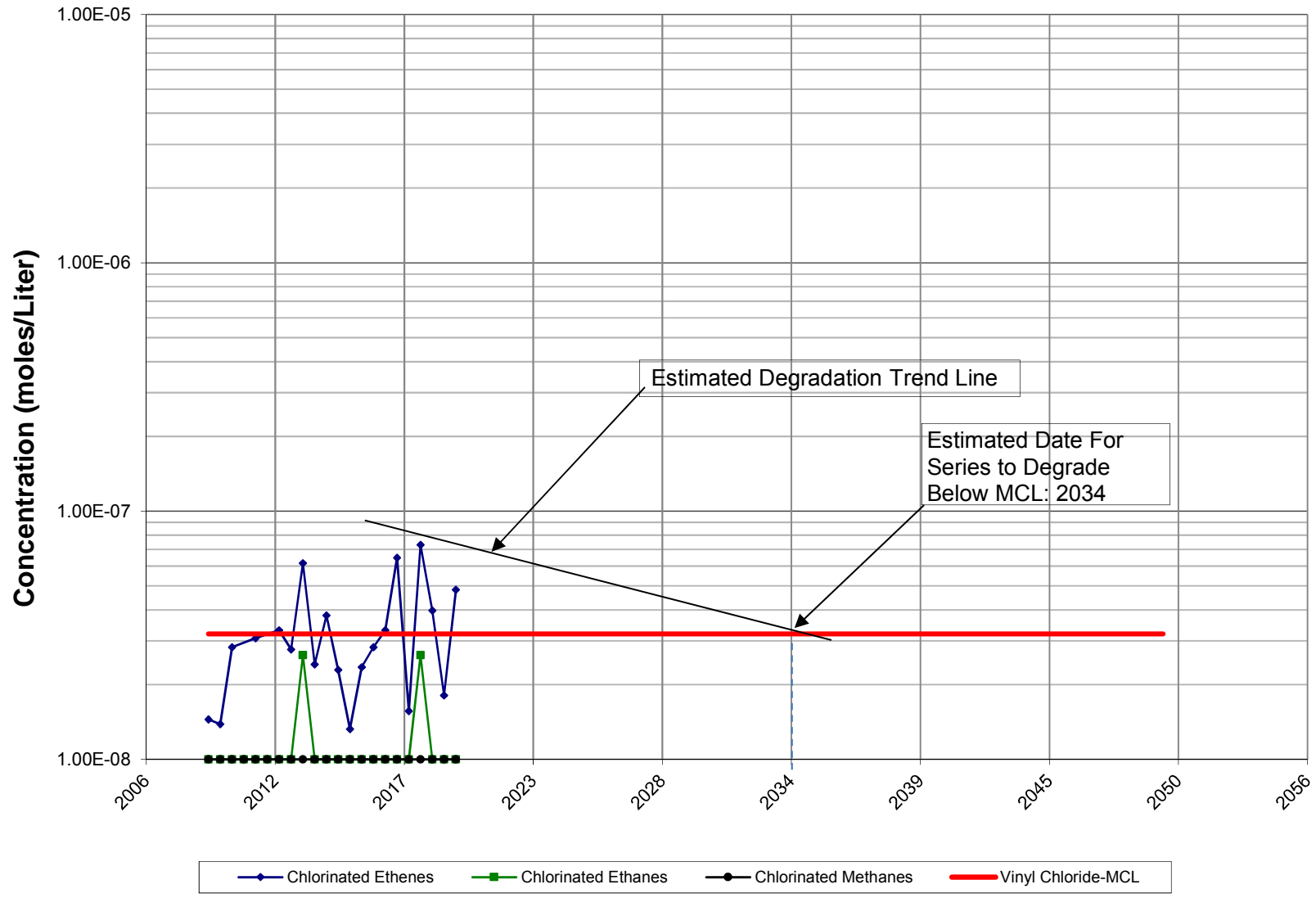


Figure A13 Molar Concentration Trend (AMW-12R)



ATTACHMENT C
STATISTICAL ANALYSIS

**STATISTICAL ANALYSIS:
Kruskal-Wallis Non-Parametric Test**

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2019 Groundwater Monitoring Event
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-2	FALSE	1%
1,1-Dichloroethane	PH1-GWB-1	FALSE	1%
1,1-Dichloroethane	PH1-GWB-2	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	1%
1,1-Dichloroethane	PH1-GWC-2	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	1%
1,1-Dichloroethane	PH1-GWC-4	FALSE	1%
1,1-Dichloroethane	GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-2	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-4	FALSE	0.45%
1,1-Dichloroethane	GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-1	FALSE	0.45%
Benzene	PH1-GWA-1	FALSE	5%
Benzene	PH1-GWA-2	FALSE	5%
Benzene	PH1-GWB-1	FALSE	5%
Benzene	PH1-GWB-2	FALSE	5%
Benzene	PH1-GWA-1A	FALSE	5%
Benzene	PH1-GWC-2	FALSE	5%
Benzene	PH1-GWC-3	FALSE	5%
Benzene	PH1-GWC-3A	FALSE	5%
Benzene	PH1-GWC-4	FALSE	5%
Benzene	GWC-1	FALSE	5%
Benzene	PH1-GWC-1	FALSE	5%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phase I
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	0.45%
cis-1,2-Dichloroethene	GWC-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1	FALSE	1%
Tetrachloroethene	PH1-GWA-2	FALSE	1%
Tetrachloroethene	PH1-GWB-1	FALSE	1%
Tetrachloroethene	PH1-GWB-2	FALSE	1%
Tetrachloroethene	PH1-GWA-1A	FALSE	1%
Tetrachloroethene	PH1-GWC-2	TRUE	1%
Tetrachloroethene	PH1-GWC-3	TRUE	1%
Tetrachloroethene	PH1-GWC-3A	TRUE	1%
Tetrachloroethene	PH1-GWC-4	FALSE	1%
Tetrachloroethene	GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-2	FALSE	0.45%
Tetrachloroethene	PH1-GWB-1	FALSE	0.45%
Tetrachloroethene	PH1-GWB-2	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1A	FALSE	0.45%
Tetrachloroethene	PH1-GWC-2	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3A	TRUE	0.45%
Tetrachloroethene	PH1-GWC-4	FALSE	0.45%
Tetrachloroethene	GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWC-1	FALSE	0.45%
Total Barium	PH1-GWA-1	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phase I
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	PH1-GWA-1A	TRUE	1%
Total Barium	PH1-GWA-2	TRUE	1%
Total Barium	PH1-GWB-1	TRUE	1%
Total Barium	PH1-GWB-2	FALSE	1%
Total Barium	PH1-GWC-2	FALSE	1%
Total Barium	PH1-GWC-3	TRUE	1%
Total Barium	PH1-GWC-3A	TRUE	1%
Total Barium	PH1-GWC-4	TRUE	1%
Total Barium	GWC-1	TRUE	1%
Total Barium	PH1-GWC-1	TRUE	1%
Total Barium	PH1-GWA-1	FALSE	0.45%
Total Barium	PH1-GWA-1A	TRUE	0.45%
Total Barium	PH1-GWA-2	TRUE	0.45%
Total Barium	PH1-GWB-1	TRUE	0.45%
Total Barium	PH1-GWB-2	FALSE	0.45%
Total Barium	PH1-GWC-2	FALSE	0.45%
Total Barium	PH1-GWC-3	FALSE	0.45%
Total Barium	PH1-GWC-3A	TRUE	0.45%
Total Barium	PH1-GWC-4	TRUE	0.45%
Total Barium	GWC-1	TRUE	0.45%
Total Barium	PH1-GWC-1	TRUE	0.45%
Total Chromium	PH1-GWA-1	FALSE	1%
Total Chromium	PH1-GWA-1A	FALSE	1%
Total Chromium	PH1-GWA-2	FALSE	1%
Total Chromium	PH1-GWB-1	FALSE	1%
Total Chromium	PH1-GWB-2	FALSE	1%
Total Chromium	PH1-GWC-2	FALSE	1%
Total Chromium	PH1-GWC-3	FALSE	1%
Total Chromium	PH1-GWC-3A	FALSE	1%
Total Chromium	PH1-GWC-4	FALSE	1%
Total Chromium	GWC-1	FALSE	1%
Total Chromium	PH1-GWC-1	FALSE	1%
Total Chromium	PH1-GWA-1	FALSE	0.45%
Total Chromium	PH1-GWA-1A	FALSE	0.45%
Total Chromium	PH1-GWA-2	FALSE	0.45%
Total Chromium	PH1-GWB-1	FALSE	0.45%
Total Chromium	PH1-GWB-2	FALSE	0.45%
Total Chromium	PH1-GWC-2	FALSE	0.45%
Total Chromium	PH1-GWC-3	FALSE	0.45%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phase I
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	PH1-GWC-3A	FALSE	0.45%
Total Chromium	PH1-GWC-4	FALSE	0.45%
Total Chromium	GWC-1	FALSE	0.45%
Total Chromium	PH1-GWC-1	FALSE	0.45%
Total Cobalt	PH1-GWA-1	TRUE	1%
Total Cobalt	PH1-GWA-1A	FALSE	1%
Total Cobalt	PH1-GWA-2	FALSE	1%
Total Cobalt	PH1-GWB-1	FALSE	1%
Total Cobalt	PH1-GWB-2	FALSE	1%
Total Cobalt	PH1-GWC-2	FALSE	1%
Total Cobalt	PH1-GWC-3	FALSE	1%
Total Cobalt	PH1-GWC-3A	FALSE	1%
Total Cobalt	PH1-GWC-4	FALSE	1%
Total Cobalt	GWC-1	FALSE	1%
Total Cobalt	PH1-GWC-1	FALSE	1%
Total Cobalt	PH1-GWA-1	TRUE	0.45%
Total Cobalt	PH1-GWA-1A	FALSE	0.45%
Total Cobalt	PH1-GWA-2	FALSE	0.45%
Total Cobalt	PH1-GWB-1	FALSE	0.45%
Total Cobalt	PH1-GWB-2	FALSE	0.45%
Total Cobalt	PH1-GWC-2	FALSE	0.45%
Total Cobalt	PH1-GWC-3	FALSE	0.45%
Total Cobalt	PH1-GWC-3A	FALSE	0.45%
Total Cobalt	PH1-GWC-4	FALSE	0.45%
Total Cobalt	GWC-1	FALSE	0.45%
Total Cobalt	PH1-GWC-1	FALSE	0.45%
Total Copper	PH1-GWA-1	FALSE	5%
Total Copper	PH1-GWA-1A	FALSE	5%
Total Copper	PH1-GWA-2	FALSE	5%
Total Copper	PH1-GWB-1	FALSE	5%
Total Copper	PH1-GWB-2	FALSE	5%
Total Copper	PH1-GWC-2	FALSE	5%
Total Copper	PH1-GWC-3	FALSE	5%
Total Copper	PH1-GWC-3A	FALSE	5%
Total Copper	PH1-GWC-4	FALSE	5%
Total Copper	GWC-1	FALSE	5%
Total Copper	PH1-GWC-1	FALSE	5%
Total Nickel	PH1-GWA-1	FALSE	5%
Total Nickel	PH1-GWA-1A	FALSE	5%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2019 Groundwater Monitoring Event
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	PH1-GWA-2	FALSE	5%
Total Nickel	PH1-GWB-1	FALSE	5%
Total Nickel	PH1-GWB-2	FALSE	5%
Total Nickel	PH1-GWC-2	FALSE	5%
Total Nickel	PH1-GWC-3	FALSE	5%
Total Nickel	PH1-GWC-3A	FALSE	5%
Total Nickel	PH1-GWC-4	FALSE	5%
Total Nickel	GWC-1	FALSE	5%
Total Nickel	PH1-GWC-1	FALSE	5%
Total Zinc	PH1-GWA-1	TRUE	1%
Total Zinc	PH1-GWA-1A	FALSE	1%
Total Zinc	PH1-GWA-2	FALSE	1%
Total Zinc	PH1-GWB-1	FALSE	1%
Total Zinc	PH1-GWB-2	TRUE	1%
Total Zinc	PH1-GWC-2	FALSE	1%
Total Zinc	PH1-GWC-3	FALSE	1%
Total Zinc	PH1-GWC-3A	FALSE	1%
Total Zinc	PH1-GWC-4	FALSE	1%
Total Zinc	GWC-1	FALSE	1%
Total Zinc	PH1-GWC-1	FALSE	1%
Total Zinc	PH1-GWA-1	TRUE	0.45%
Total Zinc	PH1-GWA-1A	FALSE	0.45%
Total Zinc	PH1-GWA-2	FALSE	0.45%
Total Zinc	PH1-GWB-1	FALSE	0.45%
Total Zinc	PH1-GWB-2	TRUE	0.45%
Total Zinc	PH1-GWC-2	FALSE	0.45%
Total Zinc	PH1-GWC-3	FALSE	0.45%
Total Zinc	PH1-GWC-3A	FALSE	0.45%
Total Zinc	PH1-GWC-4	FALSE	0.45%
Total Zinc	GWC-1	FALSE	0.45%
Total Zinc	PH1-GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1	FALSE	1%
Trichloroethene	PH1-GWA-2	TRUE	1%
Trichloroethene	PH1-GWB-1	FALSE	1%
Trichloroethene	PH1-GWB-2	FALSE	1%
Trichloroethene	PH1-GWA-1A	FALSE	1%
Trichloroethene	PH1-GWC-2	FALSE	1%
Trichloroethene	PH1-GWC-3	TRUE	1%
Trichloroethene	PH1-GWC-3A	TRUE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2019 Groundwater Monitoring Event
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWC-4	FALSE	1%
Trichloroethene	GWC-1	FALSE	1%
Trichloroethene	PH1-GWC-1	FALSE	1%
Trichloroethene	PH1-GWA-1	FALSE	0.45%
Trichloroethene	PH1-GWA-2	TRUE	0.45%
Trichloroethene	PH1-GWB-1	FALSE	0.45%
Trichloroethene	PH1-GWB-2	FALSE	0.45%
Trichloroethene	PH1-GWA-1A	FALSE	0.45%
Trichloroethene	PH1-GWC-2	FALSE	0.45%
Trichloroethene	PH1-GWC-3	TRUE	0.45%
Trichloroethene	PH1-GWC-3A	TRUE	0.45%
Trichloroethene	PH1-GWC-4	FALSE	0.45%
Trichloroethene	GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWC-1	FALSE	0.45%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Kruskal-Wallis Non-Parametric Test

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/22/2015	ND<1	59.5
	12/7/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/9/2016	ND<1	59.5
	6/14/2017	ND<1	59.5
	12/11/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/17/2018	ND<1	59.5
	6/13/2019	ND<1	59.5
	12/12/2019	ND<1	59.5

Rank Sum = 714

Rank Mean = 59.5

PH1-GWA-4	6/9/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/22/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/12/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/18/2018	ND<1	59.5
	6/11/2019	ND<1	59.5
	12/9/2019	ND<1	59.5

Rank Sum = 714

Rank Mean = 59.5

Background Rank Sum = 1428

Background Rank Mean = 59.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/9/2014	ND<1	59.5
	12/10/2014	ND<1	59.5
	6/23/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/14/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/13/2017	ND<1	59.5
	12/13/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/18/2018	ND<1	59.5
	6/10/2019	ND<1	59.5

12/9/2019 ND<1 59.5

Rank Sum = 714

Rank Mean = 59.5

PH1-GWA-2	6/9/2014	2	119
	12/10/2014	2	120
	6/22/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/13/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/18/2018	ND<1	59.5
	6/11/2019	ND<1	59.5
	12/9/2019	ND<1	59.5

Rank Sum = 834

Rank Mean = 69.5

PH1-GWB-1	6/9/2014	ND<1	59.5
	12/9/2014	ND<1	59.5
	6/22/2015	ND<1	59.5
	12/7/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/12/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/17/2018	ND<1	59.5
	6/11/2019	ND<1	59.5
	12/10/2019	ND<1	59.5

Rank Sum = 714

Rank Mean = 59.5

PH1-GWB-2	6/9/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/8/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/11/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/17/2018	ND<1	59.5
	6/12/2019	ND<1	59.5
	12/12/2019	ND<1	59.5

Rank Sum = 714

Rank Mean = 59.5

PH1-GWA-1A	6/10/2014	ND<1	59.5
	12/8/2014	ND<1	59.5
	6/23/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/14/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/12/2017	ND<1	59.5
	12/13/2017	ND<1	59.5

1,1-Dichloroethane

6/19/2018	ND<1	59.5
12/18/2018	ND<1	59.5
6/10/2019	ND<1	59.5
12/10/2019	ND<1	59.5

Rank Sum = 714
Rank Mean = 59.5

PH1-GWC-2	6/10/2014	3.4	148
	12/11/2014	3.5	150
	6/23/2015	3	138
	12/8/2015	3.7	153
	6/14/2016	3.1	142
	12/7/2016	3.2	144
	6/13/2017	3	139
	12/13/2017	3.4	149
	6/19/2018	ND<1	59.5
	12/18/2018	2.8	136
	6/10/2019	3	140
	12/10/2019	3.7	154

Rank Sum = 1652.5
Rank Mean = 137.708

PH1-GWC-3	6/10/2014	2.1	122
	12/10/2014	2.3	123
	6/24/2015	2.4	125
	12/9/2015	2.7	131
	6/16/2016	3.3	146
	12/8/2016	3.6	151
	6/13/2017	2.7	132
	12/12/2017	3.6	152
	6/19/2018	3.2	145
	12/18/2018	2.7	133
	6/10/2019	3.3	147
	12/9/2019	4	155

Rank Sum = 1662
Rank Mean = 138.5

PH1-GWC-3A	6/10/2014	2.7	134
	12/10/2014	3	141
	6/24/2015	2.4	126
	12/9/2015	2.6	128
	6/16/2016	2.7	135
	12/8/2016	2.8	137
	6/13/2017	2	121
	12/12/2017	2.6	129
	6/19/2018	2.6	130
	12/18/2018	2.3	124
	6/10/2019	2.5	127
	12/9/2019	3.1	143

Rank Sum = 1575
Rank Mean = 131.25

PH1-GWC-4	6/11/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/7/2015	ND<1	59.5
	6/13/2016	ND<1	59.5

1,1-Dichloroethane

12/8/2016	ND<1	59.5
6/15/2017	ND<1	59.5
12/11/2017	ND<1	59.5
6/19/2018	ND<1	59.5
12/19/2018	ND<1	59.5
6/13/2019	ND<1	59.5

Rank Sum = 654.5
Rank Mean = 59.5

GWC-1	6/12/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/9/2015	ND<1	59.5
	6/14/2016	ND<1	59.5
	12/8/2016	ND<1	59.5
	6/13/2017	ND<1	59.5
	12/13/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/17/2018	ND<1	59.5
	6/13/2019	ND<1	59.5
	12/10/2019	ND<1	59.5

Rank Sum = 714
Rank Mean = 59.5

PH1-GWC-1	6/12/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/15/2016	ND<1	59.5
	12/8/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/11/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/19/2018	ND<1	59.5
	6/13/2019	ND<1	59.5
	12/11/2019	ND<1	59.5

Rank Sum = 714
Rank Mean = 59.5

Calculation Results:

Kruskal-Wallis H Statistic = 78.5204

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 140.517

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

78.5204 > 19.6752 indicating a significant group difference at 5% significance level

140.517 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 59.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	59.5	0	36.9204
PH1-GWA-2	69.5	10	36.9204
PH1-GWB-1	59.5	0	36.9204
PH1-GWB-2	59.5	0	36.9204
PH1-GWA-1A	59.5	0	36.9204

1,1-Dichloroethane

PH1-GWC-2	137.708	78.2083	36.9204
PH1-GWC-3	138.5	79	36.9204
PH1-GWC-3A	131.25	71.75	36.9204
PH1-GWC-4	59.5	0	38.0227
GWC-1	59.5	0	36.9204
PH1-GWC-1	59.5	0	36.9204

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 59.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	59.5	0	42.0901
PH1-GWA-2	69.5	10	42.0901
PH1-GWB-1	59.5	0	42.0901
PH1-GWB-2	59.5	0	42.0901
PH1-GWA-1A	59.5	0	42.0901
PH1-GWC-2	137.708	78.2083	42.0901
PH1-GWC-3	138.5	79	42.0901
PH1-GWC-3A	131.25	71.75	42.0901
PH1-GWC-4	59.5	0	43.3468
GWC-1	59.5	0	42.0901
PH1-GWC-1	59.5	0	42.0901

Benzene

Kruskal-Wallis Non-Parametric Test

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<1	77.5
	12/11/2014	ND<1	77.5
	6/22/2015	ND<1	77.5
	12/7/2015	ND<1	77.5
	6/13/2016	ND<1	77.5
	12/9/2016	ND<1	77.5
	6/14/2017	ND<1	77.5
	12/11/2017	ND<1	77.5
	6/18/2018	ND<1	77.5
	12/17/2018	ND<1	77.5
	6/13/2019	ND<1	77.5
	12/12/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

PH1-GWA-4	6/9/2014	ND<1	77.5
	12/11/2014	ND<1	77.5
	6/22/2015	ND<1	77.5
	12/8/2015	ND<1	77.5
	6/13/2016	ND<1	77.5
	12/7/2016	ND<1	77.5
	6/15/2017	ND<1	77.5
	12/12/2017	ND<1	77.5
	6/18/2018	ND<1	77.5
	12/18/2018	ND<1	77.5
	6/11/2019	ND<1	77.5
	12/9/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

Background Rank Sum = 1860

Background Rank Mean = 77.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/9/2014	ND<1	77.5
	12/10/2014	ND<1	77.5
	6/23/2015	ND<1	77.5
	12/8/2015	ND<1	77.5
	6/14/2016	ND<1	77.5
	12/7/2016	ND<1	77.5
	6/13/2017	ND<1	77.5
	12/13/2017	ND<1	77.5
	6/19/2018	ND<1	77.5
	12/18/2018	ND<1	77.5
	6/10/2019	ND<1	77.5

Benzene

	12/9/2019	ND<1	77.5
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Rank Sum = 930

Rank Mean = 77.5

PH1-GWA-2	6/9/2014	2	155
	12/10/2014	ND<1	77.5
	6/22/2015	ND<1	77.5
	12/8/2015	ND<1	77.5
	6/13/2016	ND<1	77.5
	12/7/2016	ND<1	77.5
	6/15/2017	ND<1	77.5
	12/13/2017	ND<1	77.5
	6/18/2018	ND<1	77.5
	12/18/2018	ND<1	77.5
	6/11/2019	ND<1	77.5
	12/9/2019	ND<1	77.5

Rank Sum = 1007.5

Rank Mean = 83.9583

PH1-GWB-1	6/9/2014	ND<1	77.5
	12/9/2014	ND<1	77.5
	6/22/2015	ND<1	77.5
	12/7/2015	ND<1	77.5
	6/13/2016	ND<1	77.5
	12/7/2016	ND<1	77.5
	6/15/2017	ND<1	77.5
	12/12/2017	ND<1	77.5
	6/18/2018	ND<1	77.5
	12/17/2018	ND<1	77.5
	6/11/2019	ND<1	77.5
	12/10/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

PH1-GWB-2	6/9/2014	ND<1	77.5
	12/11/2014	ND<1	77.5
	6/24/2015	ND<1	77.5
	12/8/2015	ND<1	77.5
	6/13/2016	ND<1	77.5
	12/8/2016	ND<1	77.5
	6/15/2017	ND<1	77.5
	12/11/2017	ND<1	77.5
	6/19/2018	ND<1	77.5
	12/17/2018	ND<1	77.5
	6/12/2019	ND<1	77.5
	12/12/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

PH1-GWA-1A	6/10/2014	ND<1	77.5
	12/8/2014	ND<1	77.5
	6/23/2015	ND<1	77.5
	12/8/2015	ND<1	77.5
	6/14/2016	ND<1	77.5
	12/7/2016	ND<1	77.5
	6/12/2017	ND<1	77.5
	12/13/2017	ND<1	77.5

Benzene

	6/19/2018	ND<1	77.5
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	12/18/2018	ND<1	77.5
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	6/10/2019	ND<1	77.5
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	12/10/2019	ND<1	77.5
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Rank Sum = 930

Rank Mean = 77.5

PH1-GWC-2	6/10/2014	ND<1	77.5
	12/11/2014	ND<1	77.5
	6/23/2015	ND<1	77.5
	12/8/2015	ND<1	77.5
	6/14/2016	ND<1	77.5
	12/7/2016	ND<1	77.5
	6/13/2017	ND<1	77.5
	12/13/2017	ND<1	77.5
	6/19/2018	ND<1	77.5
	12/18/2018	ND<1	77.5
	6/10/2019	ND<1	77.5
	12/10/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

PH1-GWC-3	6/10/2014	ND<1	77.5
	12/10/2014	ND<1	77.5
	6/24/2015	ND<1	77.5
	12/9/2015	ND<1	77.5
	6/16/2016	ND<1	77.5
	12/8/2016	ND<1	77.5
	6/13/2017	ND<1	77.5
	12/12/2017	ND<1	77.5
	6/19/2018	ND<1	77.5
	12/18/2018	ND<1	77.5
	6/10/2019	ND<1	77.5
	12/9/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

PH1-GWC-3A	6/10/2014	ND<1	77.5
	12/10/2014	ND<1	77.5
	6/24/2015	ND<1	77.5
	12/9/2015	ND<1	77.5
	6/16/2016	ND<1	77.5
	12/8/2016	ND<1	77.5
	6/13/2017	ND<1	77.5
	12/12/2017	ND<1	77.5
	6/19/2018	ND<1	77.5
	12/18/2018	ND<1	77.5
	6/10/2019	ND<1	77.5
	12/9/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

PH1-GWC-4	6/11/2014	ND<1	77.5
	12/11/2014	ND<1	77.5
	6/24/2015	ND<1	77.5
	12/7/2015	ND<1	77.5
	6/13/2016	ND<1	77.5

Benzene

12/8/2016	ND<1	77.5
6/15/2017	ND<1	77.5
12/11/2017	ND<1	77.5
6/19/2018	ND<1	77.5
12/19/2018	ND<1	77.5
6/13/2019	ND<1	77.5

Rank Sum = 852.5

Rank Mean = 77.5

GWC-1	6/12/2014	ND<1	77.5
	12/11/2014	ND<1	77.5
	6/24/2015	ND<1	77.5
	12/9/2015	ND<1	77.5
	6/14/2016	ND<1	77.5
	12/8/2016	ND<1	77.5
	6/13/2017	ND<1	77.5
	12/13/2017	ND<1	77.5
	6/19/2018	ND<1	77.5
	12/17/2018	ND<1	77.5
	6/13/2019	ND<1	77.5
	12/10/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

PH1-GWC-1	6/12/2014	ND<1	77.5
	12/11/2014	ND<1	77.5
	6/24/2015	ND<1	77.5
	12/8/2015	ND<1	77.5
	6/15/2016	ND<1	77.5
	12/8/2016	ND<1	77.5
	6/15/2017	ND<1	77.5
	12/11/2017	ND<1	77.5
	6/19/2018	ND<1	77.5
	12/19/2018	ND<1	77.5
	6/13/2019	ND<1	77.5
	12/11/2019	ND<1	77.5

Rank Sum = 930

Rank Mean = 77.5

Calculation Results:

Kruskal-Wallis H Statistic = 0.229167

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 11.9167

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

0.229167 < 19.6752 indicating no significant group difference at 5% significance level

11.9167 < 19.6752 indicating no significant group difference at 5% significance level when adjusted for ties

cis-1,2-Dichloroethene

Kruskal-Wallis Non-Parametric Test**Parameter: cis-1,2-Dichloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<1	48
	12/11/2014	ND<1	48
	6/22/2015	ND<1	48
	12/7/2015	ND<1	48
	6/13/2016	ND<1	48
	12/9/2016	ND<1	48
	6/14/2017	ND<1	48
	12/11/2017	ND<1	48
	6/18/2018	ND<1	48
	12/17/2018	ND<1	48
	6/13/2019	ND<1	48
	12/12/2019	ND<1	48

Rank Sum = 576

Rank Mean = 48

PH1-GWA-4	6/9/2014	ND<1	48
	12/11/2014	ND<1	48
	6/22/2015	ND<1	48
	12/8/2015	ND<1	48
	6/13/2016	ND<1	48
	12/7/2016	ND<1	48
	6/15/2017	ND<1	48
	12/12/2017	ND<1	48
	6/18/2018	ND<1	48
	12/18/2018	ND<1	48
	6/11/2019	ND<1	48
	12/9/2019	ND<1	48

Rank Sum = 576

Rank Mean = 48

Background Rank Sum = 1152

Background Rank Mean = 48

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/9/2014	4.2	109
	12/10/2014	9	121
	6/23/2015	7.5	116
	12/8/2015	8	117
	6/14/2016	8.3	119
	12/7/2016	5	111
	6/13/2017	5.2	113
	12/13/2017	3.5	107
	6/19/2018	3.1	104
	12/18/2018	2.4	101
	6/10/2019	5.2	114

cis-1,2-Dichloroethene

12/9/2019 3.7 108
 Rank Sum = 1340
 Rank Mean = 111.667

PH1-GWA-2	6/9/2014	81	154
	12/10/2014	73	153
	6/22/2015	53	149
	12/8/2015	21	143
	6/13/2016	32	146
	12/7/2016	70	152
	6/15/2017	49	148
	12/13/2017	64	151
	6/18/2018	46	147
	12/18/2018	55	150
	6/11/2019	26	144
	12/9/2019	120	155

Rank Sum = 1792
 Rank Mean = 149.333

PH1-GWB-1	6/9/2014	ND<1	48
	12/9/2014	ND<1	48
	6/22/2015	ND<1	48
	12/7/2015	ND<1	48
	6/13/2016	ND<1	48
	12/7/2016	ND<1	48
	6/15/2017	ND<1	48
	12/12/2017	ND<1	48
	6/18/2018	ND<1	48
	12/17/2018	ND<1	48
	6/11/2019	ND<1	48
	12/10/2019	ND<1	48

Rank Sum = 576
 Rank Mean = 48

PH1-GWB-2	6/9/2014	ND<1	48
	12/11/2014	ND<1	48
	6/24/2015	ND<1	48
	12/8/2015	ND<1	48
	6/13/2016	ND<1	48
	12/8/2016	ND<1	48
	6/15/2017	ND<1	48
	12/11/2017	ND<1	48
	6/19/2018	ND<1	48
	12/17/2018	2.6	103
	6/12/2019	ND<1	48
	12/12/2019	ND<1	48

Rank Sum = 631
 Rank Mean = 52.5833

PH1-GWA-1A	6/10/2014	ND<1	48
	12/8/2014	ND<1	48
	6/23/2015	ND<1	48
	12/8/2015	ND<1	48
	6/14/2016	ND<1	48
	12/7/2016	ND<1	48
	6/12/2017	ND<1	48
	12/13/2017	ND<1	48

cis-1,2-Dichloroethene

6/19/2018 ND<1 48
 12/18/2018 ND<1 48
 6/10/2019 ND<1 48
 12/10/2019 ND<1 48

Rank Sum = 576
 Rank Mean = 48

PH1-GWC-2	6/10/2014	ND<1	48
	12/11/2014	2	96
	6/23/2015	2	97
	12/8/2015	2.5	102
	6/14/2016	2.2	98
	12/7/2016	2.3	100
	6/13/2017	4.4	110
	12/13/2017	3.1	105
	6/19/2018	2.2	99
	12/18/2018	3.3	106
	6/10/2019	5.1	112
	12/10/2019	5.7	115

Rank Sum = 1188
 Rank Mean = 99

PH1-GWC-3	6/10/2014	8.1	118
	12/10/2014	9	122
	6/24/2015	11	128
	12/9/2015	13	134
	6/16/2016	15	136
	12/8/2016	15	137
	6/13/2017	14	135
	12/12/2017	15	138
	6/19/2018	15	139
	12/18/2018	15	140
	6/10/2019	19	142
	12/9/2019	27	145

Rank Sum = 1614
 Rank Mean = 134.5

PH1-GWC-3A	6/10/2014	8.9	120
	12/10/2014	11	129
	6/24/2015	9.3	124
	12/9/2015	10	126
	6/16/2016	9.9	125
	12/8/2016	11	130
	6/13/2017	11	131
	12/12/2017	10	127
	6/19/2018	12	133
	12/18/2018	9.2	123
	6/10/2019	11	132
	12/9/2019	16	141

Rank Sum = 1541
 Rank Mean = 128.417

PH1-GWC-4	6/11/2014	ND<1	48
	12/11/2014	ND<1	48
	6/24/2015	ND<1	48
	12/7/2015	ND<1	48
	6/13/2016	ND<1	48

cis-1,2-Dichloroethene

12/8/2016	ND<1	48
6/15/2017	ND<1	48
12/11/2017	ND<1	48
6/19/2018	ND<1	48
12/19/2018	ND<1	48
6/13/2019	ND<1	48

Rank Sum = 528

Rank Mean = 48

GWC-1	6/12/2014	ND<1	48
	12/11/2014	ND<1	48
	6/24/2015	ND<1	48
	12/9/2015	ND<1	48
	6/14/2016	ND<1	48
	12/8/2016	ND<1	48
	6/13/2017	ND<1	48
	12/13/2017	ND<1	48
	6/19/2018	ND<1	48
	12/17/2018	ND<1	48
	6/13/2019	ND<1	48
	12/10/2019	ND<1	48

Rank Sum = 576

Rank Mean = 48

PH1-GWC-1	6/12/2014	ND<1	48
	12/11/2014	ND<1	48
	6/24/2015	ND<1	48
	12/8/2015	ND<1	48
	6/15/2016	ND<1	48
	12/8/2016	ND<1	48
	6/15/2017	ND<1	48
	12/11/2017	ND<1	48
	6/19/2018	ND<1	48
	12/19/2018	ND<1	48
	6/13/2019	ND<1	48
	12/11/2019	ND<1	48

Rank Sum = 576

Rank Mean = 48

Calculation Results:

Kruskal-Wallis H Statistic = 114.747

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 149.065

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

114.747 > 19.6752 indicating a significant group difference at 5% significance level

149.065 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 48

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	111.667	63.6667	36.9204
PH1-GWA-2	149.333	101.333	36.9204
PH1-GWB-1	48	0	36.9204
PH1-GWB-2	52.5833	4.58333	36.9204
PH1-GWA-1A	48	0	36.9204

cis-1,2-Dichloroethene

PH1-GWC-2	99	51	36.9204
PH1-GWC-3	134.5	86.5	36.9204
PH1-GWC-3A	128.417	80.4167	36.9204
PH1-GWC-4	48	0	38.0227
GWC-1	48	0	36.9204
PH1-GWC-1	48	0	36.9204

Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)

0.454545% Z score is 2.65209

Mean background rank is 48

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	111.667	63.6667	42.0901
PH1-GWA-2	149.333	101.333	42.0901
PH1-GWB-1	48	0	42.0901
PH1-GWB-2	52.5833	4.58333	42.0901
PH1-GWA-1A	48	0	42.0901
PH1-GWC-2	99	51	42.0901
PH1-GWC-3	134.5	86.5	42.0901
PH1-GWC-3A	128.417	80.4167	42.0901
PH1-GWC-4	48	0	43.3468
GWC-1	48	0	42.0901
PH1-GWC-1	48	0	42.0901

Tetrachloroethene

Kruskal-Wallis Non-Parametric Test

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<1	56
	12/11/2014	ND<1	56
	6/22/2015	ND<1	56
	12/7/2015	ND<1	56
	6/13/2016	ND<1	56
	12/9/2016	ND<1	56
	6/14/2017	ND<1	56
	12/11/2017	ND<1	56
	6/18/2018	ND<1	56
	12/17/2018	ND<1	56
	6/13/2019	ND<1	56
	12/12/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

PH1-GWA-4	6/9/2014	ND<1	56
	12/11/2014	ND<1	56
	6/22/2015	ND<1	56
	12/8/2015	ND<1	56
	6/13/2016	ND<1	56
	12/7/2016	ND<1	56
	6/15/2017	ND<1	56
	12/12/2017	ND<1	56
	6/18/2018	ND<1	56
	12/18/2018	ND<1	56
	6/11/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

Background Rank Sum = 1344

Background Rank Mean = 56

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/9/2014	2.3	114
	12/10/2014	ND<1	56
	6/23/2015	ND<1	56
	12/8/2015	ND<1	56
	6/14/2016	ND<1	56
	12/7/2016	ND<1	56
	6/13/2017	ND<1	56
	12/13/2017	ND<1	56
	6/19/2018	2.1	112
	12/18/2018	ND<1	56
	6/10/2019	ND<1	56

Tetrachloroethene

12/9/2019 ND<1 56

Rank Sum = 786

Rank Mean = 65.5

PH1-GWA-2	6/9/2014	5.4	128
	12/10/2014	4.8	123
	6/22/2015	3.5	117
	12/8/2015	ND<1	56
	6/13/2016	ND<1	56
	12/7/2016	3.7	118
	6/15/2017	2.1	113
	12/13/2017	2.3	115
	6/18/2018	ND<1	56
	12/18/2018	ND<1	56
	6/11/2019	ND<1	56
	12/9/2019	2.4	116

Rank Sum = 1110

Rank Mean = 92.5

PH1-GWB-1	6/9/2014	ND<1	56
	12/9/2014	ND<1	56
	6/22/2015	ND<1	56
	12/7/2015	ND<1	56
	6/13/2016	ND<1	56
	12/7/2016	ND<1	56
	6/15/2017	ND<1	56
	12/12/2017	ND<1	56
	6/18/2018	ND<1	56
	12/17/2018	ND<1	56
	6/11/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

PH1-GWB-2	6/9/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/8/2015	ND<1	56
	6/13/2016	ND<1	56
	12/8/2016	ND<1	56
	6/15/2017	ND<1	56
	12/11/2017	ND<1	56
	6/19/2018	ND<1	56
	12/17/2018	ND<1	56
	6/12/2019	ND<1	56
	12/12/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

PH1-GWA-1A	6/10/2014	ND<1	56
	12/8/2014	ND<1	56
	6/23/2015	ND<1	56
	12/8/2015	ND<1	56
	6/14/2016	ND<1	56
	12/7/2016	ND<1	56
	6/12/2017	ND<1	56
	12/13/2017	ND<1	56

Tetrachloroethene

6/19/2018	ND<1	56
12/18/2018	ND<1	56
6/10/2019	ND<1	56
12/10/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

PH1-GWC-2	6/10/2014	5.1	125
	12/11/2014	4.9	124
	6/23/2015	4.7	122
	12/8/2015	6.3	129
	6/14/2016	4	120
	12/7/2016	3.9	119
	6/13/2017	6.7	131
	12/13/2017	5.1	126
	6/19/2018	ND<1	56
	12/18/2018	5.1	127
	6/10/2019	4.2	121
	12/10/2019	6.3	130

Rank Sum = 1430

Rank Mean = 119.167

PH1-GWC-3	6/10/2014	11	145
	12/10/2014	8.5	135
	6/24/2015	8.7	138
	12/9/2015	12	151
	6/16/2016	8.4	134
	12/8/2016	12	152
	6/13/2017	11	146
	12/12/2017	13	153
	6/19/2018	11	147
	12/18/2018	10	142
	6/10/2019	11	148
	12/9/2019	13	154

Rank Sum = 1745

Rank Mean = 145.417

PH1-GWC-3A	6/10/2014	13	155
	12/10/2014	11	149
	6/24/2015	8.5	136
	12/9/2015	10	143
	6/16/2016	6.7	132
	12/8/2016	8.6	137
	6/13/2017	8.9	141
	12/12/2017	10	144
	6/19/2018	11	150
	12/18/2018	8.7	139
	6/10/2019	8.8	140
	12/9/2019	7.4	133

Rank Sum = 1699

Rank Mean = 141.583

PH1-GWC-4	6/11/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/7/2015	ND<1	56
	6/13/2016	ND<1	56

Tetrachloroethene

12/8/2016	ND<1	56
6/15/2017	ND<1	56
12/11/2017	ND<1	56
6/19/2018	ND<1	56
12/19/2018	ND<1	56
6/13/2019	ND<1	56

Rank Sum = 616

Rank Mean = 56

GWC-1	6/12/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/9/2015	ND<1	56
	6/14/2016	ND<1	56
	12/8/2016	ND<1	56
	6/13/2017	ND<1	56
	12/13/2017	ND<1	56
	6/19/2018	ND<1	56
	12/17/2018	ND<1	56
	6/13/2019	ND<1	56
	12/10/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

PH1-GWC-1	6/12/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/8/2015	ND<1	56
	6/15/2016	ND<1	56
	12/8/2016	ND<1	56
	6/15/2017	ND<1	56
	12/11/2017	ND<1	56
	6/19/2018	ND<1	56
	12/19/2018	ND<1	56
	6/13/2019	ND<1	56
	12/11/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

Calculation Results:

Kruskal-Wallis H Statistic = 86.2375

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 136.289

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

86.2375 > 19.6752 indicating a significant group difference at 5% significance level**136.289 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties****Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 56

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	65.5	9.5	36.9204
PH1-GWA-2	92.5	36.5	36.9204
PH1-GWB-1	56	0	36.9204
PH1-GWB-2	56	0	36.9204
PH1-GWA-1A	56	0	36.9204

Tetrachloroethene

PH1-GWC-2	119.167	63.1667	36.9204
PH1-GWC-3	145.417	89.4167	36.9204
PH1-GWC-3A	141.583	85.5833	36.9204
PH1-GWC-4	56	0	38.0227
GWC-1	56	0	36.9204
PH1-GWC-1	56	0	36.9204

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 56

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	65.5	9.5	42.0901
PH1-GWA-2	92.5	36.5	42.0901
PH1-GWB-1	56	0	42.0901
PH1-GWB-2	56	0	42.0901
PH1-GWA-1A	56	0	42.0901
PH1-GWC-2	119.167	63.1667	42.0901
PH1-GWC-3	145.417	89.4167	42.0901
PH1-GWC-3A	141.583	85.5833	42.0901
PH1-GWC-4	56	0	43.3468
GWC-1	56	0	42.0901
PH1-GWC-1	56	0	42.0901

Total Barium

Kruskal-Wallis Non-Parametric Test

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<10	22
	12/11/2014	ND<10	22
	6/22/2015	ND<10	22
	12/7/2015	ND<10	22
	6/13/2016	ND<10	22
	12/9/2016	20	44
	6/14/2017	ND<10	22
	12/11/2017	ND<10	22
	6/18/2018	ND<10	22
	12/17/2018	ND<10	22
	6/13/2019	ND<10	22
	12/12/2019	ND<10	22

Rank Sum = 286

Rank Mean = 23.8333

PH1-GWA-4	6/10/2014	ND<10	22
	12/12/2014	ND<10	22
	6/23/2015	ND<10	22
	12/9/2015	ND<10	22
	6/14/2016	ND<10	22
	12/8/2016	ND<10	22
	6/16/2017	ND<10	22
	12/13/2017	37	97
	6/19/2018	ND<10	22
	12/19/2018	ND<10	22
	6/12/2019	ND<10	22
	12/10/2019	ND<10	22

Rank Sum = 339

Rank Mean = 28.25

Background Rank Sum = 625

Background Rank Mean = 26.0417

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/10/2014	ND<10	22
	12/11/2014	ND<10	22
	6/24/2015	21	47
	12/9/2015	ND<10	22
	6/15/2016	21	48
	12/8/2016	ND<10	22
	6/14/2017	21	49
	12/14/2017	20	45
	6/20/2018	34	93
	12/19/2018	24	55
	6/11/2019	24	56

Total Barium

	12/10/2019	20.3	46
Rank Sum = 527			
Rank Mean = 43.9167			
<hr/>			
PH1-GWA-1A	6/10/2014	45	109
	12/8/2014	27	72
	6/23/2015	29	82
	12/9/2015	30	87
	6/14/2016	37	98
	12/7/2016	21	50
	6/12/2017	24	57
	12/13/2017	27	73
	6/20/2018	25	64
	12/19/2018	27	74
	6/11/2019	24	58
	12/10/2019	23.4	54
Rank Sum = 878			
Rank Mean = 73.1667			
<hr/>			
PH1-GWA-2	6/10/2014	90	145
	12/11/2014	88	142
	6/23/2015	82	134
	12/9/2015	74	126
	6/14/2016	85	139
	12/8/2016	110	152
	6/16/2017	80	130
	12/14/2017	80	131
	6/19/2018	61	120
	12/19/2018	81	133
	6/12/2019	84	136
	12/10/2019	84.2	138
Rank Sum = 1626			
Rank Mean = 135.5			
<hr/>			
PH1-GWB-1	6/10/2014	66	122
	12/9/2014	72	125
	6/23/2015	78	129
	12/8/2015	75	127
	6/14/2016	84	137
	12/8/2016	75	128
	6/16/2017	52	114
	12/13/2017	54	116
	6/19/2018	62	121
	12/18/2018	53	115
	6/12/2019	82	135
	12/11/2019	67	123
Rank Sum = 1492			
Rank Mean = 124.333			
<hr/>			
PH1-GWB-2	6/10/2014	ND<10	22
	12/12/2014	ND<10	22
	6/25/2015	ND<10	22
	12/9/2015	29	83
	6/14/2016	28	79
	12/9/2016	26	67
	6/16/2017	ND<10	22
	12/12/2017	ND<10	22

Total Barium

	6/20/2018	ND<10	22
	12/18/2018	22	52
	6/13/2019	ND<10	22
	12/13/2019	ND<10	22
Rank Sum = 457			
Rank Mean = 38.0833			
<hr/>			
PH1-GWC-2	6/11/2014	21	51
	12/11/2014	ND<10	22
	6/23/2015	ND<10	22
	12/8/2015	ND<10	22
	6/14/2016	ND<10	22
	12/7/2016	ND<10	22
	6/14/2017	51	112
	12/13/2017	ND<10	22
	6/19/2018	ND<10	22
	12/18/2018	26	68
	6/10/2019	39	101
	12/10/2019	ND<10	22
Rank Sum = 508			
Rank Mean = 42.3333			
<hr/>			
PH1-GWC-3	6/11/2014	ND<10	22
	12/11/2014	38	99
	6/25/2015	25	65
	12/10/2015	25	66
	6/17/2016	24	59
	12/9/2016	28	80
	6/14/2017	26	69
	12/13/2017	27	75
	6/20/2018	23	53
	12/19/2018	27	76
	6/11/2019	30	88
	12/10/2019	24.7	62
Rank Sum = 814			
Rank Mean = 67.8333			
<hr/>			
PH1-GWC-3A	6/11/2014	40	102
	12/11/2014	24	60
	6/25/2015	28	81
	12/10/2015	26	70
	6/17/2016	29	84
	12/9/2016	29	85
	6/14/2017	29	86
	12/13/2017	27	77
	6/28/2018	26	71
	12/19/2018	24	61
	6/11/2019	30	89
	12/10/2019	24.9	63
Rank Sum = 929			
Rank Mean = 77.4167			
<hr/>			
PH1-GWC-4	6/12/2014	32	90
	12/12/2014	51	113
	6/25/2015	34	94
	12/8/2015	36	96
	6/14/2016	41	104

Total Barium

12/9/2016	80	132
6/16/2017	42	106
12/12/2017	54	117
6/20/2018	34	95
12/20/2018	310	155
6/13/2019	32	91

Rank Sum = 1193
Rank Mean = 108.455

GWC-1	6/13/2014	86	141
	12/12/2014	130	153
	6/25/2015	99	150
	12/10/2015	89	144
	6/15/2016	92	146
	12/9/2016	100	151
	6/14/2017	92	147
	12/14/2017	88	143
	6/20/2018	94	149
	12/18/2018	150	154
	6/13/2019	93	148
	12/11/2019	85.2	140

Rank Sum = 1766
Rank Mean = 147.167

PH1-GWC-1	6/13/2014	27	78
	12/12/2014	33	92
	6/25/2015	58	119
	12/9/2015	41	105
	6/16/2016	54	118
	12/9/2016	70	124
	6/16/2017	40	103
	12/12/2017	38	100
	6/20/2018	42	107
	12/20/2018	47	110
	6/13/2019	50	111
	12/12/2019	43.7	108

Rank Sum = 1275
Rank Mean = 106.25

Calculation Results:

Kruskal-Wallis H Statistic = 127.675

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 130.459

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

127.675 > 19.6752 indicating a significant group difference at 5% significance level

130.459 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 26.0417

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	43.9167	17.875	36.9204
PH1-GWA-1A	73.1667	47.125	36.9204
PH1-GWA-2	135.5	109.458	36.9204
PH1-GWB-1	124.333	98.2917	36.9204
PH1-GWB-2	38.0833	12.0417	36.9204

Total Barium

PH1-GWC-2	42.3333	16.2917	36.9204
PH1-GWC-3	67.8333	41.7917	36.9204
PH1-GWC-3A	77.4167	51.375	36.9204
PH1-GWC-4	108.455	82.4129	38.0227
GWC-1	147.167	121.125	36.9204
PH1-GWC-1	106.25	80.2083	36.9204

Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)

0.454545% Z score is 2.65209

Mean background rank is 26.0417

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	43.9167	17.875	42.0901
PH1-GWA-1A	73.1667	47.125	42.0901
PH1-GWA-2	135.5	109.458	42.0901
PH1-GWB-1	124.333	98.2917	42.0901
PH1-GWB-2	38.0833	12.0417	42.0901
PH1-GWC-2	42.3333	16.2917	42.0901
PH1-GWC-3	67.8333	41.7917	42.0901
PH1-GWC-3A	77.4167	51.375	42.0901
PH1-GWC-4	108.455	82.4129	43.3468
GWC-1	147.167	121.125	42.0901
PH1-GWC-1	106.25	80.2083	42.0901

Total Chromium

Kruskal-Wallis Non-Parametric Test

Parameter: Total Chromium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<5	74.5
	12/11/2014	ND<5	74.5
	6/22/2015	ND<5	74.5
	12/7/2015	ND<5	74.5
	6/13/2016	ND<5	74.5
	12/9/2016	ND<5	74.5
	6/14/2017	ND<5	74.5
	12/11/2017	ND<5	74.5
	6/18/2018	ND<5	74.5
	12/17/2018	ND<5	74.5
	6/13/2019	ND<5	74.5
	12/12/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWA-4	6/10/2014	ND<5	74.5
	12/12/2014	ND<5	74.5
	6/23/2015	ND<5	74.5
	12/9/2015	ND<5	74.5
	6/14/2016	ND<5	74.5
	12/8/2016	ND<5	74.5
	6/16/2017	ND<5	74.5
	12/13/2017	ND<5	74.5
	6/19/2018	ND<5	74.5
	12/19/2018	ND<5	74.5
	6/12/2019	ND<5	74.5
	12/10/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

Background Rank Sum = 1788
Background Rank Mean = 74.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/10/2014	ND<5	74.5
	12/11/2014	ND<5	74.5
	6/24/2015	ND<5	74.5
	12/9/2015	ND<5	74.5
	6/15/2016	ND<5	74.5
	12/8/2016	ND<5	74.5
	6/14/2017	ND<5	74.5
	12/14/2017	ND<5	74.5
	6/20/2018	ND<5	74.5
	12/19/2018	ND<5	74.5
	6/11/2019	ND<5	74.5

Total Chromium

12/10/2019 ND<5 74.5
Rank Sum = 894
Rank Mean = 74.5

PH1-GWA-1A	6/10/2014	ND<5	74.5
	12/8/2014	ND<5	74.5
	6/23/2015	ND<5	74.5
	12/9/2015	10	149
	6/14/2016	28	152
	12/7/2016	ND<5	74.5
	6/12/2017	ND<5	74.5
	12/13/2017	ND<5	74.5
	6/20/2018	ND<5	74.5
	12/19/2018	ND<5	74.5
	6/11/2019	11	150
	12/10/2019	ND<5	74.5

Rank Sum = 1121.5
Rank Mean = 93.4583

PH1-GWA-2	6/10/2014	ND<5	74.5
	12/11/2014	74	155
	6/23/2015	ND<5	74.5
	12/9/2015	ND<5	74.5
	6/14/2016	ND<5	74.5
	12/8/2016	ND<5	74.5
	6/16/2017	ND<5	74.5
	12/14/2017	ND<5	74.5
	6/19/2018	ND<5	74.5
	12/19/2018	ND<5	74.5
	6/12/2019	ND<5	74.5
	12/10/2019	ND<5	74.5

Rank Sum = 974.5
Rank Mean = 81.2083

PH1-GWB-1	6/10/2014	ND<5	74.5
	12/9/2014	ND<5	74.5
	6/23/2015	ND<5	74.5
	12/8/2015	ND<5	74.5
	6/14/2016	ND<5	74.5
	12/8/2016	ND<5	74.5
	6/16/2017	ND<5	74.5
	12/13/2017	ND<5	74.5
	6/19/2018	ND<5	74.5
	12/18/2018	ND<5	74.5
	6/12/2019	ND<5	74.5
	12/11/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWB-2	6/10/2014	ND<5	74.5
	12/12/2014	ND<5	74.5
	6/25/2015	ND<5	74.5
	12/9/2015	ND<5	74.5
	6/14/2016	ND<5	74.5
	12/9/2016	ND<5	74.5
	6/16/2017	ND<5	74.5
	12/12/2017	ND<5	74.5

Total Chromium

6/20/2018	ND<5	74.5
12/18/2018	ND<5	74.5
6/13/2019	ND<5	74.5
12/13/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-2	6/11/2014	ND<5	74.5
	12/11/2014	ND<5	74.5
	6/23/2015	ND<5	74.5
	12/8/2015	ND<5	74.5
	6/14/2016	ND<5	74.5
	12/7/2016	ND<5	74.5
	6/14/2017	ND<5	74.5
	12/13/2017	ND<5	74.5
	6/19/2018	12	151
	12/18/2018	ND<5	74.5
	6/10/2019	69	154
	12/10/2019	ND<5	74.5

Rank Sum = 1050
Rank Mean = 87.5

PH1-GWC-3	6/11/2014	ND<5	74.5
	12/11/2014	ND<5	74.5
	6/25/2015	ND<5	74.5
	12/10/2015	ND<5	74.5
	6/17/2016	ND<5	74.5
	12/9/2016	ND<5	74.5
	6/14/2017	ND<5	74.5
	12/13/2017	ND<5	74.5
	6/20/2018	ND<5	74.5
	12/19/2018	ND<5	74.5
	6/11/2019	ND<5	74.5
	12/10/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-3A	6/11/2014	ND<5	74.5
	12/11/2014	ND<5	74.5
	6/25/2015	ND<5	74.5
	12/10/2015	ND<5	74.5
	6/17/2016	ND<5	74.5
	12/9/2016	ND<5	74.5
	6/14/2017	ND<5	74.5
	12/13/2017	ND<5	74.5
	6/28/2018	ND<5	74.5
	12/19/2018	ND<5	74.5
	6/11/2019	ND<5	74.5
	12/10/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-4	6/12/2014	ND<5	74.5
	12/12/2014	ND<5	74.5
	6/25/2015	ND<5	74.5
	12/8/2015	ND<5	74.5
	6/14/2016	ND<5	74.5

Total Chromium

12/9/2016	ND<5	74.5
6/16/2017	ND<5	74.5
12/12/2017	ND<5	74.5
6/20/2018	ND<5	74.5
12/20/2018	49	153
6/13/2019	ND<5	74.5

Rank Sum = 898
Rank Mean = 81.6364

GWC-1	6/13/2014	ND<5	74.5
	12/12/2014	ND<5	74.5
	6/25/2015	ND<5	74.5
	12/10/2015	ND<5	74.5
	6/15/2016	ND<5	74.5
	12/9/2016	ND<5	74.5
	6/14/2017	ND<5	74.5
	12/14/2017	ND<5	74.5
	6/20/2018	ND<5	74.5
	12/18/2018	ND<5	74.5
	6/13/2019	ND<5	74.5
	12/11/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-1	6/13/2014	ND<5	74.5
	12/12/2014	ND<5	74.5
	6/25/2015	ND<5	74.5
	12/9/2015	ND<5	74.5
	6/16/2016	ND<5	74.5
	12/9/2016	ND<5	74.5
	6/16/2017	ND<5	74.5
	12/12/2017	ND<5	74.5
	6/20/2018	ND<5	74.5
	12/20/2018	ND<5	74.5
	6/13/2019	ND<5	74.5
	12/12/2019	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

Calculation Results:

Kruskal-Wallis H Statistic = 2.75062

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 21.2467

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

2.75062 < 19.6752 indicating no significant group difference at 5% significance level

21.2467 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 74.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	74.5	0	36.9204
PH1-GWA-1A	93.4583	18.9583	36.9204
PH1-GWA-2	81.2083	6.70833	36.9204
PH1-GWB-1	74.5	0	36.9204
PH1-GWB-2	74.5	0	36.9204

Total Chromium

PH1-GWC-2	87.5	13	36.9204
PH1-GWC-3	74.5	0	36.9204
PH1-GWC-3A	74.5	0	36.9204
PH1-GWC-4	81.6364	7.13636	38.0227
GWC-1	74.5	0	36.9204
PH1-GWC-1	74.5	0	36.9204

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 74.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	74.5	0	42.0901
PH1-GWA-1A	93.4583	18.9583	42.0901
PH1-GWA-2	81.2083	6.70833	42.0901
PH1-GWB-1	74.5	0	42.0901
PH1-GWB-2	74.5	0	42.0901
PH1-GWC-2	87.5	13	42.0901
PH1-GWC-3	74.5	0	42.0901
PH1-GWC-3A	74.5	0	42.0901
PH1-GWC-4	81.6364	7.13636	43.3468
GWC-1	74.5	0	42.0901
PH1-GWC-1	74.5	0	42.0901

Total Cobalt

Kruskal-Wallis Non-Parametric Test

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<20	72
	12/11/2014	ND<20	72
	6/22/2015	ND<20	72
	12/7/2015	ND<20	72
	6/13/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/11/2017	ND<20	72
	6/18/2018	ND<20	72
	12/17/2018	ND<20	72
	6/13/2019	ND<20	72
	12/12/2019	ND<20	72

Rank Sum = 864

Rank Mean = 72

PH1-GWA-4	6/10/2014	ND<20	72
	12/12/2014	ND<20	72
	6/23/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/8/2016	ND<20	72
	6/16/2017	ND<20	72
	12/13/2017	ND<20	72
	6/19/2018	ND<20	72
	12/19/2018	ND<20	72
	6/12/2019	ND<20	72
	12/10/2019	ND<20	72

Rank Sum = 864

Rank Mean = 72

Background Rank Sum = 1728

Background Rank Mean = 72

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/10/2014	92	149
	12/11/2014	96	152
	6/24/2015	120	155
	12/9/2015	95	151
	6/15/2016	110	154
	12/8/2016	94	150
	6/14/2017	100	153
	12/14/2017	76	145
	6/20/2018	75	144
	12/19/2018	82	146
	6/11/2019	91	148

Total Cobalt

	12/10/2019	90.1	147
Rank Sum = 1794			
Rank Mean = 149.5			
<hr/>			
PH1-GWA-1A	6/10/2014	ND<20	72
	12/8/2014	ND<20	72
	6/23/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/7/2016	ND<20	72
	6/12/2017	ND<20	72
	12/13/2017	ND<20	72
	6/20/2018	ND<20	72
	12/19/2018	ND<20	72
	6/11/2019	ND<20	72
	12/10/2019	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWA-2	6/10/2014	ND<20	72
	12/11/2014	ND<20	72
	6/23/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/8/2016	ND<20	72
	6/16/2017	ND<20	72
	12/14/2017	ND<20	72
	6/19/2018	ND<20	72
	12/19/2018	ND<20	72
	6/12/2019	ND<20	72
	12/10/2019	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWB-1	6/10/2014	ND<20	72
	12/9/2014	ND<20	72
	6/23/2015	ND<20	72
	12/8/2015	ND<20	72
	6/14/2016	ND<20	72
	12/8/2016	ND<20	72
	6/16/2017	ND<20	72
	12/13/2017	ND<20	72
	6/19/2018	ND<20	72
	12/18/2018	ND<20	72
	6/12/2019	ND<20	72
	12/11/2019	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWB-2	6/10/2014	ND<20	72
	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/9/2016	ND<20	72
	6/16/2017	ND<20	72
	12/12/2017	ND<20	72

Total Cobalt

	6/20/2018	ND<20	72
	12/18/2018	ND<20	72
	6/13/2019	ND<20	72
	12/13/2019	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWC-2	6/11/2014	ND<20	72
	12/11/2014	ND<20	72
	6/23/2015	ND<20	72
	12/8/2015	ND<20	72
	6/14/2016	ND<20	72
	12/7/2016	ND<20	72
	6/14/2017	ND<20	72
	12/13/2017	ND<20	72
	6/19/2018	ND<20	72
	12/18/2018	ND<20	72
	6/10/2019	ND<20	72
	12/10/2019	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWC-3	6/11/2014	ND<20	72
	12/11/2014	ND<20	72
	6/25/2015	ND<20	72
	12/10/2015	ND<20	72
	6/17/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/13/2017	ND<20	72
	6/20/2018	ND<20	72
	12/19/2018	ND<20	72
	6/11/2019	ND<20	72
	12/10/2019	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWC-3A	6/11/2014	ND<20	72
	12/11/2014	ND<20	72
	6/25/2015	ND<20	72
	12/10/2015	ND<20	72
	6/17/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/13/2017	ND<20	72
	6/28/2018	ND<20	72
	12/19/2018	ND<20	72
	6/11/2019	ND<20	72
	12/10/2019	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWC-4	6/12/2014	ND<20	72
	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/8/2015	ND<20	72
	6/14/2016	ND<20	72

Total Cobalt

12/9/2016	ND<20	72
6/16/2017	ND<20	72
12/12/2017	ND<20	72
6/20/2018	ND<20	72
12/20/2018	ND<20	72
6/13/2019	ND<20	72

Rank Sum = 792
Rank Mean = 72

GWC-1	6/13/2014	ND<20	72
	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/10/2015	ND<20	72
	6/15/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/14/2017	ND<20	72
	6/20/2018	ND<20	72
	12/18/2018	ND<20	72
	6/13/2019	ND<20	72
	12/11/2019	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-1	6/13/2014	ND<20	72
	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/9/2015	ND<20	72
	6/16/2016	ND<20	72
	12/9/2016	ND<20	72
	6/16/2017	ND<20	72
	12/12/2017	ND<20	72
	6/20/2018	ND<20	72
	12/20/2018	ND<20	72
	6/13/2019	ND<20	72
	12/12/2019	ND<20	72

Rank Sum = 864
Rank Mean = 72

Calculation Results:

Kruskal-Wallis H Statistic = 33

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 153.67

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

33 > 19.6752 indicating a significant group difference at 5% significance level

153.67 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 72

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	149.5	77.5	36.9204
PH1-GWA-1A	72	0	36.9204
PH1-GWA-2	72	0	36.9204
PH1-GWB-1	72	0	36.9204
PH1-GWB-2	72	0	36.9204

Total Cobalt

PH1-GWC-2	72	0	36.9204
PH1-GWC-3	72	0	36.9204
PH1-GWC-3A	72	0	36.9204
PH1-GWC-4	72	0	38.0227
GWC-1	72	0	36.9204
PH1-GWC-1	72	0	36.9204

Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)

0.454545% Z score is 2.65209

Mean background rank is 72

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	149.5	77.5	42.0901
PH1-GWA-1A	72	0	42.0901
PH1-GWA-2	72	0	42.0901
PH1-GWB-1	72	0	42.0901
PH1-GWB-2	72	0	42.0901
PH1-GWC-2	72	0	42.0901
PH1-GWC-3	72	0	42.0901
PH1-GWC-3A	72	0	42.0901
PH1-GWC-4	72	0	43.3468
GWC-1	72	0	42.0901
PH1-GWC-1	72	0	42.0901

Total Copper

Kruskal-Wallis Non-Parametric Test

Parameter: Total Copper
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<10	74.5
	12/11/2014	ND<10	74.5
	6/22/2015	ND<10	74.5
	12/7/2015	ND<10	74.5
	6/13/2016	ND<10	74.5
	12/9/2016	ND<10	74.5
	6/14/2017	ND<10	74.5
	12/11/2017	ND<10	74.5
	6/18/2018	ND<10	74.5
	12/17/2018	ND<10	74.5
	6/13/2019	ND<10	74.5
	12/12/2019	ND<10	74.5

Rank Sum = 894
 Rank Mean = 74.5

PH1-GWA-4	6/10/2014	ND<10	74.5
	12/12/2014	ND<10	74.5
	6/23/2015	ND<10	74.5
	12/9/2015	ND<10	74.5
	6/14/2016	ND<10	74.5
	12/8/2016	ND<10	74.5
	6/16/2017	ND<10	74.5
	12/13/2017	ND<10	74.5
	6/19/2018	ND<10	74.5
	12/19/2018	ND<10	74.5
	6/12/2019	ND<10	74.5
	12/10/2019	20.7	149

Rank Sum = 968.5
 Rank Mean = 80.7083

Background Rank Sum = 1862.5
 Background Rank Mean = 77.6042

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/10/2014	ND<10	74.5
	12/11/2014	ND<10	74.5
	6/24/2015	ND<10	74.5
	12/9/2015	ND<10	74.5
	6/15/2016	ND<10	74.5
	12/8/2016	ND<10	74.5
	6/14/2017	32	154
	12/14/2017	ND<10	74.5
	6/20/2018	ND<10	74.5
	12/19/2018	ND<10	74.5
	6/11/2019	ND<10	74.5

Total Copper

12/10/2019 ND<10 74.5
 Rank Sum = 973.5
 Rank Mean = 81.125

PH1-GWA-1A	6/10/2014	ND<10	74.5
	12/8/2014	ND<10	74.5
	6/23/2015	ND<10	74.5
	12/9/2015	ND<10	74.5
	6/14/2016	ND<10	74.5
	12/7/2016	ND<10	74.5
	6/12/2017	ND<10	74.5
	12/13/2017	ND<10	74.5
	6/20/2018	ND<10	74.5
	12/19/2018	ND<10	74.5
	6/11/2019	ND<10	74.5
	12/10/2019	ND<10	74.5

Rank Sum = 894
 Rank Mean = 74.5

PH1-GWA-2	6/10/2014	ND<10	74.5
	12/11/2014	ND<10	74.5
	6/23/2015	ND<10	74.5
	12/9/2015	23	150
	6/14/2016	24	151
	12/8/2016	ND<10	74.5
	6/16/2017	ND<10	74.5
	12/14/2017	ND<10	74.5
	6/19/2018	ND<10	74.5
	12/19/2018	ND<10	74.5
	6/12/2019	ND<10	74.5
	12/10/2019	ND<10	74.5

Rank Sum = 1046
 Rank Mean = 87.1667

PH1-GWB-1	6/10/2014	ND<10	74.5
	12/9/2014	ND<10	74.5
	6/23/2015	ND<10	74.5
	12/8/2015	ND<10	74.5
	6/14/2016	ND<10	74.5
	12/8/2016	ND<10	74.5
	6/16/2017	ND<10	74.5
	12/13/2017	ND<10	74.5
	6/19/2018	ND<10	74.5
	12/18/2018	ND<10	74.5
	6/12/2019	ND<10	74.5
	12/11/2019	ND<10	74.5

Rank Sum = 894
 Rank Mean = 74.5

PH1-GWB-2	6/10/2014	ND<10	74.5
	12/12/2014	ND<10	74.5
	6/25/2015	ND<10	74.5
	12/9/2015	ND<10	74.5
	6/14/2016	27	153
	12/9/2016	ND<10	74.5
	6/16/2017	24	152
	12/12/2017	ND<10	74.5

Total Copper

6/20/2018	ND<10	74.5
12/18/2018	ND<10	74.5
6/13/2019	ND<10	74.5
12/13/2019	ND<10	74.5

Rank Sum = 1050
Rank Mean = 87.5

PH1-GWC-2	6/11/2014	ND<10	74.5
	12/11/2014	ND<10	74.5
	6/23/2015	ND<10	74.5
	12/8/2015	ND<10	74.5
	6/14/2016	ND<10	74.5
	12/7/2016	ND<10	74.5
	6/14/2017	ND<10	74.5
	12/13/2017	ND<10	74.5
	6/19/2018	ND<10	74.5
	12/18/2018	ND<10	74.5
	6/10/2019	ND<10	74.5
	12/10/2019	ND<10	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-3	6/11/2014	ND<10	74.5
	12/11/2014	ND<10	74.5
	6/25/2015	ND<10	74.5
	12/10/2015	ND<10	74.5
	6/17/2016	ND<10	74.5
	12/9/2016	ND<10	74.5
	6/14/2017	ND<10	74.5
	12/13/2017	ND<10	74.5
	6/20/2018	ND<10	74.5
	12/19/2018	ND<10	74.5
	6/11/2019	ND<10	74.5
	12/10/2019	ND<10	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-3A	6/11/2014	ND<10	74.5
	12/11/2014	ND<10	74.5
	6/25/2015	ND<10	74.5
	12/10/2015	ND<10	74.5
	6/17/2016	ND<10	74.5
	12/9/2016	ND<10	74.5
	6/14/2017	ND<10	74.5
	12/13/2017	ND<10	74.5
	6/28/2018	ND<10	74.5
	12/19/2018	ND<10	74.5
	6/11/2019	ND<10	74.5
	12/10/2019	ND<10	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-4	6/12/2014	ND<10	74.5
	12/12/2014	ND<10	74.5
	6/25/2015	ND<10	74.5
	12/8/2015	ND<10	74.5
	6/14/2016	ND<10	74.5

Total Copper

12/9/2016	ND<10	74.5
6/16/2017	ND<10	74.5
12/12/2017	ND<10	74.5
6/20/2018	ND<10	74.5
12/20/2018	41	155
6/13/2019	ND<10	74.5

Rank Sum = 900
Rank Mean = 81.8182

GWC-1	6/13/2014	ND<10	74.5
	12/12/2014	ND<10	74.5
	6/25/2015	ND<10	74.5
	12/10/2015	ND<10	74.5
	6/15/2016	ND<10	74.5
	12/9/2016	ND<10	74.5
	6/14/2017	ND<10	74.5
	12/14/2017	ND<10	74.5
	6/20/2018	ND<10	74.5
	12/18/2018	ND<10	74.5
	6/13/2019	ND<10	74.5
	12/11/2019	ND<10	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-1	6/13/2014	ND<10	74.5
	12/12/2014	ND<10	74.5
	6/25/2015	ND<10	74.5
	12/9/2015	ND<10	74.5
	6/16/2016	ND<10	74.5
	12/9/2016	ND<10	74.5
	6/16/2017	ND<10	74.5
	12/12/2017	ND<10	74.5
	6/20/2018	ND<10	74.5
	12/20/2018	ND<10	74.5
	6/13/2019	ND<10	74.5
	12/12/2019	ND<10	74.5

Rank Sum = 894
Rank Mean = 74.5

Calculation Results:

Kruskal-Wallis H Statistic = 1.68816

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 13.0399

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

1.68816 < 19.6752 indicating no significant group difference at 5% significance level

13.0399 < 19.6752 indicating no significant group difference at 5% significance level when adjusted for ties

Total Nickel

Kruskal-Wallis Non-Parametric Test

Parameter: Total Nickel
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<10	76.5
	12/11/2014	ND<10	76.5
	6/22/2015	ND<10	76.5
	12/7/2015	ND<10	76.5
	6/13/2016	ND<10	76.5
	12/9/2016	ND<10	76.5
	6/14/2017	ND<10	76.5
	12/11/2017	ND<10	76.5
	6/18/2018	ND<10	76.5
	12/17/2018	ND<10	76.5
	6/13/2019	ND<10	76.5
	12/12/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

PH1-GWA-4	6/10/2014	ND<10	76.5
	12/12/2014	ND<10	76.5
	6/23/2015	ND<10	76.5
	12/9/2015	ND<10	76.5
	6/14/2016	ND<10	76.5
	12/8/2016	ND<10	76.5
	6/16/2017	ND<10	76.5
	12/13/2017	ND<10	76.5
	6/19/2018	ND<10	76.5
	12/19/2018	ND<10	76.5
	6/12/2019	ND<10	76.5
	12/10/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

Background Rank Sum = 1836
Background Rank Mean = 76.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/10/2014	ND<10	76.5
	12/11/2014	ND<10	76.5
	6/24/2015	ND<10	76.5
	12/9/2015	ND<10	76.5
	6/15/2016	ND<10	76.5
	12/8/2016	ND<10	76.5
	6/14/2017	ND<10	76.5
	12/14/2017	ND<10	76.5
	6/20/2018	ND<10	76.5
	12/19/2018	ND<10	76.5
	6/11/2019	ND<10	76.5

Total Nickel

12/10/2019 ND<10 76.5
Rank Sum = 918
Rank Mean = 76.5

PH1-GWA-1A	6/10/2014	ND<10	76.5
	12/8/2014	ND<10	76.5
	6/23/2015	ND<10	76.5
	12/9/2015	ND<10	76.5
	6/14/2016	ND<10	76.5
	12/7/2016	ND<10	76.5
	6/12/2017	ND<10	76.5
	12/13/2017	ND<10	76.5
	6/20/2018	ND<10	76.5
	12/19/2018	ND<10	76.5
	6/11/2019	ND<10	76.5
	12/10/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

PH1-GWA-2	6/10/2014	ND<10	76.5
	12/11/2014	42	154
	6/23/2015	ND<10	76.5
	12/9/2015	ND<10	76.5
	6/14/2016	ND<10	76.5
	12/8/2016	ND<10	76.5
	6/16/2017	ND<10	76.5
	12/14/2017	ND<10	76.5
	6/19/2018	ND<10	76.5
	12/19/2018	ND<10	76.5
	6/12/2019	ND<10	76.5
	12/10/2019	ND<10	76.5

Rank Sum = 995.5
Rank Mean = 82.9583

PH1-GWB-1	6/10/2014	ND<10	76.5
	12/9/2014	ND<10	76.5
	6/23/2015	ND<10	76.5
	12/8/2015	ND<10	76.5
	6/14/2016	ND<10	76.5
	12/8/2016	ND<10	76.5
	6/16/2017	ND<10	76.5
	12/13/2017	ND<10	76.5
	6/19/2018	ND<10	76.5
	12/18/2018	ND<10	76.5
	6/12/2019	ND<10	76.5
	12/11/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

PH1-GWB-2	6/10/2014	ND<10	76.5
	12/12/2014	ND<10	76.5
	6/25/2015	ND<10	76.5
	12/9/2015	ND<10	76.5
	6/14/2016	ND<10	76.5
	12/9/2016	ND<10	76.5
	6/16/2017	ND<10	76.5
	12/12/2017	ND<10	76.5

Total Nickel

6/20/2018	ND<10	76.5
12/18/2018	ND<10	76.5
6/13/2019	ND<10	76.5
12/13/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

PH1-GWC-2	6/11/2014	ND<10	76.5
	12/11/2014	ND<10	76.5
	6/23/2015	ND<10	76.5
	12/8/2015	ND<10	76.5
	6/14/2016	ND<10	76.5
	12/7/2016	ND<10	76.5
	6/14/2017	ND<10	76.5
	12/13/2017	ND<10	76.5
	6/19/2018	ND<10	76.5
	12/18/2018	ND<10	76.5
	6/10/2019	51	155
	12/10/2019	ND<10	76.5

Rank Sum = 996.5
Rank Mean = 83.0417

PH1-GWC-3	6/11/2014	ND<10	76.5
	12/11/2014	ND<10	76.5
	6/25/2015	ND<10	76.5
	12/10/2015	ND<10	76.5
	6/17/2016	ND<10	76.5
	12/9/2016	ND<10	76.5
	6/14/2017	ND<10	76.5
	12/13/2017	ND<10	76.5
	6/20/2018	ND<10	76.5
	12/19/2018	ND<10	76.5
	6/11/2019	ND<10	76.5
	12/10/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

PH1-GWC-3A	6/11/2014	ND<10	76.5
	12/11/2014	ND<10	76.5
	6/25/2015	ND<10	76.5
	12/10/2015	ND<10	76.5
	6/17/2016	ND<10	76.5
	12/9/2016	ND<10	76.5
	6/14/2017	ND<10	76.5
	12/13/2017	ND<10	76.5
	6/28/2018	ND<10	76.5
	12/19/2018	ND<10	76.5
	6/11/2019	ND<10	76.5
	12/10/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

PH1-GWC-4	6/12/2014	ND<10	76.5
	12/12/2014	ND<10	76.5
	6/25/2015	ND<10	76.5
	12/8/2015	ND<10	76.5
	6/14/2016	ND<10	76.5

Total Nickel

12/9/2016	ND<10	76.5
6/16/2017	ND<10	76.5
12/12/2017	ND<10	76.5
6/20/2018	ND<10	76.5
12/20/2018	31	153
6/13/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 83.4545

GWC-1	6/13/2014	ND<10	76.5
	12/12/2014	ND<10	76.5
	6/25/2015	ND<10	76.5
	12/10/2015	ND<10	76.5
	6/15/2016	ND<10	76.5
	12/9/2016	ND<10	76.5
	6/14/2017	ND<10	76.5
	12/14/2017	ND<10	76.5
	6/20/2018	ND<10	76.5
	12/18/2018	ND<10	76.5
	6/13/2019	ND<10	76.5
	12/11/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

PH1-GWC-1	6/13/2014	ND<10	76.5
	12/12/2014	ND<10	76.5
	6/25/2015	ND<10	76.5
	12/9/2015	ND<10	76.5
	6/16/2016	ND<10	76.5
	12/9/2016	ND<10	76.5
	6/16/2017	ND<10	76.5
	12/12/2017	ND<10	76.5
	6/20/2018	ND<10	76.5
	12/20/2018	ND<10	76.5
	6/13/2019	ND<10	76.5
	12/12/2019	ND<10	76.5

Rank Sum = 918
Rank Mean = 76.5

Calculation Results:

Kruskal-Wallis H Statistic = 0.594201

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 10.4338

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

0.594201 < 19.6752 indicating no significant group difference at 5% significance level

10.4338 < 19.6752 indicating no significant group difference at 5% significance level when adjusted for ties

Total Zinc

Kruskal-Wallis Non-Parametric Test

Parameter: Total Zinc
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<10	58
	12/11/2014	ND<10	58
	6/22/2015	ND<10	58
	12/7/2015	ND<10	58
	6/13/2016	ND<10	58
	12/9/2016	ND<10	58
	6/14/2017	ND<10	58
	12/11/2017	ND<10	58
	6/18/2018	ND<10	58
	12/17/2018	ND<10	58
	6/13/2019	ND<10	58
	12/12/2019	ND<10	58

Rank Sum = 696
 Rank Mean = 58

PH1-GWA-4	6/10/2014	ND<10	58
	12/12/2014	ND<10	58
	6/23/2015	ND<10	58
	12/9/2015	ND<10	58
	6/14/2016	ND<10	58
	12/8/2016	ND<10	58
	6/16/2017	ND<10	58
	12/13/2017	ND<10	58
	6/19/2018	ND<10	58
	12/19/2018	ND<10	58
	6/12/2019	ND<10	58
	12/10/2019	48.9	149

Rank Sum = 787
 Rank Mean = 65.5833

Background Rank Sum = 1483
 Background Rank Mean = 61.7917

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/10/2014	ND<10	58
	12/11/2014	ND<10	58
	6/24/2015	34	141
	12/9/2015	ND<10	58
	6/15/2016	21	121
	12/8/2016	ND<10	58
	6/14/2017	43	148
	12/14/2017	51	151
	6/20/2018	55	152
	12/19/2018	40	147
	6/11/2019	34	142

Total Zinc

12/10/2019 32.4 139
 Rank Sum = 1373
 Rank Mean = 114.417

PH1-GWA-1A	6/10/2014	ND<10	58
	12/8/2014	ND<10	58
	6/23/2015	ND<10	58
	12/9/2015	ND<10	58
	6/14/2016	ND<10	58
	12/7/2016	ND<10	58
	6/12/2017	ND<10	58
	12/13/2017	ND<10	58
	6/20/2018	ND<10	58
	12/19/2018	ND<10	58
	6/11/2019	ND<10	58
	12/10/2019	ND<10	58

Rank Sum = 696
 Rank Mean = 58

PH1-GWA-2	6/10/2014	ND<10	58
	12/11/2014	ND<10	58
	6/23/2015	ND<10	58
	12/9/2015	ND<10	58
	6/14/2016	56	153
	12/8/2016	ND<10	58
	6/16/2017	ND<10	58
	12/14/2017	ND<10	58
	6/19/2018	ND<10	58
	12/19/2018	29	133
	6/12/2019	ND<10	58
	12/10/2019	ND<10	58

Rank Sum = 866
 Rank Mean = 72.1667

PH1-GWB-1	6/10/2014	ND<10	58
	12/9/2014	21	122
	6/23/2015	ND<10	58
	12/8/2015	29	134
	6/14/2016	ND<10	58
	12/8/2016	ND<10	58
	6/16/2017	ND<10	58
	12/13/2017	ND<10	58
	6/19/2018	39	146
	12/18/2018	ND<10	58
	6/12/2019	22	125
	12/11/2019	38.2	144

Rank Sum = 1077
 Rank Mean = 89.75

PH1-GWB-2	6/10/2014	29	135
	12/12/2014	31	136
	6/25/2015	23	127
	12/9/2015	49	150
	6/14/2016	59	154
	12/9/2016	31	137
	6/16/2017	36	143
	12/12/2017	25	128

Total Zinc

6/20/2018	31	138
12/18/2018	28	131
6/13/2019	33	140
12/13/2019	38.3	145

Rank Sum = 1664
Rank Mean = 138.667

PH1-GWC-2	6/11/2014	ND<10	58
	12/11/2014	22	126
	6/23/2015	ND<10	58
	12/8/2015	ND<10	58
	6/14/2016	ND<10	58
	12/7/2016	ND<10	58
	6/14/2017	ND<10	58
	12/13/2017	ND<10	58
	6/19/2018	20	116
	12/18/2018	ND<10	58
	6/10/2019	26	129
	12/10/2019	ND<10	58

Rank Sum = 893
Rank Mean = 74.4167

PH1-GWC-3	6/11/2014	ND<10	58
	12/11/2014	ND<10	58
	6/25/2015	ND<10	58
	12/10/2015	ND<10	58
	6/17/2016	ND<10	58
	12/9/2016	ND<10	58
	6/14/2017	ND<10	58
	12/13/2017	ND<10	58
	6/20/2018	ND<10	58
	12/19/2018	ND<10	58
	6/11/2019	ND<10	58
	12/10/2019	ND<10	58

Rank Sum = 696
Rank Mean = 58

PH1-GWC-3A	6/11/2014	ND<10	58
	12/11/2014	ND<10	58
	6/25/2015	ND<10	58
	12/10/2015	ND<10	58
	6/17/2016	ND<10	58
	12/9/2016	ND<10	58
	6/14/2017	ND<10	58
	12/13/2017	ND<10	58
	6/28/2018	21	123
	12/19/2018	ND<10	58
	6/11/2019	ND<10	58
	12/10/2019	ND<10	58

Rank Sum = 761
Rank Mean = 63.4167

PH1-GWC-4	6/12/2014	ND<10	58
	12/12/2014	20	117
	6/25/2015	ND<10	58
	12/8/2015	ND<10	58
	6/14/2016	ND<10	58

Total Zinc

12/9/2016	21	124
6/16/2017	20	118
12/12/2017	28	132
6/20/2018	ND<10	58
12/20/2018	120	155
6/13/2019	20	119

Rank Sum = 1055
Rank Mean = 95.9091

GWC-1	6/13/2014	ND<10	58
	12/12/2014	ND<10	58
	6/25/2015	ND<10	58
	12/10/2015	ND<10	58
	6/15/2016	ND<10	58
	12/9/2016	ND<10	58
	6/14/2017	ND<10	58
	12/14/2017	ND<10	58
	6/20/2018	20	120
	12/18/2018	ND<10	58
	6/13/2019	ND<10	58
	12/11/2019	27.1	130

Rank Sum = 830
Rank Mean = 69.1667

PH1-GWC-1	6/13/2014	ND<10	58
	12/12/2014	ND<10	58
	6/25/2015	ND<10	58
	12/9/2015	ND<10	58
	6/16/2016	ND<10	58
	12/9/2016	ND<10	58
	6/16/2017	ND<10	58
	12/12/2017	ND<10	58
	6/20/2018	ND<10	58
	12/20/2018	ND<10	58
	6/13/2019	ND<10	58
	12/12/2019	ND<10	58

Rank Sum = 696
Rank Mean = 58

Calculation Results:

Kruskal-Wallis H Statistic = 44.675

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 75.5153

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

44.675 > 19.6752 indicating a significant group difference at 5% significance level

75.5153 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 61.7917

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	114.417	52.625	36.9204
PH1-GWA-1A	58	-3.79167	36.9204
PH1-GWA-2	72.1667	10.375	36.9204
PH1-GWB-1	89.75	27.9583	36.9204
PH1-GWB-2	138.667	76.875	36.9204

Total Zinc

PH1-GWC-2	74.4167	12.625	36.9204
PH1-GWC-3	58	-3.79167	36.9204
PH1-GWC-3A	63.4167	1.625	36.9204
PH1-GWC-4	95.9091	34.1174	38.0227
GWC-1	69.1667	7.375	36.9204
PH1-GWC-1	58	-3.79167	36.9204

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 61.7917

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	114.417	52.625	42.0901
PH1-GWA-1A	58	-3.79167	42.0901
PH1-GWA-2	72.1667	10.375	42.0901
PH1-GWB-1	89.75	27.9583	42.0901
PH1-GWB-2	138.667	76.875	42.0901
PH1-GWC-2	74.4167	12.625	42.0901
PH1-GWC-3	58	-3.79167	42.0901
PH1-GWC-3A	63.4167	1.625	42.0901
PH1-GWC-4	95.9091	34.1174	43.3468
GWC-1	69.1667	7.375	42.0901
PH1-GWC-1	58	-3.79167	42.0901

Trichloroethene

Kruskal-Wallis Non-Parametric Test

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/9/2014	ND<1	56
	12/11/2014	ND<1	56
	6/22/2015	ND<1	56
	12/7/2015	ND<1	56
	6/13/2016	ND<1	56
	12/9/2016	ND<1	56
	6/14/2017	ND<1	56
	12/11/2017	ND<1	56
	6/18/2018	ND<1	56
	12/17/2018	ND<1	56
	6/13/2019	ND<1	56
	12/12/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

PH1-GWA-4	6/9/2014	ND<1	56
	12/11/2014	ND<1	56
	6/22/2015	ND<1	56
	12/8/2015	ND<1	56
	6/13/2016	ND<1	56
	12/7/2016	ND<1	56
	6/15/2017	ND<1	56
	12/12/2017	ND<1	56
	6/18/2018	ND<1	56
	12/18/2018	ND<1	56
	6/11/2019	ND<1	56
	12/9/2019	ND<1	56

Rank Sum = 672

Rank Mean = 56

Background Rank Sum = 1344

Background Rank Mean = 56

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/9/2014	ND<1	56
	12/10/2014	2.7	119
	6/23/2015	2.1	114
	12/8/2015	ND<1	56
	6/14/2016	ND<1	56
	12/7/2016	2.2	116
	6/13/2017	ND<1	56
	12/13/2017	ND<1	56
	6/19/2018	ND<1	56
	12/18/2018	ND<1	56
	6/10/2019	ND<1	56

Trichloroethene

	12/9/2019	3.1	120
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Rank Sum = 917
Rank Mean = 76.4167

PH1-GWA-2	6/9/2014	8.1	152
	12/10/2014	6.7	139
	6/22/2015	5.1	128
	12/8/2015	3.5	121
	6/13/2016	3.8	122
	12/7/2016	7.1	147
	6/15/2017	4.1	124
	12/13/2017	5.8	133
	6/18/2018	4.2	125
	12/18/2018	4	123
	6/11/2019	2.1	115
	12/9/2019	7.3	148

Rank Sum = 1577
Rank Mean = 131.417

PH1-GWB-1	6/9/2014	ND<1	56
	12/9/2014	ND<1	56
	6/22/2015	ND<1	56
	12/7/2015	ND<1	56
	6/13/2016	ND<1	56
	12/7/2016	ND<1	56
	6/15/2017	ND<1	56
	12/12/2017	ND<1	56
	6/18/2018	ND<1	56
	12/17/2018	ND<1	56
	6/11/2019	ND<1	56
	12/10/2019	ND<1	56

Rank Sum = 672
Rank Mean = 56

PH1-GWB-2	6/9/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/8/2015	ND<1	56
	6/13/2016	ND<1	56
	12/8/2016	ND<1	56
	6/15/2017	ND<1	56
	12/11/2017	ND<1	56
	6/19/2018	ND<1	56
	12/17/2018	ND<1	56
	6/12/2019	ND<1	56
	12/12/2019	ND<1	56

Rank Sum = 672
Rank Mean = 56

PH1-GWA-1A	6/10/2014	ND<1	56
	12/8/2014	ND<1	56
	6/23/2015	ND<1	56
	12/8/2015	ND<1	56
	6/14/2016	ND<1	56
	12/7/2016	ND<1	56
	6/12/2017	ND<1	56
	12/13/2017	ND<1	56

Trichloroethene

	6/19/2018	ND<1	56
	12/18/2018	ND<1	56
	6/10/2019	ND<1	56
	12/10/2019	ND<1	56

Rank Sum = 672
Rank Mean = 56

PH1-GWC-2	6/10/2014	ND<1	56
	12/11/2014	ND<1	56
	6/23/2015	ND<1	56
	12/8/2015	ND<1	56
	6/14/2016	ND<1	56
	12/7/2016	ND<1	56
	6/13/2017	2.4	117
	12/13/2017	ND<1	56
	6/19/2018	ND<1	56
	12/18/2018	2	112
	6/10/2019	2	113
	12/10/2019	2.6	118

Rank Sum = 908
Rank Mean = 75.6667

PH1-GWC-3	6/10/2014	5.7	131
	12/10/2014	4.6	126
	6/24/2015	5.3	129
	12/9/2015	6.9	144
	6/16/2016	5.6	130
	12/8/2016	7.6	151
	6/13/2017	7	146
	12/12/2017	8.4	153
	6/19/2018	6.9	145
	12/18/2018	6.8	141
	6/10/2019	7.4	150
	12/9/2019	8.7	155

Rank Sum = 1701
Rank Mean = 141.75

PH1-GWC-3A	6/10/2014	7.3	149
	12/10/2014	5.8	134
	6/24/2015	6.5	137
	12/9/2015	6.7	140
	6/16/2016	4.6	127
	12/8/2016	6.8	142
	6/13/2017	6	136
	12/12/2017	6.6	138
	6/19/2018	6.8	143
	12/18/2018	5.8	135
	6/10/2019	5.7	132
	12/9/2019	8.4	154

Rank Sum = 1667
Rank Mean = 138.917

PH1-GWC-4	6/11/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/7/2015	ND<1	56
	6/13/2016	ND<1	56

Trichloroethene

12/8/2016	ND<1	56
6/15/2017	ND<1	56
12/11/2017	ND<1	56
6/19/2018	ND<1	56
12/19/2018	ND<1	56
6/13/2019	ND<1	56

Rank Sum = 616
Rank Mean = 56

GWC-1	6/12/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/9/2015	ND<1	56
	6/14/2016	ND<1	56
	12/8/2016	ND<1	56
	6/13/2017	ND<1	56
	12/13/2017	ND<1	56
	6/19/2018	ND<1	56
	12/17/2018	ND<1	56
	6/13/2019	ND<1	56
	12/10/2019	ND<1	56

Rank Sum = 672
Rank Mean = 56

PH1-GWC-1	6/12/2014	ND<1	56
	12/11/2014	ND<1	56
	6/24/2015	ND<1	56
	12/8/2015	ND<1	56
	6/15/2016	ND<1	56
	12/8/2016	ND<1	56
	6/15/2017	ND<1	56
	12/11/2017	ND<1	56
	6/19/2018	ND<1	56
	12/19/2018	ND<1	56
	6/13/2019	ND<1	56
	12/11/2019	ND<1	56

Rank Sum = 672
Rank Mean = 56

Calculation Results:

Kruskal-Wallis H Statistic = 86.161

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 136.168

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

86.161 > 19.6752 indicating a significant group difference at 5% significance level

136.168 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 56

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	76.4167	20.4167	36.9204
PH1-GWA-2	131.417	75.4167	36.9204
PH1-GWB-1	56	0	36.9204
PH1-GWB-2	56	0	36.9204
PH1-GWA-1A	56	0	36.9204

Trichloroethene

PH1-GWC-2	75.6667	19.6667	36.9204
PH1-GWC-3	141.75	85.75	36.9204
PH1-GWC-3A	138.917	82.9167	36.9204
PH1-GWC-4	56	0	38.0227
GWC-1	56	0	36.9204
PH1-GWC-1	56	0	36.9204

Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)

0.454545% Z score is 2.65209

Mean background rank is 56

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1	76.4167	20.4167	42.0901
PH1-GWA-2	131.417	75.4167	42.0901
PH1-GWB-1	56	0	42.0901
PH1-GWB-2	56	0	42.0901
PH1-GWA-1A	56	0	42.0901
PH1-GWC-2	75.6667	19.6667	42.0901
PH1-GWC-3	141.75	85.75	42.0901
PH1-GWC-3A	138.917	82.9167	42.0901
PH1-GWC-4	56	0	43.3468
GWC-1	56	0	42.0901
PH1-GWC-1	56	0	42.0901

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-3	FALSE	1%
1,1-Dichloroethane	GWC-11	FALSE	1%
1,1-Dichloroethane	GWC-12	FALSE	1%
1,1-Dichloroethane	GWC-12A	FALSE	1%
1,1-Dichloroethane	GWC-13	FALSE	1%
1,1-Dichloroethane	GWC-17	FALSE	1%
1,1-Dichloroethane	GWC-18	FALSE	1%
1,1-Dichloroethane	GWA-1A	FALSE	1%
1,1-Dichloroethane	GWC-15	TRUE	1%
1,1-Dichloroethane	GWC-19R	FALSE	1%
1,1-Dichloroethane	GWC-22	FALSE	1%
1,1-Dichloroethane	GWC-4A	FALSE	1%
1,1-Dichloroethane	GWC-5	FALSE	1%
1,1-Dichloroethane	GWC-6	FALSE	1%
1,1-Dichloroethane	GWC-7	FALSE	1%
1,1-Dichloroethane	GWC-10	FALSE	1%
1,1-Dichloroethane	GWC-10A	FALSE	1%
1,1-Dichloroethane	GWC-14	FALSE	1%
1,1-Dichloroethane	GWC-14A	TRUE	1%
1,1-Dichloroethane	GWC-14R	TRUE	1%
1,1-Dichloroethane	GWC-23A	FALSE	1%
1,1-Dichloroethane	GWC-24	FALSE	1%
1,1-Dichloroethane	GWC-3	FALSE	1%
1,1-Dichloroethane	GWC-3A	FALSE	1%
1,1-Dichloroethane	GWC-8	FALSE	1%
1,1-Dichloroethane	GWC-8A	TRUE	1%
1,1-Dichloroethane	GWC-8R	TRUE	1%
1,1-Dichloroethane	GWC-9	FALSE	1%
1,1-Dichloroethane	GWC-16A	FALSE	1%
1,1-Dichloroethane	GWC-2	FALSE	1%
1,1-Dichloroethane	GWC-23	FALSE	1%
1,1-Dichloroethane	GWC-4	FALSE	1%
1,1-Dichloroethane	GWA-3	FALSE	0.16%
1,1-Dichloroethane	GWC-11	FALSE	0.16%
1,1-Dichloroethane	GWC-12	FALSE	0.16%
1,1-Dichloroethane	GWC-12A	FALSE	0.16%
1,1-Dichloroethane	GWC-13	FALSE	0.16%
1,1-Dichloroethane	GWC-17	FALSE	0.16%
1,1-Dichloroethane	GWC-18	FALSE	0.16%

Notes:

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4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-1A	FALSE	0.16%
1,1-Dichloroethane	GWC-15	TRUE	0.16%
1,1-Dichloroethane	GWC-19R	FALSE	0.16%
1,1-Dichloroethane	GWC-22	FALSE	0.16%
1,1-Dichloroethane	GWC-4A	FALSE	0.16%
1,1-Dichloroethane	GWC-5	FALSE	0.16%
1,1-Dichloroethane	GWC-6	FALSE	0.16%
1,1-Dichloroethane	GWC-7	FALSE	0.16%
1,1-Dichloroethane	GWC-10	FALSE	0.16%
1,1-Dichloroethane	GWC-10A	FALSE	0.16%
1,1-Dichloroethane	GWC-14	FALSE	0.16%
1,1-Dichloroethane	GWC-14A	TRUE	0.16%
1,1-Dichloroethane	GWC-14R	TRUE	0.16%
1,1-Dichloroethane	GWC-23A	FALSE	0.16%
1,1-Dichloroethane	GWC-24	FALSE	0.16%
1,1-Dichloroethane	GWC-3	FALSE	0.16%
1,1-Dichloroethane	GWC-3A	FALSE	0.16%
1,1-Dichloroethane	GWC-8	FALSE	0.16%
1,1-Dichloroethane	GWC-8A	TRUE	0.16%
1,1-Dichloroethane	GWC-8R	TRUE	0.16%
1,1-Dichloroethane	GWC-9	FALSE	0.16%
1,1-Dichloroethane	GWC-16A	FALSE	0.16%
1,1-Dichloroethane	GWC-2	FALSE	0.16%
1,1-Dichloroethane	GWC-23	FALSE	0.16%
1,1-Dichloroethane	GWC-4	FALSE	0.16%
Acetone	GWA-3	FALSE	1%
Acetone	GWC-11	FALSE	1%
Acetone	GWC-12	FALSE	1%
Acetone	GWC-12A	FALSE	1%
Acetone	GWC-13	FALSE	1%
Acetone	GWC-17	FALSE	1%
Acetone	GWC-18	FALSE	1%
Acetone	GWA-1A	FALSE	1%
Acetone	GWC-15	FALSE	1%
Acetone	GWC-19R	FALSE	1%
Acetone	GWC-22	FALSE	1%
Acetone	GWC-4A	FALSE	1%
Acetone	GWC-5	FALSE	1%
Acetone	GWC-6	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-7	FALSE	1%
Acetone	GWC-10	FALSE	1%
Acetone	GWC-10A	FALSE	1%
Acetone	GWC-14	FALSE	1%
Acetone	GWC-14A	FALSE	1%
Acetone	GWC-14R	FALSE	1%
Acetone	GWC-23A	FALSE	1%
Acetone	GWC-24	FALSE	1%
Acetone	GWC-3	FALSE	1%
Acetone	GWC-3A	FALSE	1%
Acetone	GWC-8	FALSE	1%
Acetone	GWC-8A	FALSE	1%
Acetone	GWC-8R	FALSE	1%
Acetone	GWC-9	FALSE	1%
Acetone	GWC-16A	FALSE	1%
Acetone	GWC-2	FALSE	1%
Acetone	GWC-23	FALSE	1%
Acetone	GWC-4	FALSE	1%
Acetone	GWA-3	FALSE	0.16%
Acetone	GWC-11	FALSE	0.16%
Acetone	GWC-12	FALSE	0.16%
Acetone	GWC-12A	FALSE	0.16%
Acetone	GWC-13	FALSE	0.16%
Acetone	GWC-17	FALSE	0.16%
Acetone	GWC-18	FALSE	0.16%
Acetone	GWA-1A	FALSE	0.16%
Acetone	GWC-15	FALSE	0.16%
Acetone	GWC-19R	FALSE	0.16%
Acetone	GWC-22	FALSE	0.16%
Acetone	GWC-4A	FALSE	0.16%
Acetone	GWC-5	FALSE	0.16%
Acetone	GWC-6	FALSE	0.16%
Acetone	GWC-7	FALSE	0.16%
Acetone	GWC-10	FALSE	0.16%
Acetone	GWC-10A	FALSE	0.16%
Acetone	GWC-14	FALSE	0.16%
Acetone	GWC-14A	FALSE	0.16%
Acetone	GWC-14R	FALSE	0.16%
Acetone	GWC-23A	FALSE	0.16%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-24	FALSE	0.16%
Acetone	GWC-3	FALSE	0.16%
Acetone	GWC-3A	FALSE	0.16%
Acetone	GWC-8	FALSE	0.16%
Acetone	GWC-8A	FALSE	0.16%
Acetone	GWC-8R	FALSE	0.16%
Acetone	GWC-9	FALSE	0.16%
Acetone	GWC-16A	FALSE	0.16%
Acetone	GWC-2	FALSE	0.16%
Acetone	GWC-23	FALSE	0.16%
Acetone	GWC-4	FALSE	0.16%
Benzene	GWA-3	FALSE	1%
Benzene	GWC-11	FALSE	1%
Benzene	GWC-12	FALSE	1%
Benzene	GWC-12A	FALSE	1%
Benzene	GWC-13	FALSE	1%
Benzene	GWC-17	FALSE	1%
Benzene	GWC-18	FALSE	1%
Benzene	GWA-1A	FALSE	1%
Benzene	GWC-15	FALSE	1%
Benzene	GWC-19R	FALSE	1%
Benzene	GWC-22	FALSE	1%
Benzene	GWC-4A	FALSE	1%
Benzene	GWC-5	FALSE	1%
Benzene	GWC-6	FALSE	1%
Benzene	GWC-7	FALSE	1%
Benzene	GWC-10	FALSE	1%
Benzene	GWC-10A	FALSE	1%
Benzene	GWC-14	FALSE	1%
Benzene	GWC-14A	TRUE	1%
Benzene	GWC-14R	FALSE	1%
Benzene	GWC-23A	FALSE	1%
Benzene	GWC-24	FALSE	1%
Benzene	GWC-3	FALSE	1%
Benzene	GWC-3A	FALSE	1%
Benzene	GWC-8	FALSE	1%
Benzene	GWC-8A	TRUE	1%
Benzene	GWC-8R	FALSE	1%
Benzene	GWC-9	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-16A	FALSE	1%
Benzene	GWC-2	FALSE	1%
Benzene	GWC-23	FALSE	1%
Benzene	GWC-4	FALSE	1%
Benzene	GWA-3	FALSE	0.16%
Benzene	GWC-11	FALSE	0.16%
Benzene	GWC-12	FALSE	0.16%
Benzene	GWC-12A	FALSE	0.16%
Benzene	GWC-13	FALSE	0.16%
Benzene	GWC-17	FALSE	0.16%
Benzene	GWC-18	FALSE	0.16%
Benzene	GWA-1A	FALSE	0.16%
Benzene	GWC-15	FALSE	0.16%
Benzene	GWC-19R	FALSE	0.16%
Benzene	GWC-22	FALSE	0.16%
Benzene	GWC-4A	FALSE	0.16%
Benzene	GWC-5	FALSE	0.16%
Benzene	GWC-6	FALSE	0.16%
Benzene	GWC-7	FALSE	0.16%
Benzene	GWC-10	FALSE	0.16%
Benzene	GWC-10A	FALSE	0.16%
Benzene	GWC-14	FALSE	0.16%
Benzene	GWC-14A	TRUE	0.16%
Benzene	GWC-14R	FALSE	0.16%
Benzene	GWC-23A	FALSE	0.16%
Benzene	GWC-24	FALSE	0.16%
Benzene	GWC-3	FALSE	0.16%
Benzene	GWC-3A	FALSE	0.16%
Benzene	GWC-8	FALSE	0.16%
Benzene	GWC-8A	TRUE	0.16%
Benzene	GWC-8R	FALSE	0.16%
Benzene	GWC-9	FALSE	0.16%
Benzene	GWC-16A	FALSE	0.16%
Benzene	GWC-2	FALSE	0.16%
Benzene	GWC-23	FALSE	0.16%
Benzene	GWC-4	FALSE	0.16%
Chloroethane	GWA-3	FALSE	1%
Chloroethane	GWC-11	FALSE	1%
Chloroethane	GWC-12	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-12A	FALSE	1%
Chloroethane	GWC-13	FALSE	1%
Chloroethane	GWC-17	FALSE	1%
Chloroethane	GWC-18	FALSE	1%
Chloroethane	GWA-1A	FALSE	1%
Chloroethane	GWC-15	FALSE	1%
Chloroethane	GWC-19R	FALSE	1%
Chloroethane	GWC-22	FALSE	1%
Chloroethane	GWC-4A	FALSE	1%
Chloroethane	GWC-5	FALSE	1%
Chloroethane	GWC-6	FALSE	1%
Chloroethane	GWC-7	FALSE	1%
Chloroethane	GWC-10	FALSE	1%
Chloroethane	GWC-10A	FALSE	1%
Chloroethane	GWC-14	FALSE	1%
Chloroethane	GWC-14A	TRUE	1%
Chloroethane	GWC-14R	FALSE	1%
Chloroethane	GWC-23A	FALSE	1%
Chloroethane	GWC-24	FALSE	1%
Chloroethane	GWC-3	FALSE	1%
Chloroethane	GWC-3A	FALSE	1%
Chloroethane	GWC-8	FALSE	1%
Chloroethane	GWC-8A	FALSE	1%
Chloroethane	GWC-8R	FALSE	1%
Chloroethane	GWC-9	FALSE	1%
Chloroethane	GWC-16A	FALSE	1%
Chloroethane	GWC-2	FALSE	1%
Chloroethane	GWC-23	FALSE	1%
Chloroethane	GWC-4	FALSE	1%
Chloroethane	GWA-3	FALSE	0.16%
Chloroethane	GWC-11	FALSE	0.16%
Chloroethane	GWC-12	FALSE	0.16%
Chloroethane	GWC-12A	FALSE	0.16%
Chloroethane	GWC-13	FALSE	0.16%
Chloroethane	GWC-17	FALSE	0.16%
Chloroethane	GWC-18	FALSE	0.16%
Chloroethane	GWA-1A	FALSE	0.16%
Chloroethane	GWC-15	FALSE	0.16%
Chloroethane	GWC-19R	FALSE	0.16%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-22	FALSE	0.16%
Chloroethane	GWC-4A	FALSE	0.16%
Chloroethane	GWC-5	FALSE	0.16%
Chloroethane	GWC-6	FALSE	0.16%
Chloroethane	GWC-7	FALSE	0.16%
Chloroethane	GWC-10	FALSE	0.16%
Chloroethane	GWC-10A	FALSE	0.16%
Chloroethane	GWC-14	FALSE	0.16%
Chloroethane	GWC-14A	TRUE	0.16%
Chloroethane	GWC-14R	FALSE	0.16%
Chloroethane	GWC-23A	FALSE	0.16%
Chloroethane	GWC-24	FALSE	0.16%
Chloroethane	GWC-3	FALSE	0.16%
Chloroethane	GWC-3A	FALSE	0.16%
Chloroethane	GWC-8	FALSE	0.16%
Chloroethane	GWC-8A	FALSE	0.16%
Chloroethane	GWC-8R	FALSE	0.16%
Chloroethane	GWC-9	FALSE	0.16%
Chloroethane	GWC-16A	FALSE	0.16%
Chloroethane	GWC-2	FALSE	0.16%
Chloroethane	GWC-23	FALSE	0.16%
Chloroethane	GWC-4	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-11	FALSE	1%
cis-1,2-Dichloroethene	GWC-12	FALSE	1%
cis-1,2-Dichloroethene	GWC-12A	FALSE	1%
cis-1,2-Dichloroethene	GWC-13	FALSE	1%
cis-1,2-Dichloroethene	GWC-17	TRUE	1%
cis-1,2-Dichloroethene	GWC-18	TRUE	1%
cis-1,2-Dichloroethene	GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	GWC-15	TRUE	1%
cis-1,2-Dichloroethene	GWC-19R	TRUE	1%
cis-1,2-Dichloroethene	GWC-22	FALSE	1%
cis-1,2-Dichloroethene	GWC-4A	FALSE	1%
cis-1,2-Dichloroethene	GWC-5	FALSE	1%
cis-1,2-Dichloroethene	GWC-6	FALSE	1%
cis-1,2-Dichloroethene	GWC-7	FALSE	1%
cis-1,2-Dichloroethene	GWC-10	FALSE	1%
cis-1,2-Dichloroethene	GWC-10A	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-14	FALSE	1%
cis-1,2-Dichloroethene	GWC-14A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14R	TRUE	1%
cis-1,2-Dichloroethene	GWC-23A	FALSE	1%
cis-1,2-Dichloroethene	GWC-24	TRUE	1%
cis-1,2-Dichloroethene	GWC-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-3A	FALSE	1%
cis-1,2-Dichloroethene	GWC-8	FALSE	1%
cis-1,2-Dichloroethene	GWC-8A	TRUE	1%
cis-1,2-Dichloroethene	GWC-8R	TRUE	1%
cis-1,2-Dichloroethene	GWC-9	FALSE	1%
cis-1,2-Dichloroethene	GWC-16A	TRUE	1%
cis-1,2-Dichloroethene	GWC-2	FALSE	1%
cis-1,2-Dichloroethene	GWC-23	FALSE	1%
cis-1,2-Dichloroethene	GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWA-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-11	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-12	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-12A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-13	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-17	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-18	TRUE	0.16%
cis-1,2-Dichloroethene	GWA-1A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-15	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-19R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-22	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-5	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-6	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-7	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-10	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-10A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-14	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-14A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-14R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-23A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-24	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3A	FALSE	0.16%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-8	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-8R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-9	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-16A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-2	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4	FALSE	0.16%
Methylene Chloride	GWA-3	FALSE	1%
Methylene Chloride	GWC-11	FALSE	1%
Methylene Chloride	GWC-12	FALSE	1%
Methylene Chloride	GWC-12A	FALSE	1%
Methylene Chloride	GWC-13	FALSE	1%
Methylene Chloride	GWC-17	FALSE	1%
Methylene Chloride	GWC-18	FALSE	1%
Methylene Chloride	GWA-1A	FALSE	1%
Methylene Chloride	GWC-15	FALSE	1%
Methylene Chloride	GWC-19R	FALSE	1%
Methylene Chloride	GWC-22	FALSE	1%
Methylene Chloride	GWC-4A	FALSE	1%
Methylene Chloride	GWC-5	FALSE	1%
Methylene Chloride	GWC-6	FALSE	1%
Methylene Chloride	GWC-7	FALSE	1%
Methylene Chloride	GWC-10	FALSE	1%
Methylene Chloride	GWC-10A	FALSE	1%
Methylene Chloride	GWC-14	FALSE	1%
Methylene Chloride	GWC-14A	FALSE	1%
Methylene Chloride	GWC-14R	FALSE	1%
Methylene Chloride	GWC-23A	FALSE	1%
Methylene Chloride	GWC-24	FALSE	1%
Methylene Chloride	GWC-3	FALSE	1%
Methylene Chloride	GWC-3A	FALSE	1%
Methylene Chloride	GWC-8	FALSE	1%
Methylene Chloride	GWC-8A	FALSE	1%
Methylene Chloride	GWC-8R	FALSE	1%
Methylene Chloride	GWC-9	FALSE	1%
Methylene Chloride	GWC-16A	FALSE	1%
Methylene Chloride	GWC-2	FALSE	1%
Methylene Chloride	GWC-23	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Methylene Chloride	GWC-4	FALSE	1%
Methylene Chloride	GWA-3	FALSE	0.16%
Methylene Chloride	GWC-11	FALSE	0.16%
Methylene Chloride	GWC-12	FALSE	0.16%
Methylene Chloride	GWC-12A	FALSE	0.16%
Methylene Chloride	GWC-13	FALSE	0.16%
Methylene Chloride	GWC-17	FALSE	0.16%
Methylene Chloride	GWC-18	FALSE	0.16%
Methylene Chloride	GWA-1A	FALSE	0.16%
Methylene Chloride	GWC-15	FALSE	0.16%
Methylene Chloride	GWC-19R	FALSE	0.16%
Methylene Chloride	GWC-22	FALSE	0.16%
Methylene Chloride	GWC-4A	FALSE	0.16%
Methylene Chloride	GWC-5	FALSE	0.16%
Methylene Chloride	GWC-6	FALSE	0.16%
Methylene Chloride	GWC-7	FALSE	0.16%
Methylene Chloride	GWC-10	FALSE	0.16%
Methylene Chloride	GWC-10A	FALSE	0.16%
Methylene Chloride	GWC-14	FALSE	0.16%
Methylene Chloride	GWC-14A	FALSE	0.16%
Methylene Chloride	GWC-14R	FALSE	0.16%
Methylene Chloride	GWC-23A	FALSE	0.16%
Methylene Chloride	GWC-24	FALSE	0.16%
Methylene Chloride	GWC-3	FALSE	0.16%
Methylene Chloride	GWC-3A	FALSE	0.16%
Methylene Chloride	GWC-8	FALSE	0.16%
Methylene Chloride	GWC-8A	FALSE	0.16%
Methylene Chloride	GWC-8R	FALSE	0.16%
Methylene Chloride	GWC-9	FALSE	0.16%
Methylene Chloride	GWC-16A	FALSE	0.16%
Methylene Chloride	GWC-2	FALSE	0.16%
Methylene Chloride	GWC-23	FALSE	0.16%
Methylene Chloride	GWC-4	FALSE	0.16%
Tetrachloroethene	GWA-3	FALSE	1%
Tetrachloroethene	GWC-11	FALSE	1%
Tetrachloroethene	GWC-12	FALSE	1%
Tetrachloroethene	GWC-12A	FALSE	1%
Tetrachloroethene	GWC-13	FALSE	1%
Tetrachloroethene	GWC-17	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-18	TRUE	1%
Tetrachloroethene	GWA-1A	FALSE	1%
Tetrachloroethene	GWC-15	TRUE	1%
Tetrachloroethene	GWC-19R	FALSE	1%
Tetrachloroethene	GWC-22	FALSE	1%
Tetrachloroethene	GWC-4A	FALSE	1%
Tetrachloroethene	GWC-5	FALSE	1%
Tetrachloroethene	GWC-6	FALSE	1%
Tetrachloroethene	GWC-7	FALSE	1%
Tetrachloroethene	GWC-10	FALSE	1%
Tetrachloroethene	GWC-10A	FALSE	1%
Tetrachloroethene	GWC-14	FALSE	1%
Tetrachloroethene	GWC-14A	FALSE	1%
Tetrachloroethene	GWC-14R	TRUE	1%
Tetrachloroethene	GWC-23A	FALSE	1%
Tetrachloroethene	GWC-24	FALSE	1%
Tetrachloroethene	GWC-3	FALSE	1%
Tetrachloroethene	GWC-3A	FALSE	1%
Tetrachloroethene	GWC-8	FALSE	1%
Tetrachloroethene	GWC-8A	FALSE	1%
Tetrachloroethene	GWC-8R	FALSE	1%
Tetrachloroethene	GWC-9	FALSE	1%
Tetrachloroethene	GWC-16A	FALSE	1%
Tetrachloroethene	GWC-2	FALSE	1%
Tetrachloroethene	GWC-23	FALSE	1%
Tetrachloroethene	GWC-4	FALSE	1%
Tetrachloroethene	GWA-3	FALSE	0.16%
Tetrachloroethene	GWC-11	FALSE	0.16%
Tetrachloroethene	GWC-12	FALSE	0.16%
Tetrachloroethene	GWC-12A	FALSE	0.16%
Tetrachloroethene	GWC-13	FALSE	0.16%
Tetrachloroethene	GWC-17	FALSE	0.16%
Tetrachloroethene	GWC-18	TRUE	0.16%
Tetrachloroethene	GWA-1A	FALSE	0.16%
Tetrachloroethene	GWC-15	TRUE	0.16%
Tetrachloroethene	GWC-19R	FALSE	0.16%
Tetrachloroethene	GWC-22	FALSE	0.16%
Tetrachloroethene	GWC-4A	FALSE	0.16%
Tetrachloroethene	GWC-5	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-6	FALSE	0.16%
Tetrachloroethene	GWC-7	FALSE	0.16%
Tetrachloroethene	GWC-10	FALSE	0.16%
Tetrachloroethene	GWC-10A	FALSE	0.16%
Tetrachloroethene	GWC-14	FALSE	0.16%
Tetrachloroethene	GWC-14A	FALSE	0.16%
Tetrachloroethene	GWC-14R	TRUE	0.16%
Tetrachloroethene	GWC-23A	FALSE	0.16%
Tetrachloroethene	GWC-24	FALSE	0.16%
Tetrachloroethene	GWC-3	FALSE	0.16%
Tetrachloroethene	GWC-3A	FALSE	0.16%
Tetrachloroethene	GWC-8	FALSE	0.16%
Tetrachloroethene	GWC-8A	FALSE	0.16%
Tetrachloroethene	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWC-9	FALSE	0.16%
Tetrachloroethene	GWC-16A	FALSE	0.16%
Tetrachloroethene	GWC-2	FALSE	0.16%
Tetrachloroethene	GWC-23	FALSE	0.16%
Tetrachloroethene	GWC-4	FALSE	0.16%
Toluene	GWA-3	FALSE	1%
Toluene	GWC-11	FALSE	1%
Toluene	GWC-12	FALSE	1%
Toluene	GWC-12A	FALSE	1%
Toluene	GWC-13	FALSE	1%
Toluene	GWC-17	FALSE	1%
Toluene	GWC-18	FALSE	1%
Toluene	GWA-1A	FALSE	1%
Toluene	GWC-15	FALSE	1%
Toluene	GWC-19R	FALSE	1%
Toluene	GWC-22	FALSE	1%
Toluene	GWC-4A	FALSE	1%
Toluene	GWC-5	FALSE	1%
Toluene	GWC-6	FALSE	1%
Toluene	GWC-7	FALSE	1%
Toluene	GWC-10	FALSE	1%
Toluene	GWC-10A	FALSE	1%
Toluene	GWC-14	FALSE	1%
Toluene	GWC-14A	FALSE	1%
Toluene	GWC-14R	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-23A	FALSE	1%
Toluene	GWC-24	FALSE	1%
Toluene	GWC-3	FALSE	1%
Toluene	GWC-3A	FALSE	1%
Toluene	GWC-8	FALSE	1%
Toluene	GWC-8A	FALSE	1%
Toluene	GWC-8R	FALSE	1%
Toluene	GWC-9	FALSE	1%
Toluene	GWC-16A	FALSE	1%
Toluene	GWC-2	FALSE	1%
Toluene	GWC-23	FALSE	1%
Toluene	GWC-4	FALSE	1%
Toluene	GWA-3	FALSE	0.16%
Toluene	GWC-11	FALSE	0.16%
Toluene	GWC-12	FALSE	0.16%
Toluene	GWC-12A	FALSE	0.16%
Toluene	GWC-13	FALSE	0.16%
Toluene	GWC-17	FALSE	0.16%
Toluene	GWC-18	FALSE	0.16%
Toluene	GWA-1A	FALSE	0.16%
Toluene	GWC-15	FALSE	0.16%
Toluene	GWC-19R	FALSE	0.16%
Toluene	GWC-22	FALSE	0.16%
Toluene	GWC-4A	FALSE	0.16%
Toluene	GWC-5	FALSE	0.16%
Toluene	GWC-6	FALSE	0.16%
Toluene	GWC-7	FALSE	0.16%
Toluene	GWC-10	FALSE	0.16%
Toluene	GWC-10A	FALSE	0.16%
Toluene	GWC-14	FALSE	0.16%
Toluene	GWC-14A	FALSE	0.16%
Toluene	GWC-14R	FALSE	0.16%
Toluene	GWC-23A	FALSE	0.16%
Toluene	GWC-24	FALSE	0.16%
Toluene	GWC-3	FALSE	0.16%
Toluene	GWC-3A	FALSE	0.16%
Toluene	GWC-8	FALSE	0.16%
Toluene	GWC-8A	FALSE	0.16%
Toluene	GWC-8R	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-9	FALSE	0.16%
Toluene	GWC-16A	FALSE	0.16%
Toluene	GWC-2	FALSE	0.16%
Toluene	GWC-23	FALSE	0.16%
Toluene	GWC-4	FALSE	0.16%
Total Barium	GWA-1A	FALSE	1%
Total Barium	GWA-3	FALSE	1%
Total Barium	GWC-11	FALSE	1%
Total Barium	GWC-12	FALSE	1%
Total Barium	GWC-12A	FALSE	1%
Total Barium	GWC-13	FALSE	1%
Total Barium	GWC-17	TRUE	1%
Total Barium	GWC-18	TRUE	1%
Total Barium	GWC-14	FALSE	1%
Total Barium	GWC-14A	TRUE	1%
Total Barium	GWC-15	TRUE	1%
Total Barium	GWC-19R	TRUE	1%
Total Barium	GWC-22	FALSE	1%
Total Barium	GWC-23A	FALSE	1%
Total Barium	GWC-4A	FALSE	1%
Total Barium	GWC-5	FALSE	1%
Total Barium	GWC-6	FALSE	1%
Total Barium	GWC-7	TRUE	1%
Total Barium	GWC-10	FALSE	1%
Total Barium	GWC-10A	FALSE	1%
Total Barium	GWC-23	FALSE	1%
Total Barium	GWC-24	FALSE	1%
Total Barium	GWC-3	FALSE	1%
Total Barium	GWC-3A	FALSE	1%
Total Barium	GWC-8	FALSE	1%
Total Barium	GWC-8A	TRUE	1%
Total Barium	GWC-9	TRUE	1%
Total Barium	GWC-16A	FALSE	1%
Total Barium	GWC-2	FALSE	1%
Total Barium	GWC-4	FALSE	1%
Total Barium	GWA-1A	FALSE	0.17%
Total Barium	GWA-3	FALSE	0.17%
Total Barium	GWC-11	FALSE	0.17%
Total Barium	GWC-12	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	GWC-12A	FALSE	0.17%
Total Barium	GWC-13	FALSE	0.17%
Total Barium	GWC-17	FALSE	0.17%
Total Barium	GWC-18	TRUE	0.17%
Total Barium	GWC-14	FALSE	0.17%
Total Barium	GWC-14A	TRUE	0.17%
Total Barium	GWC-15	TRUE	0.17%
Total Barium	GWC-19R	TRUE	0.17%
Total Barium	GWC-22	FALSE	0.17%
Total Barium	GWC-23A	FALSE	0.17%
Total Barium	GWC-4A	FALSE	0.17%
Total Barium	GWC-5	FALSE	0.17%
Total Barium	GWC-6	FALSE	0.17%
Total Barium	GWC-7	FALSE	0.17%
Total Barium	GWC-10	FALSE	0.17%
Total Barium	GWC-10A	FALSE	0.17%
Total Barium	GWC-23	FALSE	0.17%
Total Barium	GWC-24	FALSE	0.17%
Total Barium	GWC-3	FALSE	0.17%
Total Barium	GWC-3A	FALSE	0.17%
Total Barium	GWC-8	FALSE	0.17%
Total Barium	GWC-8A	FALSE	0.17%
Total Barium	GWC-9	TRUE	0.17%
Total Barium	GWC-16A	FALSE	0.17%
Total Barium	GWC-2	FALSE	0.17%
Total Barium	GWC-4	FALSE	0.17%
Total Chromium	GWA-1A	FALSE	1%
Total Chromium	GWA-3	FALSE	1%
Total Chromium	GWC-11	FALSE	1%
Total Chromium	GWC-12	FALSE	1%
Total Chromium	GWC-12A	FALSE	1%
Total Chromium	GWC-13	FALSE	1%
Total Chromium	GWC-17	FALSE	1%
Total Chromium	GWC-18	FALSE	1%
Total Chromium	GWC-14	FALSE	1%
Total Chromium	GWC-14A	FALSE	1%
Total Chromium	GWC-15	FALSE	1%
Total Chromium	GWC-19R	FALSE	1%
Total Chromium	GWC-22	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-23A	FALSE	1%
Total Chromium	GWC-4A	FALSE	1%
Total Chromium	GWC-5	FALSE	1%
Total Chromium	GWC-6	FALSE	1%
Total Chromium	GWC-7	FALSE	1%
Total Chromium	GWC-10	FALSE	1%
Total Chromium	GWC-10A	FALSE	1%
Total Chromium	GWC-23	FALSE	1%
Total Chromium	GWC-24	FALSE	1%
Total Chromium	GWC-3	FALSE	1%
Total Chromium	GWC-3A	FALSE	1%
Total Chromium	GWC-8	FALSE	1%
Total Chromium	GWC-8A	FALSE	1%
Total Chromium	GWC-9	FALSE	1%
Total Chromium	GWC-16A	FALSE	1%
Total Chromium	GWC-2	FALSE	1%
Total Chromium	GWC-4	FALSE	1%
Total Chromium	GWA-1A	FALSE	0.17%
Total Chromium	GWA-3	FALSE	0.17%
Total Chromium	GWC-11	FALSE	0.17%
Total Chromium	GWC-12	FALSE	0.17%
Total Chromium	GWC-12A	FALSE	0.17%
Total Chromium	GWC-13	FALSE	0.17%
Total Chromium	GWC-17	FALSE	0.17%
Total Chromium	GWC-18	FALSE	0.17%
Total Chromium	GWC-14	FALSE	0.17%
Total Chromium	GWC-14A	FALSE	0.17%
Total Chromium	GWC-15	FALSE	0.17%
Total Chromium	GWC-19R	FALSE	0.17%
Total Chromium	GWC-22	FALSE	0.17%
Total Chromium	GWC-23A	FALSE	0.17%
Total Chromium	GWC-4A	FALSE	0.17%
Total Chromium	GWC-5	FALSE	0.17%
Total Chromium	GWC-6	FALSE	0.17%
Total Chromium	GWC-7	FALSE	0.17%
Total Chromium	GWC-10	FALSE	0.17%
Total Chromium	GWC-10A	FALSE	0.17%
Total Chromium	GWC-23	FALSE	0.17%
Total Chromium	GWC-24	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-3	FALSE	0.17%
Total Chromium	GWC-3A	FALSE	0.17%
Total Chromium	GWC-8	FALSE	0.17%
Total Chromium	GWC-8A	FALSE	0.17%
Total Chromium	GWC-9	FALSE	0.17%
Total Chromium	GWC-16A	FALSE	0.17%
Total Chromium	GWC-2	FALSE	0.17%
Total Chromium	GWC-4	FALSE	0.17%
Total Cobalt	GWA-1A	FALSE	1%
Total Cobalt	GWA-3	FALSE	1%
Total Cobalt	GWC-11	FALSE	1%
Total Cobalt	GWC-12	FALSE	1%
Total Cobalt	GWC-12A	FALSE	1%
Total Cobalt	GWC-13	FALSE	1%
Total Cobalt	GWC-17	FALSE	1%
Total Cobalt	GWC-18	FALSE	1%
Total Cobalt	GWC-14	TRUE	1%
Total Cobalt	GWC-14A	TRUE	1%
Total Cobalt	GWC-15	FALSE	1%
Total Cobalt	GWC-19R	FALSE	1%
Total Cobalt	GWC-22	FALSE	1%
Total Cobalt	GWC-23A	FALSE	1%
Total Cobalt	GWC-4A	FALSE	1%
Total Cobalt	GWC-5	FALSE	1%
Total Cobalt	GWC-6	FALSE	1%
Total Cobalt	GWC-7	FALSE	1%
Total Cobalt	GWC-10	FALSE	1%
Total Cobalt	GWC-10A	FALSE	1%
Total Cobalt	GWC-23	FALSE	1%
Total Cobalt	GWC-24	FALSE	1%
Total Cobalt	GWC-3	FALSE	1%
Total Cobalt	GWC-3A	FALSE	1%
Total Cobalt	GWC-8	FALSE	1%
Total Cobalt	GWC-8A	FALSE	1%
Total Cobalt	GWC-9	FALSE	1%
Total Cobalt	GWC-16A	FALSE	1%
Total Cobalt	GWC-2	FALSE	1%
Total Cobalt	GWC-4	FALSE	1%
Total Cobalt	GWA-1A	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWA-3	FALSE	0.17%
Total Cobalt	GWC-11	FALSE	0.17%
Total Cobalt	GWC-12	FALSE	0.17%
Total Cobalt	GWC-12A	FALSE	0.17%
Total Cobalt	GWC-13	FALSE	0.17%
Total Cobalt	GWC-17	FALSE	0.17%
Total Cobalt	GWC-18	FALSE	0.17%
Total Cobalt	GWC-14	TRUE	0.17%
Total Cobalt	GWC-14A	TRUE	0.17%
Total Cobalt	GWC-15	FALSE	0.17%
Total Cobalt	GWC-19R	FALSE	0.17%
Total Cobalt	GWC-22	FALSE	0.17%
Total Cobalt	GWC-23A	FALSE	0.17%
Total Cobalt	GWC-4A	FALSE	0.17%
Total Cobalt	GWC-5	FALSE	0.17%
Total Cobalt	GWC-6	FALSE	0.17%
Total Cobalt	GWC-7	FALSE	0.17%
Total Cobalt	GWC-10	FALSE	0.17%
Total Cobalt	GWC-10A	FALSE	0.17%
Total Cobalt	GWC-23	FALSE	0.17%
Total Cobalt	GWC-24	FALSE	0.17%
Total Cobalt	GWC-3	FALSE	0.17%
Total Cobalt	GWC-3A	FALSE	0.17%
Total Cobalt	GWC-8	FALSE	0.17%
Total Cobalt	GWC-8A	FALSE	0.17%
Total Cobalt	GWC-9	FALSE	0.17%
Total Cobalt	GWC-16A	FALSE	0.17%
Total Cobalt	GWC-2	FALSE	0.17%
Total Cobalt	GWC-4	FALSE	0.17%
Total Copper	GWA-1A	FALSE	5%
Total Copper	GWA-3	FALSE	5%
Total Copper	GWC-11	FALSE	5%
Total Copper	GWC-12	FALSE	5%
Total Copper	GWC-12A	FALSE	5%
Total Copper	GWC-13	FALSE	5%
Total Copper	GWC-17	FALSE	5%
Total Copper	GWC-18	FALSE	5%
Total Copper	GWC-14	FALSE	5%
Total Copper	GWC-14A	FALSE	5%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Copper	GWC-15	FALSE	5%
Total Copper	GWC-19R	FALSE	5%
Total Copper	GWC-22	FALSE	5%
Total Copper	GWC-23A	FALSE	5%
Total Copper	GWC-4A	FALSE	5%
Total Copper	GWC-5	FALSE	5%
Total Copper	GWC-6	FALSE	5%
Total Copper	GWC-7	FALSE	5%
Total Copper	GWC-10	FALSE	5%
Total Copper	GWC-10A	FALSE	5%
Total Copper	GWC-23	FALSE	5%
Total Copper	GWC-24	FALSE	5%
Total Copper	GWC-3	FALSE	5%
Total Copper	GWC-3A	FALSE	5%
Total Copper	GWC-8	FALSE	5%
Total Copper	GWC-8A	FALSE	5%
Total Copper	GWC-9	FALSE	5%
Total Copper	GWC-16A	FALSE	5%
Total Copper	GWC-2	FALSE	5%
Total Copper	GWC-4	FALSE	5%
Total Nickel	GWA-1A	FALSE	1%
Total Nickel	GWA-3	FALSE	1%
Total Nickel	GWC-11	FALSE	1%
Total Nickel	GWC-12	FALSE	1%
Total Nickel	GWC-12A	FALSE	1%
Total Nickel	GWC-13	FALSE	1%
Total Nickel	GWC-17	FALSE	1%
Total Nickel	GWC-18	FALSE	1%
Total Nickel	GWC-14	FALSE	1%
Total Nickel	GWC-14A	TRUE	1%
Total Nickel	GWC-15	FALSE	1%
Total Nickel	GWC-19R	FALSE	1%
Total Nickel	GWC-22	FALSE	1%
Total Nickel	GWC-23A	FALSE	1%
Total Nickel	GWC-4A	FALSE	1%
Total Nickel	GWC-5	FALSE	1%
Total Nickel	GWC-6	FALSE	1%
Total Nickel	GWC-7	FALSE	1%
Total Nickel	GWC-10	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-10A	FALSE	1%
Total Nickel	GWC-23	FALSE	1%
Total Nickel	GWC-24	FALSE	1%
Total Nickel	GWC-3	FALSE	1%
Total Nickel	GWC-3A	FALSE	1%
Total Nickel	GWC-8	FALSE	1%
Total Nickel	GWC-8A	FALSE	1%
Total Nickel	GWC-9	FALSE	1%
Total Nickel	GWC-16A	FALSE	1%
Total Nickel	GWC-2	FALSE	1%
Total Nickel	GWC-4	FALSE	1%
Total Nickel	GWA-1A	FALSE	0.17%
Total Nickel	GWA-3	FALSE	0.17%
Total Nickel	GWC-11	FALSE	0.17%
Total Nickel	GWC-12	FALSE	0.17%
Total Nickel	GWC-12A	FALSE	0.17%
Total Nickel	GWC-13	FALSE	0.17%
Total Nickel	GWC-17	FALSE	0.17%
Total Nickel	GWC-18	FALSE	0.17%
Total Nickel	GWC-14	FALSE	0.17%
Total Nickel	GWC-14A	TRUE	0.17%
Total Nickel	GWC-15	FALSE	0.17%
Total Nickel	GWC-19R	FALSE	0.17%
Total Nickel	GWC-22	FALSE	0.17%
Total Nickel	GWC-23A	FALSE	0.17%
Total Nickel	GWC-4A	FALSE	0.17%
Total Nickel	GWC-5	FALSE	0.17%
Total Nickel	GWC-6	FALSE	0.17%
Total Nickel	GWC-7	FALSE	0.17%
Total Nickel	GWC-10	FALSE	0.17%
Total Nickel	GWC-10A	FALSE	0.17%
Total Nickel	GWC-23	FALSE	0.17%
Total Nickel	GWC-24	FALSE	0.17%
Total Nickel	GWC-3	FALSE	0.17%
Total Nickel	GWC-3A	FALSE	0.17%
Total Nickel	GWC-8	FALSE	0.17%
Total Nickel	GWC-8A	FALSE	0.17%
Total Nickel	GWC-9	FALSE	0.17%
Total Nickel	GWC-16A	FALSE	0.17%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-2	FALSE	0.17%
Total Nickel	GWC-4	FALSE	0.17%
Total Zinc	GWA-1A	FALSE	1%
Total Zinc	GWA-3	FALSE	1%
Total Zinc	GWC-11	FALSE	1%
Total Zinc	GWC-12	FALSE	1%
Total Zinc	GWC-12A	FALSE	1%
Total Zinc	GWC-13	FALSE	1%
Total Zinc	GWC-17	FALSE	1%
Total Zinc	GWC-18	FALSE	1%
Total Zinc	GWC-14	FALSE	1%
Total Zinc	GWC-14A	FALSE	1%
Total Zinc	GWC-15	FALSE	1%
Total Zinc	GWC-19R	FALSE	1%
Total Zinc	GWC-22	FALSE	1%
Total Zinc	GWC-23A	FALSE	1%
Total Zinc	GWC-4A	FALSE	1%
Total Zinc	GWC-5	FALSE	1%
Total Zinc	GWC-6	FALSE	1%
Total Zinc	GWC-7	FALSE	1%
Total Zinc	GWC-10	FALSE	1%
Total Zinc	GWC-10A	FALSE	1%
Total Zinc	GWC-23	FALSE	1%
Total Zinc	GWC-24	FALSE	1%
Total Zinc	GWC-3	FALSE	1%
Total Zinc	GWC-3A	FALSE	1%
Total Zinc	GWC-8	FALSE	1%
Total Zinc	GWC-8A	FALSE	1%
Total Zinc	GWC-9	TRUE	1%
Total Zinc	GWC-16A	FALSE	1%
Total Zinc	GWC-2	FALSE	1%
Total Zinc	GWC-4	FALSE	1%
Total Zinc	GWA-1A	FALSE	0.17%
Total Zinc	GWA-3	FALSE	0.17%
Total Zinc	GWC-11	FALSE	0.17%
Total Zinc	GWC-12	FALSE	0.17%
Total Zinc	GWC-12A	FALSE	0.17%
Total Zinc	GWC-13	FALSE	0.17%
Total Zinc	GWC-17	FALSE	0.17%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-18	FALSE	0.17%
Total Zinc	GWC-14	FALSE	0.17%
Total Zinc	GWC-14A	FALSE	0.17%
Total Zinc	GWC-15	FALSE	0.17%
Total Zinc	GWC-19R	FALSE	0.17%
Total Zinc	GWC-22	FALSE	0.17%
Total Zinc	GWC-23A	FALSE	0.17%
Total Zinc	GWC-4A	FALSE	0.17%
Total Zinc	GWC-5	FALSE	0.17%
Total Zinc	GWC-6	FALSE	0.17%
Total Zinc	GWC-7	FALSE	0.17%
Total Zinc	GWC-10	FALSE	0.17%
Total Zinc	GWC-10A	FALSE	0.17%
Total Zinc	GWC-23	FALSE	0.17%
Total Zinc	GWC-24	FALSE	0.17%
Total Zinc	GWC-3	FALSE	0.17%
Total Zinc	GWC-3A	FALSE	0.17%
Total Zinc	GWC-8	FALSE	0.17%
Total Zinc	GWC-8A	FALSE	0.17%
Total Zinc	GWC-9	FALSE	0.17%
Total Zinc	GWC-16A	FALSE	0.17%
Total Zinc	GWC-2	FALSE	0.17%
Total Zinc	GWC-4	FALSE	0.17%
Trichloroethene	GWA-3	FALSE	1%
Trichloroethene	GWC-11	FALSE	1%
Trichloroethene	GWC-12	FALSE	1%
Trichloroethene	GWC-12A	FALSE	1%
Trichloroethene	GWC-13	FALSE	1%
Trichloroethene	GWC-17	FALSE	1%
Trichloroethene	GWC-18	TRUE	1%
Trichloroethene	GWA-1A	FALSE	1%
Trichloroethene	GWC-15	TRUE	1%
Trichloroethene	GWC-19R	FALSE	1%
Trichloroethene	GWC-22	FALSE	1%
Trichloroethene	GWC-4A	FALSE	1%
Trichloroethene	GWC-5	FALSE	1%
Trichloroethene	GWC-6	FALSE	1%
Trichloroethene	GWC-7	FALSE	1%
Trichloroethene	GWC-10	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-10A	FALSE	1%
Trichloroethene	GWC-14	FALSE	1%
Trichloroethene	GWC-14A	TRUE	1%
Trichloroethene	GWC-14R	TRUE	1%
Trichloroethene	GWC-23A	FALSE	1%
Trichloroethene	GWC-24	FALSE	1%
Trichloroethene	GWC-3	FALSE	1%
Trichloroethene	GWC-3A	FALSE	1%
Trichloroethene	GWC-8	FALSE	1%
Trichloroethene	GWC-8A	FALSE	1%
Trichloroethene	GWC-8R	TRUE	1%
Trichloroethene	GWC-9	FALSE	1%
Trichloroethene	GWC-16A	FALSE	1%
Trichloroethene	GWC-2	FALSE	1%
Trichloroethene	GWC-23	FALSE	1%
Trichloroethene	GWC-4	FALSE	1%
Trichloroethene	GWA-3	FALSE	0.16%
Trichloroethene	GWC-11	FALSE	0.16%
Trichloroethene	GWC-12	FALSE	0.16%
Trichloroethene	GWC-12A	FALSE	0.16%
Trichloroethene	GWC-13	FALSE	0.16%
Trichloroethene	GWC-17	FALSE	0.16%
Trichloroethene	GWC-18	FALSE	0.16%
Trichloroethene	GWA-1A	FALSE	0.16%
Trichloroethene	GWC-15	FALSE	0.16%
Trichloroethene	GWC-19R	FALSE	0.16%
Trichloroethene	GWC-22	FALSE	0.16%
Trichloroethene	GWC-4A	FALSE	0.16%
Trichloroethene	GWC-5	FALSE	0.16%
Trichloroethene	GWC-6	FALSE	0.16%
Trichloroethene	GWC-7	FALSE	0.16%
Trichloroethene	GWC-10	FALSE	0.16%
Trichloroethene	GWC-10A	FALSE	0.16%
Trichloroethene	GWC-14	FALSE	0.16%
Trichloroethene	GWC-14A	TRUE	0.16%
Trichloroethene	GWC-14R	TRUE	0.16%
Trichloroethene	GWC-23A	FALSE	0.16%
Trichloroethene	GWC-24	FALSE	0.16%
Trichloroethene	GWC-3	FALSE	0.16%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-3A	FALSE	0.16%
Trichloroethene	GWC-8	FALSE	0.16%
Trichloroethene	GWC-8A	FALSE	0.16%
Trichloroethene	GWC-8R	FALSE	0.16%
Trichloroethene	GWC-9	FALSE	0.16%
Trichloroethene	GWC-16A	FALSE	0.16%
Trichloroethene	GWC-2	FALSE	0.16%
Trichloroethene	GWC-23	FALSE	0.16%
Trichloroethene	GWC-4	FALSE	0.16%
Vinyl chloride	GWA-3	FALSE	1%
Vinyl chloride	GWC-11	FALSE	1%
Vinyl chloride	GWC-12	FALSE	1%
Vinyl chloride	GWC-12A	FALSE	1%
Vinyl chloride	GWC-13	FALSE	1%
Vinyl chloride	GWC-17	FALSE	1%
Vinyl chloride	GWC-18	FALSE	1%
Vinyl chloride	GWA-1A	FALSE	1%
Vinyl chloride	GWC-15	FALSE	1%
Vinyl chloride	GWC-19R	FALSE	1%
Vinyl chloride	GWC-22	FALSE	1%
Vinyl chloride	GWC-4A	FALSE	1%
Vinyl chloride	GWC-5	FALSE	1%
Vinyl chloride	GWC-6	FALSE	1%
Vinyl chloride	GWC-7	FALSE	1%
Vinyl chloride	GWC-10	FALSE	1%
Vinyl chloride	GWC-10A	FALSE	1%
Vinyl chloride	GWC-14	FALSE	1%
Vinyl chloride	GWC-14A	TRUE	1%
Vinyl chloride	GWC-14R	FALSE	1%
Vinyl chloride	GWC-23A	FALSE	1%
Vinyl chloride	GWC-24	FALSE	1%
Vinyl chloride	GWC-3	FALSE	1%
Vinyl chloride	GWC-3A	FALSE	1%
Vinyl chloride	GWC-8	FALSE	1%
Vinyl chloride	GWC-8A	FALSE	1%
Vinyl chloride	GWC-8R	FALSE	1%
Vinyl chloride	GWC-9	FALSE	1%
Vinyl chloride	GWC-16A	FALSE	1%
Vinyl chloride	GWC-2	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-23	FALSE	1%
Vinyl chloride	GWC-4	FALSE	1%
Vinyl chloride	GWA-3	FALSE	0.16%
Vinyl chloride	GWC-11	FALSE	0.16%
Vinyl chloride	GWC-12	FALSE	0.16%
Vinyl chloride	GWC-12A	FALSE	0.16%
Vinyl chloride	GWC-13	FALSE	0.16%
Vinyl chloride	GWC-17	FALSE	0.16%
Vinyl chloride	GWC-18	FALSE	0.16%
Vinyl chloride	GWA-1A	FALSE	0.16%
Vinyl chloride	GWC-15	FALSE	0.16%
Vinyl chloride	GWC-19R	FALSE	0.16%
Vinyl chloride	GWC-22	FALSE	0.16%
Vinyl chloride	GWC-4A	FALSE	0.16%
Vinyl chloride	GWC-5	FALSE	0.16%
Vinyl chloride	GWC-6	FALSE	0.16%
Vinyl chloride	GWC-7	FALSE	0.16%
Vinyl chloride	GWC-10	FALSE	0.16%
Vinyl chloride	GWC-10A	FALSE	0.16%
Vinyl chloride	GWC-14	FALSE	0.16%
Vinyl chloride	GWC-14A	TRUE	0.16%
Vinyl chloride	GWC-14R	FALSE	0.16%
Vinyl chloride	GWC-23A	FALSE	0.16%
Vinyl chloride	GWC-24	FALSE	0.16%
Vinyl chloride	GWC-3	FALSE	0.16%
Vinyl chloride	GWC-3A	FALSE	0.16%
Vinyl chloride	GWC-8	FALSE	0.16%
Vinyl chloride	GWC-8A	FALSE	0.16%
Vinyl chloride	GWC-8R	FALSE	0.16%
Vinyl chloride	GWC-9	FALSE	0.16%
Vinyl chloride	GWC-16A	FALSE	0.16%
Vinyl chloride	GWC-2	FALSE	0.16%
Vinyl chloride	GWC-23	FALSE	0.16%
Vinyl chloride	GWC-4	FALSE	0.16%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Kruskal-Wallis Non-Parametric Test

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/23/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/13/2017	ND<1	167.5
	12/11/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/10/2019	ND<1	167.5
	12/9/2019	ND<1	167.5

Rank Sum = 2010

Rank Mean = 167.5

GWA-2	6/11/2014	ND<1	167.5
	12/9/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/13/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/15/2017	ND<1	167.5
	12/11/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 2010

Rank Mean = 167.5

Background Rank Sum = 4020

Background Rank Mean = 167.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/13/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/11/2017	ND<1	167.5
	6/18/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/11/2019	ND<1	167.5

12/10/2019 ND<1 167.5

Rank Sum = 2010

Rank Mean = 167.5

GWC-11	6/9/2014	ND<1	167.5
	12/9/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/12/2019	ND<1	167.5

Rank Sum = 2010

Rank Mean = 167.5

GWC-12	6/9/2014	ND<1	167.5
	12/9/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/9/2019	ND<1	167.5

Rank Sum = 2010

Rank Mean = 167.5

GWC-12A	6/9/2014	ND<1	167.5
	12/9/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/9/2019	ND<1	167.5

Rank Sum = 2010

Rank Mean = 167.5

GWC-13	6/9/2014	ND<1	167.5
	12/11/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/12/2017	ND<1	167.5

1,1-Dichloroethane

6/19/2018	ND<1	167.5
12/19/2018	ND<1	167.5
6/12/2019	ND<1	167.5
12/11/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-17	6/9/2014	ND<1	167.5
	12/10/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/13/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/12/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/10/2019	ND<1	167.5

Rank Sum = 1842.5
Rank Mean = 167.5

GWC-18	6/9/2014	2	335
	12/10/2014	2.9	338
	6/22/2015	2.7	337
	12/9/2015	ND<1	167.5
	6/13/2016	ND<1	167.5
	12/6/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/9/2019	ND<1	167.5

Rank Sum = 2517.5
Rank Mean = 209.792

GWA-1A	6/10/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/23/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/12/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/10/2019	ND<1	167.5
	12/9/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-15	6/10/2014	ND<1	167.5
	12/10/2014	5.4	354
	6/23/2015	ND<1	167.5
	12/9/2015	5.2	353
	6/15/2016	ND<1	167.5
	12/8/2016	38	395

1,1-Dichloroethane

6/14/2017	2.9	339
12/13/2017	3.7	345
6/19/2018	ND<1	167.5
12/19/2018	3	340
6/11/2019	38	396
12/10/2019	23	388

Rank Sum = 3580
Rank Mean = 298.333

GWC-19R	6/10/2014	ND<1	167.5
	12/10/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	12/6/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/9/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-22	6/10/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	12/6/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/11/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-4A	6/10/2014	ND<1	167.5
	12/11/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/16/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/13/2017	ND<1	167.5
	12/12/2017	ND<1	167.5
	6/20/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-5	6/10/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/24/2015	ND<1	167.5

1,1-Dichloroethane

12/7/2015	ND<1	167.5
6/14/2016	ND<1	167.5
12/8/2016	ND<1	167.5
6/12/2017	ND<1	167.5
12/12/2017	ND<1	167.5
6/21/2018	ND<1	167.5
12/18/2018	ND<1	167.5
6/12/2019	ND<1	167.5
12/10/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-6	6/10/2014	ND<1	167.5
	12/9/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/12/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/21/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/10/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-7	6/10/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/12/2017	ND<1	167.5
	12/12/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-10	6/11/2014	ND<1	167.5
	12/9/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/15/2017	ND<1	167.5
	12/12/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/10/2019	ND<1	167.5
	12/12/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

1,1-Dichloroethane

GWC-10A	6/11/2014	ND<1	167.5
	12/9/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/7/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/15/2017	ND<1	167.5
	12/12/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/10/2019	ND<1	167.5
	12/12/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-14	6/11/2014	ND<1	167.5
	12/10/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	6/13/2017	ND<1	167.5
	6/20/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/10/2019	ND<1	167.5

Rank Sum = 1507.5
Rank Mean = 167.5

GWC-14A	6/11/2014	14	363
	12/10/2014	19	379
	6/23/2015	13	361
	12/9/2015	16	370
	6/15/2016	16	371
	12/8/2016	22	384
	6/13/2017	16	372
	12/12/2017	23	389
	6/20/2018	17	375
	12/19/2018	16	373
	6/11/2019	9.2	358
	12/10/2019	14	364

Rank Sum = 4459
Rank Mean = 371.583

GWC-14R	6/11/2014	34	394
	12/10/2014	30	393
	6/23/2015	25	391
	12/10/2015	22	385
	6/15/2016	26	392
	12/8/2016	24	390
	6/13/2017	21	383
	12/12/2017	20	381
	6/20/2018	22	386
	12/19/2018	18	376
	6/12/2019	18	377
	12/10/2019	14	365

Rank Sum = 4613
Rank Mean = 384.417

1,1-Dichloroethane

GWC-23A	6/11/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	12/6/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/11/2017	ND<1	167.5
	6/18/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-24	6/11/2014	ND<1	167.5
	12/10/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/13/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/19/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/9/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-3	6/11/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/15/2017	ND<1	167.5
	6/21/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/10/2019	ND<1	167.5

Rank Sum = 1675
Rank Mean = 167.5

GWC-3A	6/11/2014	ND<1	167.5
	12/11/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/15/2017	ND<1	167.5
	12/12/2017	ND<1	167.5
	6/20/2018	ND<1	167.5
	12/17/2018	ND<1	167.5
	6/11/2019	ND<1	167.5
	12/10/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

1,1-Dichloroethane

GWC-8	6/11/2014	ND<1	167.5
	12/10/2014	ND<1	167.5
	6/23/2015	ND<1	167.5
	12/10/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	12/12/2017	ND<1	167.5
	6/20/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 1842.5
Rank Mean = 167.5

GWC-8A	6/11/2014	3.6	344
	12/10/2014	6.1	356
	6/24/2015	3	341
	12/10/2015	3.8	348
	6/15/2016	3.4	343
	12/8/2016	5.1	352
	6/13/2017	3	342
	12/12/2017	4.9	351
	6/20/2018	3.9	349
	12/19/2018	4.2	350
	6/12/2019	2.6	336
	12/11/2019	3.7	346

Rank Sum = 4158
Rank Mean = 346.5

GWC-8R	6/11/2014	20	382
	12/10/2014	19	380
	6/23/2015	16	374
	12/10/2015	18	378
	6/15/2016	15	368
	12/8/2016	15	369
	6/13/2017	14	366
	12/12/2017	14	367
	6/20/2018	22	387
	12/19/2018	13	362
	6/12/2019	12	360
	12/11/2019	9.3	359

Rank Sum = 4452
Rank Mean = 371

GWC-9	6/11/2014	ND<1	167.5
	12/11/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/15/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/20/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/12/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

Well	Date	Result	Rank
GWC-16A	6/12/2014	6.5	357
	12/10/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/9/2015	5.5	355
	6/16/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/14/2017	3.7	347
	12/13/2017	ND<1	167.5
	6/21/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/13/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 2566.5
Rank Mean = 213.875

Well	Date	Result	Rank
GWC-2	6/12/2014	ND<1	167.5
	12/11/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/14/2016	ND<1	167.5
	12/8/2016	ND<1	167.5
	6/15/2017	ND<1	167.5
	12/13/2017	ND<1	167.5
	6/20/2018	ND<1	167.5
	12/19/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/10/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

Well	Date	Result	Rank
GWC-23	6/12/2014	ND<1	167.5
	12/8/2014	ND<1	167.5
	6/22/2015	ND<1	167.5
	12/8/2015	ND<1	167.5
	6/15/2016	ND<1	167.5
	12/6/2016	ND<1	167.5
	6/14/2017	ND<1	167.5
	12/11/2017	ND<1	167.5
	6/18/2018	ND<1	167.5
	12/18/2018	ND<1	167.5
	6/12/2019	ND<1	167.5
	12/11/2019	ND<1	167.5

Rank Sum = 2010
Rank Mean = 167.5

Well	Date	Result	Rank
GWC-4	6/12/2014	ND<1	167.5
	12/11/2014	ND<1	167.5
	6/24/2015	ND<1	167.5
	12/9/2015	ND<1	167.5
	6/16/2016	ND<1	167.5
	12/7/2016	ND<1	167.5
	6/20/2018	ND<1	167.5

Rank Sum = 1172.5
Rank Mean = 167.5

Calculation Results:

Kruskal-Wallis H Statistic = 138.768

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 346.921

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

138.768 > 46.1942 indicating a significant group difference at 5% significance level**346.921 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties****Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 167.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	167.5	0	94.1414
GWC-11	167.5	0	94.1414
GWC-12	167.5	0	94.1414
GWC-12A	167.5	0	94.1414
GWC-13	167.5	0	94.1414
GWC-17	167.5	0	96.9522
GWC-18	209.792	42.2917	94.1414
GWA-1A	167.5	0	94.1414
GWC-15	298.333	130.833	94.1414
GWC-19R	167.5	0	94.1414
GWC-22	167.5	0	94.1414
GWC-4A	167.5	0	94.1414
GWC-5	167.5	0	94.1414
GWC-6	167.5	0	94.1414
GWC-7	167.5	0	94.1414
GWC-10	167.5	0	94.1414
GWC-10A	167.5	0	94.1414
GWC-14	167.5	0	104.077
GWC-14A	371.583	204.083	94.1414
GWC-14R	384.417	216.917	94.1414
GWC-23A	167.5	0	94.1414
GWC-24	167.5	0	94.1414
GWC-3	167.5	0	100.221
GWC-3A	167.5	0	94.1414
GWC-8	167.5	0	96.9522
GWC-8A	346.5	179	94.1414
GWC-8R	371	203.5	94.1414
GWC-9	167.5	0	94.1414
GWC-16A	213.875	46.375	94.1414
GWC-2	167.5	0	94.1414
GWC-23	167.5	0	94.1414
GWC-4	167.5	0	114.38

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024

Mean background rank is 167.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	167.5	0	125.055
GWC-11	167.5	0	125.055
GWC-12	167.5	0	125.055
GWC-12A	167.5	0	125.055
GWC-13	167.5	0	125.055

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GWC-17	167.5	0	128.789
GWC-18	209.792	42.2917	125.055
GWA-1A	167.5	0	125.055
GWC-15	298.333	130.833	125.055
GWC-19R	167.5	0	125.055
GWC-22	167.5	0	125.055
GWC-4A	167.5	0	125.055
GWC-5	167.5	0	125.055
GWC-6	167.5	0	125.055
GWC-7	167.5	0	125.055
GWC-10	167.5	0	125.055
GWC-10A	167.5	0	125.055
GWC-14	167.5	0	138.253
GWC-14A	371.583	204.083	125.055
GWC-14R	384.417	216.917	125.055
GWC-23A	167.5	0	125.055
GWC-24	167.5	0	125.055
GWC-3	167.5	0	133.131
GWC-3A	167.5	0	125.055
GWC-8	167.5	0	128.789
GWC-8A	346.5	179	125.055
GWC-8R	371	203.5	125.055
GWC-9	167.5	0	125.055
GWC-16A	213.875	46.375	125.055
GWC-2	167.5	0	125.055
GWC-23	167.5	0	125.055
GWC-4	167.5	0	151.94

Acetone

Kruskal-Wallis Non-Parametric Test

Parameter: Acetone

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/10/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-2	6/11/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

Background Rank Sum = 4740

Background Rank Mean = 197.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/18/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Acetone

12/10/2019 ND<50 197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-11	6/9/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/12/2019	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-12	6/9/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-12A	6/9/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-13	6/9/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/12/2017	ND<50	197.5

Acetone

6/19/2018 ND<50 197.5

12/19/2018 ND<50 197.5

6/12/2019 ND<50 197.5

12/11/2019 ND<50 197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-17	6/9/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 2172.5

Rank Mean = 197.5

GWC-18	6/9/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-1A	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/12/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/10/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-15	6/10/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5

Acetone

6/14/2017	ND<50	197.5
12/13/2017	ND<50	197.5
6/19/2018	ND<50	197.5
12/19/2018	ND<50	197.5
6/11/2019	ND<50	197.5
12/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-19R	6/10/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-22	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4A	6/10/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-5	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/24/2015	ND<50	197.5

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12/7/2015	ND<50	197.5
6/14/2016	ND<50	197.5
12/8/2016	ND<50	197.5
6/12/2017	ND<50	197.5
12/12/2017	ND<50	197.5
6/21/2018	ND<50	197.5
12/18/2018	ND<50	197.5
6/12/2019	ND<50	197.5
12/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-6	6/10/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/12/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-7	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/12/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-10	6/11/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/10/2019	ND<50	197.5
	12/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

Acetone

GWC-10A	6/11/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/10/2019	ND<50	197.5
	12/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 1777.5
Rank Mean = 197.5

GWC-14A	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14R	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

Acetone

GWC-23A	6/11/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/18/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-24	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-3	6/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 1975
Rank Mean = 197.5

GWC-3A	6/11/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

Acetone

GWC-8	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-8A	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8R	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-9	6/11/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/12/2019	ND<50	197.5

Acetone

Rank Sum = 2370
Rank Mean = 197.5

GWC-16A	6/12/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	1300	395
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	1500	396
	12/13/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/13/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2766
Rank Mean = 230.5

GWC-2	6/12/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-23	6/12/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/18/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4	6/12/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/20/2018	ND<50	197.5

Rank Sum = 1382.5
Rank Mean = 197.5

Acetone

Calculation Results:

Kruskal-Wallis H Statistic = 0.967254

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.162

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

0.967254 < 46.1942 indicating no significant group difference at 5% significance level

64.162 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWA-1A	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-4A	197.5	0	94.1414
GWC-5	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-14	197.5	0	104.077
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-24	197.5	0	94.1414
GWC-3	197.5	0	100.221
GWC-3A	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWC-16A	230.5	33	94.1414
GWC-2	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-4	197.5	0	114.38

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-13	197.5	0	125.055

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GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWA-1A	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-22	197.5	0	125.055
GWC-4A	197.5	0	125.055
GWC-5	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-14	197.5	0	138.253
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-23A	197.5	0	125.055
GWC-24	197.5	0	125.055
GWC-3	197.5	0	133.131
GWC-3A	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-9	197.5	0	125.055
GWC-16A	230.5	33	125.055
GWC-2	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-4	197.5	0	151.94

Kruskal-Wallis Non-Parametric Test**Parameter: Benzene**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWA-2	6/11/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

Background Rank Sum = 4452

Background Rank Mean = 185.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5

12/10/2019 ND<1 185.5
 Rank Sum = 2226
 Rank Mean = 185.5

GWC-11	6/9/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/12/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-12	6/9/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-12A	6/9/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-13	6/9/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/12/2017	ND<1	185.5

Benzene

6/19/2018	ND<1	185.5
12/19/2018	ND<1	185.5
6/12/2019	ND<1	185.5
12/11/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-17	6/9/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5

Rank Sum = 2040.5

Rank Mean = 185.5

GWC-18	6/9/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWA-1A	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-15	6/10/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	3.2	393

Benzene

6/14/2017	ND<1	185.5
12/13/2017	ND<1	185.5
6/19/2018	ND<1	185.5
12/19/2018	ND<1	185.5
6/11/2019	3.1	391
12/10/2019	ND<1	185.5

Rank Sum = 2639

Rank Mean = 219.917

GWC-19R	6/10/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-22	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-4A	6/10/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-5	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/24/2015	ND<1	185.5

Benzene

12/7/2015	ND<1	185.5
6/14/2016	ND<1	185.5
12/8/2016	ND<1	185.5
6/12/2017	ND<1	185.5
12/12/2017	ND<1	185.5
6/21/2018	ND<1	185.5
12/18/2018	ND<1	185.5
6/12/2019	ND<1	185.5
12/10/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-6	6/10/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-7	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-10	6/11/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
	12/12/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

Benzene

GWC-10A	6/11/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
	12/12/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-14	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/10/2019	ND<1	185.5

Rank Sum = 1669.5
Rank Mean = 185.5

GWC-14A	6/11/2014	2.2	372
	12/10/2014	2.4	379
	6/23/2015	2.5	380
	12/9/2015	2.3	375
	6/15/2016	2.5	381
	12/8/2016	2.3	376
	6/13/2017	2.8	386
	12/12/2017	3	390
	6/20/2018	2.8	387
	12/19/2018	2.5	382
	6/11/2019	2.1	371
	12/10/2019	2.6	383

Rank Sum = 4562
Rank Mean = 380.167

GWC-14R	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

Benzene

GWC-23A	6/11/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-24	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-3	6/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/10/2019	ND<1	185.5

Rank Sum = 1855
Rank Mean = 185.5

GWC-3A	6/11/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/10/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

Benzene

GWC-8	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2040.5
Rank Mean = 185.5

GWC-8A	6/11/2014	ND<1	185.5
	12/10/2014	3.1	392
	6/24/2015	ND<1	185.5
	12/10/2015	2.7	384
	6/15/2016	2.2	373
	12/8/2016	3.2	394
	6/13/2017	2.3	377
	12/12/2017	3.8	396
	6/20/2018	2.7	385
	12/19/2018	3.3	395
	6/12/2019	ND<1	185.5
	12/11/2019	2.8	388

Rank Sum = 4040.5
Rank Mean = 336.708

GWC-8R	6/11/2014	2.3	378
	12/10/2014	2.2	374
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2607
Rank Mean = 217.25

GWC-9	6/11/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/12/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

Well	Date	Result	Rank
GWC-16A	6/12/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	2.8	389
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/13/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2429.5
Rank Mean = 202.458

Well	Date	Result	Rank
GWC-2	6/12/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

Well	Date	Result	Rank
GWC-23	6/12/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

Well	Date	Result	Rank
GWC-4	6/12/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/20/2018	ND<1	185.5

Rank Sum = 1298.5
Rank Mean = 185.5

Calculation Results:

Kruskal-Wallis H Statistic = 52.8163

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 286.545

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

52.8163 > 46.1942 indicating a significant group difference at 5% significance level

286.545 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 185.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	185.5	0	94.1414
GWC-11	185.5	0	94.1414
GWC-12	185.5	0	94.1414
GWC-12A	185.5	0	94.1414
GWC-13	185.5	0	94.1414
GWC-17	185.5	0	96.9522
GWC-18	185.5	0	94.1414
GWA-1A	185.5	0	94.1414
GWC-15	219.917	34.4167	94.1414
GWC-19R	185.5	0	94.1414
GWC-22	185.5	0	94.1414
GWC-4A	185.5	0	94.1414
GWC-5	185.5	0	94.1414
GWC-6	185.5	0	94.1414
GWC-7	185.5	0	94.1414
GWC-10	185.5	0	94.1414
GWC-10A	185.5	0	94.1414
GWC-14	185.5	0	104.077
GWC-14A	380.167	194.667	94.1414
GWC-14R	185.5	0	94.1414
GWC-23A	185.5	0	94.1414
GWC-24	185.5	0	94.1414
GWC-3	185.5	0	100.221
GWC-3A	185.5	0	94.1414
GWC-8	185.5	0	96.9522
GWC-8A	336.708	151.208	94.1414
GWC-8R	217.25	31.75	94.1414
GWC-9	185.5	0	94.1414
GWC-16A	202.458	16.9583	94.1414
GWC-2	185.5	0	94.1414
GWC-23	185.5	0	94.1414
GWC-4	185.5	0	114.38

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024

Mean background rank is 185.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	185.5	0	125.055
GWC-11	185.5	0	125.055
GWC-12	185.5	0	125.055
GWC-12A	185.5	0	125.055
GWC-13	185.5	0	125.055

Benzene

GWC-17	185.5	0	128.789
GWC-18	185.5	0	125.055
GWA-1A	185.5	0	125.055
GWC-15	219.917	34.4167	125.055
GWC-19R	185.5	0	125.055
GWC-22	185.5	0	125.055
GWC-4A	185.5	0	125.055
GWC-5	185.5	0	125.055
GWC-6	185.5	0	125.055
GWC-7	185.5	0	125.055
GWC-10	185.5	0	125.055
GWC-10A	185.5	0	125.055
GWC-14	185.5	0	138.253
GWC-14A	380.167	194.667	125.055
GWC-14R	185.5	0	125.055
GWC-23A	185.5	0	125.055
GWC-24	185.5	0	125.055
GWC-3	185.5	0	133.131
GWC-3A	185.5	0	125.055
GWC-8	185.5	0	128.789
GWC-8A	336.708	151.208	125.055
GWC-8R	217.25	31.75	125.055
GWC-9	185.5	0	125.055
GWC-16A	202.458	16.9583	125.055
GWC-2	185.5	0	125.055
GWC-23	185.5	0	125.055
GWC-4	185.5	0	151.94

Chloroethane

Kruskal-Wallis Non-Parametric Test

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	189
	12/8/2014	ND<1	189
	6/23/2015	ND<1	189
	12/8/2015	ND<1	189
	6/14/2016	ND<1	189
	12/7/2016	ND<1	189
	6/13/2017	ND<1	189
	12/11/2017	ND<1	189
	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/10/2019	ND<1	189
	12/9/2019	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWA-2	6/11/2014	ND<1	189
	12/9/2014	ND<1	189
	6/24/2015	ND<1	189
	12/7/2015	ND<1	189
	6/13/2016	ND<1	189
	12/8/2016	ND<1	189
	6/15/2017	ND<1	189
	12/11/2017	ND<1	189
	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2268

Rank Mean = 189

Background Rank Sum = 4536

Background Rank Mean = 189

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	189
	12/8/2014	ND<1	189
	6/22/2015	ND<1	189
	12/7/2015	ND<1	189
	6/13/2016	ND<1	189
	12/8/2016	ND<1	189
	6/14/2017	ND<1	189
	12/11/2017	ND<1	189
	6/18/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189

Chloroethane

	12/10/2019	ND<1	189
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Rank Sum = 2268

Rank Mean = 189

GWC-11	6/9/2014	ND<1	189
	12/9/2014	ND<1	189
	6/22/2015	ND<1	189
	12/7/2015	ND<1	189
	6/14/2016	ND<1	189
	12/7/2016	ND<1	189
	6/14/2017	ND<1	189
	12/13/2017	ND<1	189
	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/12/2019	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWC-12	6/9/2014	ND<1	189
	12/9/2014	ND<1	189
	6/22/2015	ND<1	189
	12/7/2015	ND<1	189
	6/14/2016	ND<1	189
	12/7/2016	ND<1	189
	6/14/2017	ND<1	189
	12/13/2017	ND<1	189
	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWC-12A	6/9/2014	ND<1	189
	12/9/2014	ND<1	189
	6/22/2015	ND<1	189
	12/7/2015	ND<1	189
	6/14/2016	ND<1	189
	12/7/2016	ND<1	189
	6/14/2017	ND<1	189
	12/13/2017	ND<1	189
	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWC-13	6/9/2014	ND<1	189
	12/11/2014	ND<1	189
	6/22/2015	ND<1	189
	12/7/2015	ND<1	189
	6/15/2016	ND<1	189
	12/7/2016	ND<1	189
	6/14/2017	ND<1	189
	12/12/2017	ND<1	189

Chloroethane

	6/19/2018	ND<1	189
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	12/19/2018	ND<1	189
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	6/12/2019	ND<1	189
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	12/11/2019	ND<1	189
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Rank Sum = 2268

Rank Mean = 189

GWC-17	6/9/2014	ND<1	189
	12/10/2014	ND<1	189
	6/22/2015	ND<1	189
	12/8/2015	ND<1	189
	6/13/2016	ND<1	189
	6/14/2017	ND<1	189
	12/12/2017	ND<1	189
	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189

Rank Sum = 2079

Rank Mean = 189

GWC-18	6/9/2014	ND<1	189
	12/10/2014	ND<1	189
	6/22/2015	ND<1	189
	12/9/2015	ND<1	189
	6/13/2016	ND<1	189
	12/6/2016	ND<1	189
	6/14/2017	ND<1	189
	12/13/2017	ND<1	189
	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWA-1A	6/10/2014	ND<1	189
	12/8/2014	ND<1	189
	6/23/2015	ND<1	189
	12/8/2015	ND<1	189
	6/14/2016	ND<1	189
	12/7/2016	ND<1	189
	6/12/2017	ND<1	189
	12/13/2017	ND<1	189
	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/10/2019	ND<1	189
	12/9/2019	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWC-15	6/10/2014	ND<1	189
	12/10/2014	ND<1	189
	6/23/2015	ND<1	189
	12/9/2015	ND<1	189
	6/15/2016	ND<1	189
	12/8/2016	2.8	381

Chloroethane

6/14/2017	ND<1	189
12/13/2017	ND<1	189
6/19/2018	ND<1	189
12/19/2018	ND<1	189
6/11/2019	ND<1	189
12/10/2019	ND<1	189

Rank Sum = 2460
Rank Mean = 205

GWC-19R	6/10/2014	ND<1	189
	12/10/2014	ND<1	189
	6/22/2015	ND<1	189
	12/9/2015	ND<1	189
	6/15/2016	ND<1	189
	12/6/2016	ND<1	189
	6/14/2017	ND<1	189
	12/13/2017	ND<1	189
	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-22	6/10/2014	ND<1	189
	12/8/2014	ND<1	189
	6/22/2015	ND<1	189
	12/9/2015	ND<1	189
	6/15/2016	ND<1	189
	12/6/2016	ND<1	189
	6/14/2017	ND<1	189
	12/11/2017	ND<1	189
	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-4A	6/10/2014	ND<1	189
	12/11/2014	ND<1	189
	6/24/2015	ND<1	189
	12/9/2015	ND<1	189
	6/16/2016	ND<1	189
	12/7/2016	ND<1	189
	6/13/2017	ND<1	189
	12/12/2017	ND<1	189
	6/20/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-5	6/10/2014	ND<1	189
	12/8/2014	ND<1	189
	6/24/2015	ND<1	189

Chloroethane

12/7/2015	ND<1	189
6/14/2016	ND<1	189
12/8/2016	ND<1	189
6/12/2017	ND<1	189
12/12/2017	ND<1	189
6/21/2018	ND<1	189
12/18/2018	ND<1	189
6/12/2019	ND<1	189
12/10/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-6	6/10/2014	ND<1	189
	12/9/2014	ND<1	189
	6/22/2015	ND<1	189
	12/8/2015	ND<1	189
	6/14/2016	ND<1	189
	12/8/2016	ND<1	189
	6/12/2017	ND<1	189
	12/13/2017	ND<1	189
	6/21/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-7	6/10/2014	ND<1	189
	12/8/2014	ND<1	189
	6/24/2015	ND<1	189
	12/7/2015	ND<1	189
	6/15/2016	ND<1	189
	12/8/2016	ND<1	189
	6/12/2017	ND<1	189
	12/12/2017	ND<1	189
	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-10	6/11/2014	ND<1	189
	12/9/2014	ND<1	189
	6/22/2015	ND<1	189
	12/7/2015	ND<1	189
	6/14/2016	ND<1	189
	12/8/2016	ND<1	189
	6/15/2017	ND<1	189
	12/12/2017	ND<1	189
	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/10/2019	ND<1	189
	12/12/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

Chloroethane

GWC-10A	6/11/2014	ND<1	189
	12/9/2014	ND<1	189
	6/22/2015	ND<1	189
	12/7/2015	ND<1	189
	6/14/2016	ND<1	189
	12/8/2016	ND<1	189
	6/15/2017	ND<1	189
	12/12/2017	ND<1	189
	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/10/2019	ND<1	189
	12/12/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-14	6/11/2014	ND<1	189
	12/10/2014	ND<1	189
	6/24/2015	ND<1	189
	12/9/2015	ND<1	189
	6/15/2016	ND<1	189
	6/13/2017	ND<1	189
	6/20/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189

Rank Sum = 1701
Rank Mean = 189

GWC-14A	6/11/2014	7.1	392
	12/10/2014	6.3	388
	6/23/2015	8.2	394
	12/9/2015	6.7	391
	6/15/2016	12	396
	12/8/2016	6.4	390
	6/13/2017	5.8	387
	12/12/2017	7.7	393
	6/20/2018	8.5	395
	12/19/2018	5.4	386
	6/11/2019	4.4	384
	12/10/2019	3.6	383

Rank Sum = 4679
Rank Mean = 389.917

GWC-14R	6/11/2014	ND<1	189
	12/10/2014	ND<1	189
	6/23/2015	ND<1	189
	12/10/2015	ND<1	189
	6/15/2016	ND<1	189
	12/8/2016	ND<1	189
	6/13/2017	ND<1	189
	12/12/2017	ND<1	189
	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

Chloroethane

GWC-23A	6/11/2014	ND<1	189
	12/8/2014	ND<1	189
	6/22/2015	ND<1	189
	12/8/2015	ND<1	189
	6/15/2016	ND<1	189
	12/6/2016	ND<1	189
	6/14/2017	ND<1	189
	12/11/2017	ND<1	189
	6/18/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-24	6/11/2014	ND<1	189
	12/10/2014	ND<1	189
	6/22/2015	ND<1	189
	12/8/2015	ND<1	189
	6/13/2016	ND<1	189
	12/7/2016	ND<1	189
	6/14/2017	ND<1	189
	12/13/2017	ND<1	189
	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-3	6/11/2014	ND<1	189
	6/24/2015	ND<1	189
	12/9/2015	ND<1	189
	6/14/2016	ND<1	189
	12/8/2016	ND<1	189
	6/15/2017	ND<1	189
	6/21/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189

Rank Sum = 1890
Rank Mean = 189

GWC-3A	6/11/2014	ND<1	189
	12/11/2014	ND<1	189
	6/24/2015	ND<1	189
	12/9/2015	ND<1	189
	6/14/2016	ND<1	189
	12/8/2016	ND<1	189
	6/15/2017	ND<1	189
	12/12/2017	ND<1	189
	6/20/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

Chloroethane

GWC-8	6/11/2014	ND<1	189
	12/10/2014	ND<1	189
	6/23/2015	ND<1	189
	12/10/2015	ND<1	189
	6/15/2016	ND<1	189
	12/8/2016	ND<1	189
	12/12/2017	ND<1	189
	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2079
Rank Mean = 189

GWC-8A	6/11/2014	ND<1	189
	12/10/2014	ND<1	189
	6/24/2015	ND<1	189
	12/10/2015	ND<1	189
	6/15/2016	ND<1	189
	12/8/2016	ND<1	189
	6/13/2017	ND<1	189
	12/12/2017	ND<1	189
	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-8R	6/11/2014	2.7	379
	12/10/2014	2.7	380
	6/23/2015	ND<1	189
	12/10/2015	ND<1	189
	6/15/2016	ND<1	189
	12/8/2016	2.2	378
	6/13/2017	ND<1	189
	12/12/2017	ND<1	189
	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2838
Rank Mean = 236.5

GWC-9	6/11/2014	ND<1	189
	12/11/2014	ND<1	189
	6/22/2015	ND<1	189
	12/8/2015	ND<1	189
	6/14/2016	ND<1	189
	12/8/2016	ND<1	189
	6/15/2017	ND<1	189
	12/13/2017	ND<1	189
	6/20/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/12/2019	ND<1	189

Chloroethane

Rank Sum = 2268
Rank Mean = 189

GWC-16A	6/12/2014	4.5	385
	12/10/2014	ND<1	189
	6/24/2015	ND<1	189
	12/9/2015	6.3	389
	6/16/2016	ND<1	189
	12/7/2016	ND<1	189
	6/14/2017	3.3	382
	12/13/2017	ND<1	189
	6/21/2018	ND<1	189
	12/19/2018	ND<1	189
	6/13/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2857
Rank Mean = 238.083

GWC-2	6/12/2014	ND<1	189
	12/11/2014	ND<1	189
	6/24/2015	ND<1	189
	12/9/2015	ND<1	189
	6/14/2016	ND<1	189
	12/8/2016	ND<1	189
	6/15/2017	ND<1	189
	12/13/2017	ND<1	189
	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-23	6/12/2014	ND<1	189
	12/8/2014	ND<1	189
	6/22/2015	ND<1	189
	12/8/2015	ND<1	189
	6/15/2016	ND<1	189
	12/6/2016	ND<1	189
	6/14/2017	ND<1	189
	12/11/2017	ND<1	189
	6/18/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-4	6/12/2014	ND<1	189
	12/11/2014	ND<1	189
	6/24/2015	ND<1	189
	12/9/2015	ND<1	189
	6/16/2016	ND<1	189
	12/7/2016	ND<1	189
	6/20/2018	ND<1	189

Rank Sum = 1323
Rank Mean = 189

Calculation Results:

Kruskal-Wallis H Statistic = 38.7549

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 282.585

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

38.7549 < 46.1942 indicating no significant group difference at 5% significance level

282.585 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 189

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	189	0	94.1414
GWC-11	189	0	94.1414
GWC-12	189	0	94.1414
GWC-12A	189	0	94.1414
GWC-13	189	0	94.1414
GWC-17	189	0	96.9522
GWC-18	189	0	94.1414
GWA-1A	189	0	94.1414
GWC-15	205	16	94.1414
GWC-19R	189	0	94.1414
GWC-22	189	0	94.1414
GWC-4A	189	0	94.1414
GWC-5	189	0	94.1414
GWC-6	189	0	94.1414
GWC-7	189	0	94.1414
GWC-10	189	0	94.1414
GWC-10A	189	0	94.1414
GWC-14	189	0	104.077
GWC-14A	389.917	200.917	94.1414
GWC-14R	189	0	94.1414
GWC-23A	189	0	94.1414
GWC-24	189	0	94.1414
GWC-3	189	0	100.221
GWC-3A	189	0	94.1414
GWC-8	189	0	96.9522
GWC-8A	189	0	94.1414
GWC-8R	236.5	47.5	94.1414
GWC-9	189	0	94.1414
GWC-16A	238.083	49.0833	94.1414
GWC-2	189	0	94.1414
GWC-23	189	0	94.1414
GWC-4	189	0	114.38

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 189

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	189	0	125.055
GWC-11	189	0	125.055
GWC-12	189	0	125.055
GWC-12A	189	0	125.055
GWC-13	189	0	125.055

GWC-17	189	0	128.789
GWC-18	189	0	125.055
GWA-1A	189	0	125.055
GWC-15	205	16	125.055
GWC-19R	189	0	125.055
GWC-22	189	0	125.055
GWC-4A	189	0	125.055
GWC-5	189	0	125.055
GWC-6	189	0	125.055
GWC-7	189	0	125.055
GWC-10	189	0	125.055
GWC-10A	189	0	125.055
GWC-14	189	0	138.253
GWC-14A	389.917	200.917	125.055
GWC-14R	189	0	125.055
GWC-23A	189	0	125.055
GWC-24	189	0	125.055
GWC-3	189	0	133.131
GWC-3A	189	0	125.055
GWC-8	189	0	128.789
GWC-8A	189	0	125.055
GWC-8R	236.5	47.5	125.055
GWC-9	189	0	125.055
GWC-16A	238.083	49.0833	125.055
GWC-2	189	0	125.055
GWC-23	189	0	125.055
GWC-4	189	0	151.94

Kruskal-Wallis Non-Parametric Test

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	141
	12/8/2014	ND<1	141
	6/23/2015	ND<1	141
	12/8/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/13/2017	ND<1	141
	12/11/2017	ND<1	141
	6/19/2018	ND<1	141
	12/17/2018	ND<1	141
	6/10/2019	ND<1	141
	12/9/2019	ND<1	141

Rank Sum = 1692

Rank Mean = 141

GWA-2	6/11/2014	ND<1	141
	12/9/2014	ND<1	141
	6/24/2015	ND<1	141
	12/7/2015	ND<1	141
	6/13/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/11/2017	ND<1	141
	6/19/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/11/2019	ND<1	141

Rank Sum = 1692

Rank Mean = 141

Background Rank Sum = 3384

Background Rank Mean = 141

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	141
	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/13/2016	ND<1	141
	12/8/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/18/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141

12/10/2019 ND<1 141

Rank Sum = 1692

Rank Mean = 141

GWC-11	6/9/2014	ND<1	141
	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/19/2018	ND<1	141
	6/12/2019	ND<1	141
	12/12/2019	ND<1	141

Rank Sum = 1692

Rank Mean = 141

GWC-12	6/9/2014	ND<1	141
	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/19/2018	ND<1	141
	6/11/2019	ND<1	141
	12/9/2019	ND<1	141

Rank Sum = 1692

Rank Mean = 141

GWC-12A	6/9/2014	ND<1	141
	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/19/2018	ND<1	141
	6/11/2019	ND<1	141
	12/9/2019	ND<1	141

Rank Sum = 1692

Rank Mean = 141

GWC-13	6/9/2014	ND<1	141
	12/11/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/15/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/12/2017	ND<1	141

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6/19/2018	ND<1	141
12/19/2018	ND<1	141
6/12/2019	ND<1	141
12/11/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-17	6/9/2014	4.9	305
	12/10/2014	24	359
	6/22/2015	10	321
	12/8/2015	45	385
	6/13/2016	41	383
	6/14/2017	8.4	317
	12/12/2017	17	337
	6/19/2018	4.7	302
	12/19/2018	8.7	318
	6/12/2019	ND<1	141
	12/10/2019	15	332

Rank Sum = 3500
Rank Mean = 318.182

GWC-18	6/9/2014	9.9	320
	12/10/2014	16	334
	6/22/2015	15	333
	12/9/2015	14	329
	6/13/2016	3.6	296
	12/6/2016	16	335
	6/14/2017	16	336
	12/13/2017	14	330
	6/19/2018	7.7	314
	12/18/2018	12	326
	6/11/2019	14	331
	12/9/2019	30	370

Rank Sum = 3954
Rank Mean = 329.5

GWA-1A	6/10/2014	ND<1	141
	12/8/2014	ND<1	141
	6/23/2015	ND<1	141
	12/8/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/12/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/18/2018	ND<1	141
	6/10/2019	ND<1	141
	12/9/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-15	6/10/2014	ND<1	141
	12/10/2014	13	327
	6/23/2015	ND<1	141
	12/9/2015	17	338
	6/15/2016	ND<1	141
	12/8/2016	110	396

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6/14/2017	10	322
12/13/2017	11	323
6/19/2018	2	282
12/19/2018	2.9	290
6/11/2019	97	395
12/10/2019	51	387

Rank Sum = 3483
Rank Mean = 290.25

GWC-19R	6/10/2014	6.9	312
	12/10/2014	11	324
	6/22/2015	6.8	311
	12/9/2015	4.7	303
	6/15/2016	9.3	319
	12/6/2016	13	328
	6/14/2017	2.4	285
	12/13/2017	4.7	304
	6/19/2018	5.1	307
	12/18/2018	2.9	291
	6/11/2019	7.7	315
	12/9/2019	11	325

Rank Sum = 3724
Rank Mean = 310.333

GWC-22	6/10/2014	ND<1	141
	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/9/2015	ND<1	141
	6/15/2016	ND<1	141
	12/6/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/19/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-4A	6/10/2014	ND<1	141
	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/16/2016	ND<1	141
	12/7/2016	ND<1	141
	6/13/2017	ND<1	141
	12/12/2017	ND<1	141
	6/20/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/11/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-5	6/10/2014	ND<1	141
	12/8/2014	ND<1	141
	6/24/2015	ND<1	141

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12/7/2015	ND<1	141
6/14/2016	ND<1	141
12/8/2016	ND<1	141
6/12/2017	ND<1	141
12/12/2017	ND<1	141
6/21/2018	ND<1	141
12/18/2018	ND<1	141
6/12/2019	ND<1	141
12/10/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-6	6/10/2014	ND<1	141
	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/8/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/12/2017	ND<1	141
	12/13/2017	ND<1	141
	6/21/2018	ND<1	141
	12/19/2018	ND<1	141
	6/12/2019	ND<1	141
	12/10/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-7	6/10/2014	ND<1	141
	12/8/2014	ND<1	141
	6/24/2015	ND<1	141
	12/7/2015	ND<1	141
	6/15/2016	ND<1	141
	12/8/2016	ND<1	141
	6/12/2017	ND<1	141
	12/12/2017	ND<1	141
	6/19/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-10	6/11/2014	ND<1	141
	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/12/2017	ND<1	141
	6/19/2018	ND<1	141
	12/17/2018	ND<1	141
	6/10/2019	ND<1	141
	12/12/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

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GWC-10A	6/11/2014	ND<1	141
	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/12/2017	ND<1	141
	6/19/2018	ND<1	141
	12/17/2018	ND<1	141
	6/10/2019	ND<1	141
	12/12/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

GWC-14	6/11/2014	ND<1	141
	12/10/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/15/2016	ND<1	141
	6/13/2017	ND<1	141
	6/20/2018	ND<1	141
	6/11/2019	ND<1	141
	12/10/2019	ND<1	141

Rank Sum = 1269
Rank Mean = 141

GWC-14A	6/11/2014	25	363
	12/10/2014	30	371
	6/23/2015	32	374
	12/9/2015	38	381
	6/15/2016	42	384
	12/8/2016	33	377
	6/13/2017	64	390
	12/12/2017	62	389
	6/20/2018	71	392
	12/19/2018	53	388
	6/11/2019	46	386
	12/10/2019	65	391

Rank Sum = 4586
Rank Mean = 382.167

GWC-14R	6/11/2014	30	372
	12/10/2014	27	367
	6/23/2015	22	356
	12/10/2015	20	350
	6/15/2016	25	364
	12/8/2016	19	343
	6/13/2017	26	366
	12/12/2017	20	351
	6/20/2018	24	360
	12/19/2018	17	339
	6/12/2019	21	352
	12/10/2019	19	344

Rank Sum = 4264
Rank Mean = 355.333

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GWC-23A	6/11/2014	ND<1	141
	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/8/2015	ND<1	141
	6/15/2016	ND<1	141
	12/6/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/18/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141

Rank Sum = 1692

Rank Mean = 141

GWC-24	6/11/2014	4.6	301
	12/10/2014	7.9	316
	6/22/2015	ND<1	141
	12/8/2015	2.4	286
	6/13/2016	5.2	308
	12/7/2016	5.4	309
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	2.2	284
	12/19/2018	3.7	297
	6/11/2019	4.4	299
	12/9/2019	6.1	310

Rank Sum = 3133

Rank Mean = 261.083

GWC-3	6/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	6/21/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/10/2019	ND<1	141

Rank Sum = 1410

Rank Mean = 141

GWC-3A	6/11/2014	ND<1	141
	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/12/2017	ND<1	141
	6/20/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/10/2019	ND<1	141

Rank Sum = 1692

Rank Mean = 141

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GWC-8	6/11/2014	ND<1	141
	12/10/2014	ND<1	141
	6/23/2015	ND<1	141
	12/10/2015	ND<1	141
	6/15/2016	ND<1	141
	12/8/2016	3.1	293
	12/12/2017	7.6	313
	6/20/2018	2.6	288
	12/19/2018	4.3	298
	6/12/2019	ND<1	141
	12/11/2019	2.8	289

Rank Sum = 2327

Rank Mean = 211.545

GWC-8A	6/11/2014	18	341
	12/10/2014	33	378
	6/24/2015	19	345
	12/10/2015	29	369
	6/15/2016	25	365
	12/8/2016	32	375
	6/13/2017	27	368
	12/12/2017	37	380
	6/20/2018	32	376
	12/19/2018	31	373
	6/12/2019	22	357
	12/11/2019	33	379

Rank Sum = 4406

Rank Mean = 367.167

GWC-8R	6/11/2014	19	346
	12/10/2014	19	347
	6/23/2015	19	348
	12/10/2015	19	349
	6/15/2016	21	353
	12/8/2016	17	340
	6/13/2017	23	358
	12/12/2017	21	354
	6/20/2018	24	361
	12/19/2018	18	342
	6/12/2019	21	355
	12/11/2019	24	362

Rank Sum = 4215

Rank Mean = 351.25

GWC-9	6/11/2014	ND<1	141
	12/11/2014	ND<1	141
	6/22/2015	ND<1	141
	12/8/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/13/2017	ND<1	141
	6/20/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/12/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

Well	Date	Value	Rank
GWC-16A	6/12/2014	75	393
	12/10/2014	4.9	306
	6/24/2015	4.4	300
	12/9/2015	82	394
	6/16/2016	3.4	294
	12/7/2016	3.5	295
	6/14/2017	39	382
	12/13/2017	2.9	292
	6/21/2018	ND<1	141
	12/19/2018	2.5	287
	6/13/2019	ND<1	141
	12/11/2019	2.1	283

Rank Sum = 3508
Rank Mean = 292.333

Well	Date	Value	Rank
GWC-2	6/12/2014	ND<1	141
	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/13/2017	ND<1	141
	6/20/2018	ND<1	141
	12/19/2018	ND<1	141
	6/12/2019	ND<1	141
	12/10/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

Well	Date	Value	Rank
GWC-23	6/12/2014	ND<1	141
	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/8/2015	ND<1	141
	6/15/2016	ND<1	141
	12/6/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/18/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141

Rank Sum = 1692
Rank Mean = 141

Well	Date	Value	Rank
GWC-4	6/12/2014	ND<1	141
	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/16/2016	ND<1	141
	12/7/2016	ND<1	141
	6/20/2018	ND<1	141

Rank Sum = 987
Rank Mean = 141

Calculation Results:

Kruskal-Wallis H Statistic = 226.694
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 352.72
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
226.694 > 46.1942 indicating a significant group difference at 5% significance level
352.72 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 141

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	141	0	94.1414
GWC-11	141	0	94.1414
GWC-12	141	0	94.1414
GWC-12A	141	0	94.1414
GWC-13	141	0	94.1414
GWC-17	318.182	177.182	96.9522
GWC-18	329.5	188.5	94.1414
GWA-1A	141	0	94.1414
GWC-15	290.25	149.25	94.1414
GWC-19R	310.333	169.333	94.1414
GWC-22	141	0	94.1414
GWC-4A	141	0	94.1414
GWC-5	141	0	94.1414
GWC-6	141	0	94.1414
GWC-7	141	0	94.1414
GWC-10	141	0	94.1414
GWC-10A	141	0	94.1414
GWC-14	141	0	104.077
GWC-14A	382.167	241.167	94.1414
GWC-14R	355.333	214.333	94.1414
GWC-23A	141	0	94.1414
GWC-24	261.083	120.083	94.1414
GWC-3	141	0	100.221
GWC-3A	141	0	94.1414
GWC-8	211.545	70.5455	96.9522
GWC-8A	367.167	226.167	94.1414
GWC-8R	351.25	210.25	94.1414
GWC-9	141	0	94.1414
GWC-16A	292.333	151.333	94.1414
GWC-2	141	0	94.1414
GWC-23	141	0	94.1414
GWC-4	141	0	114.38

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024

Mean background rank is 141

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	141	0	125.055
GWC-11	141	0	125.055
GWC-12	141	0	125.055
GWC-12A	141	0	125.055
GWC-13	141	0	125.055

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GWC-17	318.182	177.182	128.789
GWC-18	329.5	188.5	125.055
GWA-1A	141	0	125.055
GWC-15	290.25	149.25	125.055
GWC-19R	310.333	169.333	125.055
GWC-22	141	0	125.055
GWC-4A	141	0	125.055
GWC-5	141	0	125.055
GWC-6	141	0	125.055
GWC-7	141	0	125.055
GWC-10	141	0	125.055
GWC-10A	141	0	125.055
GWC-14	141	0	138.253
GWC-14A	382.167	241.167	125.055
GWC-14R	355.333	214.333	125.055
GWC-23A	141	0	125.055
GWC-24	261.083	120.083	125.055
GWC-3	141	0	133.131
GWC-3A	141	0	125.055
GWC-8	211.545	70.5455	128.789
GWC-8A	367.167	226.167	125.055
GWC-8R	351.25	210.25	125.055
GWC-9	141	0	125.055
GWC-16A	292.333	151.333	125.055
GWC-2	141	0	125.055
GWC-23	141	0	125.055
GWC-4	141	0	151.94

Methylene Chloride

Kruskal-Wallis Non-Parametric Test

Parameter: Methylene Chloride

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5
	12/9/2019	ND<2.5	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-2	6/11/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370

Rank Mean = 197.5

Background Rank Sum = 4740

Background Rank Mean = 197.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/18/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Methylene Chloride

	12/10/2019	ND<2.5	197.5
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Rank Sum = 2370

Rank Mean = 197.5

GWC-11	6/9/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/12/2019	ND<2.5	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-12	6/9/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/9/2019	ND<2.5	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-12A	6/9/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/9/2019	ND<2.5	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-13	6/9/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5

Methylene Chloride

	6/19/2018	ND<2.5	197.5
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12/19/2018 ND<2.5 197.5

6/12/2019 ND<2.5 197.5

12/11/2019 ND<2.5 197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-17	6/9/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 2172.5

Rank Mean = 197.5

GWC-18	6/9/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/9/2019	ND<2.5	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-1A	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/12/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5
	12/9/2019	ND<2.5	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-15	6/10/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5

Methylene Chloride

6/14/2017	ND<2.5	197.5
12/13/2017	ND<2.5	197.5
6/19/2018	ND<2.5	197.5
12/19/2018	ND<2.5	197.5
6/11/2019	ND<2.5	197.5
12/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-19R	6/10/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/9/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-22	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4A	6/10/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/16/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-5	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5

Methylene Chloride

12/7/2015	ND<2.5	197.5
6/14/2016	ND<2.5	197.5
12/8/2016	ND<2.5	197.5
6/12/2017	ND<2.5	197.5
12/12/2017	ND<2.5	197.5
6/21/2018	ND<2.5	197.5
12/18/2018	ND<2.5	197.5
6/12/2019	ND<2.5	197.5
12/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-6	6/10/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/12/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/21/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-7	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/12/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-10	6/11/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5
	12/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

Methylene Chloride

GWC-10A	6/11/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5
	12/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 1777.5
Rank Mean = 197.5

GWC-14A	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14R	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

Methylene Chloride

GWC-23A	6/11/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/18/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-24	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/9/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-3	6/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	6/21/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 1975
Rank Mean = 197.5

GWC-3A	6/11/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

Methylene Chloride

GWC-8	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-8A	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8R	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-9	6/11/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/12/2019	ND<2.5	197.5

Methylene Chloride

Rank Sum = 2370
Rank Mean = 197.5

GWC-16A	6/12/2014	9.5	396
	12/10/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/16/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	6.3	395
	12/13/2017	ND<2.5	197.5
	6/21/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/13/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2766
Rank Mean = 230.5

GWC-2	6/12/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-23	6/12/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/18/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5
	12/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4	6/12/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/16/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5

Rank Sum = 1382.5
Rank Mean = 197.5

Methylene Chloride

Calculation Results:

Kruskal-Wallis H Statistic = 0.967254

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.162

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

0.967254 < 46.1942 indicating no significant group difference at 5% significance level

64.162 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWA-1A	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-4A	197.5	0	94.1414
GWC-5	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-14	197.5	0	104.077
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-24	197.5	0	94.1414
GWC-3	197.5	0	100.221
GWC-3A	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWC-16A	230.5	33	94.1414
GWC-2	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-4	197.5	0	114.38

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-13	197.5	0	125.055

Methylene Chloride

GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWA-1A	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-22	197.5	0	125.055
GWC-4A	197.5	0	125.055
GWC-5	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-14	197.5	0	138.253
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-23A	197.5	0	125.055
GWC-24	197.5	0	125.055
GWC-3	197.5	0	133.131
GWC-3A	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-9	197.5	0	125.055
GWC-16A	230.5	33	125.055
GWC-2	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-4	197.5	0	151.94

Tetrachloroethene

Kruskal-Wallis Non-Parametric Test

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	180
	12/8/2014	ND<1	180
	6/23/2015	ND<1	180
	12/8/2015	ND<1	180
	6/14/2016	ND<1	180
	12/7/2016	ND<1	180
	6/13/2017	ND<1	180
	12/11/2017	ND<1	180
	6/19/2018	ND<1	180
	12/17/2018	ND<1	180
	6/10/2019	ND<1	180
	12/9/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWA-2	6/11/2014	ND<1	180
	12/9/2014	ND<1	180
	6/24/2015	ND<1	180
	12/7/2015	ND<1	180
	6/13/2016	ND<1	180
	12/8/2016	ND<1	180
	6/15/2017	ND<1	180
	12/11/2017	ND<1	180
	6/19/2018	ND<1	180
	12/17/2018	ND<1	180
	6/11/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

Background Rank Sum = 4320

Background Rank Mean = 180

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	180
	12/8/2014	ND<1	180
	6/22/2015	ND<1	180
	12/7/2015	ND<1	180
	6/13/2016	ND<1	180
	12/8/2016	ND<1	180
	6/14/2017	ND<1	180
	12/11/2017	ND<1	180
	6/18/2018	ND<1	180
	12/17/2018	ND<1	180
	6/11/2019	ND<1	180

Tetrachloroethene

12/10/2019 ND<1 180

Rank Sum = 2160

Rank Mean = 180

GWC-11	6/9/2014	ND<1	180
	12/9/2014	ND<1	180
	6/22/2015	ND<1	180
	12/7/2015	ND<1	180
	6/14/2016	ND<1	180
	12/7/2016	ND<1	180
	6/14/2017	ND<1	180
	12/13/2017	ND<1	180
	6/19/2018	ND<1	180
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/12/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWC-12	6/9/2014	ND<1	180
	12/9/2014	ND<1	180
	6/22/2015	ND<1	180
	12/7/2015	ND<1	180
	6/14/2016	ND<1	180
	12/7/2016	ND<1	180
	6/14/2017	ND<1	180
	12/13/2017	ND<1	180
	6/19/2018	ND<1	180
	12/19/2018	ND<1	180
	6/11/2019	ND<1	180
	12/9/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWC-12A	6/9/2014	ND<1	180
	12/9/2014	ND<1	180
	6/22/2015	ND<1	180
	12/7/2015	ND<1	180
	6/14/2016	ND<1	180
	12/7/2016	ND<1	180
	6/14/2017	ND<1	180
	12/13/2017	ND<1	180
	6/19/2018	ND<1	180
	12/19/2018	ND<1	180
	6/11/2019	ND<1	180
	12/9/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWC-13	6/9/2014	ND<1	180
	12/11/2014	ND<1	180
	6/22/2015	ND<1	180
	12/7/2015	ND<1	180
	6/15/2016	ND<1	180
	12/7/2016	ND<1	180
	6/14/2017	ND<1	180
	12/12/2017	ND<1	180

Tetrachloroethene

6/19/2018	ND<1	180
12/19/2018	ND<1	180
6/12/2019	ND<1	180
12/11/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWC-17	6/9/2014	ND<1	180
	12/10/2014	ND<1	180
	6/22/2015	ND<1	180
	12/8/2015	ND<1	180
	6/13/2016	ND<1	180
	6/14/2017	ND<1	180
	12/12/2017	ND<1	180
	6/19/2018	ND<1	180
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 1980

Rank Mean = 180

GWC-18	6/9/2014	14	391
	12/10/2014	14	392
	6/22/2015	10	389
	12/9/2015	9	386
	6/13/2016	4	372
	12/6/2016	6.6	381
	6/14/2017	4.1	373
	12/13/2017	6.5	380
	6/19/2018	4.6	375
	12/18/2018	7	382
	6/11/2019	3.9	371
	12/9/2019	7.4	384

Rank Sum = 4576

Rank Mean = 381.333

GWA-1A	6/10/2014	ND<1	180
	12/8/2014	ND<1	180
	6/23/2015	ND<1	180
	12/8/2015	ND<1	180
	6/14/2016	ND<1	180
	12/7/2016	ND<1	180
	6/12/2017	ND<1	180
	12/13/2017	ND<1	180
	6/19/2018	ND<1	180
	12/18/2018	ND<1	180
	6/10/2019	ND<1	180
	12/9/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWC-15	6/10/2014	17	394
	12/10/2014	8.5	385
	6/23/2015	11	390
	12/9/2015	6.1	378
	6/15/2016	9	387
	12/8/2016	16	393

Tetrachloroethene

6/14/2017	7.3	383
12/13/2017	2.7	366
6/19/2018	5	376
12/19/2018	9.7	388
6/11/2019	50	396
12/10/2019	31	395

Rank Sum = 4631

Rank Mean = 385.917

GWC-19R	6/10/2014	ND<1	180
	12/10/2014	ND<1	180
	6/22/2015	ND<1	180
	12/9/2015	ND<1	180
	6/15/2016	ND<1	180
	12/6/2016	ND<1	180
	6/14/2017	ND<1	180
	12/13/2017	ND<1	180
	6/19/2018	ND<1	180
	12/18/2018	2	360
	6/11/2019	ND<1	180
	12/9/2019	ND<1	180

Rank Sum = 2340

Rank Mean = 195

GWC-22	6/10/2014	ND<1	180
	12/8/2014	ND<1	180
	6/22/2015	ND<1	180
	12/9/2015	ND<1	180
	6/15/2016	ND<1	180
	12/6/2016	ND<1	180
	6/14/2017	ND<1	180
	12/11/2017	ND<1	180
	6/19/2018	ND<1	180
	12/18/2018	ND<1	180
	6/12/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWC-4A	6/10/2014	ND<1	180
	12/11/2014	ND<1	180
	6/24/2015	ND<1	180
	12/9/2015	ND<1	180
	6/16/2016	ND<1	180
	12/7/2016	ND<1	180
	6/13/2017	ND<1	180
	12/12/2017	ND<1	180
	6/20/2018	ND<1	180
	12/17/2018	ND<1	180
	6/11/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2160

Rank Mean = 180

GWC-5	6/10/2014	ND<1	180
	12/8/2014	ND<1	180
	6/24/2015	ND<1	180

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12/7/2015	ND<1	180
6/14/2016	ND<1	180
12/8/2016	ND<1	180
6/12/2017	ND<1	180
12/12/2017	ND<1	180
6/21/2018	ND<1	180
12/18/2018	ND<1	180
6/12/2019	ND<1	180
12/10/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-6	6/10/2014	ND<1	180
	12/9/2014	ND<1	180
	6/22/2015	ND<1	180
	12/8/2015	ND<1	180
	6/14/2016	ND<1	180
	12/8/2016	ND<1	180
	6/12/2017	ND<1	180
	12/13/2017	ND<1	180
	6/21/2018	ND<1	180
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-7	6/10/2014	ND<1	180
	12/8/2014	ND<1	180
	6/24/2015	ND<1	180
	12/7/2015	ND<1	180
	6/15/2016	ND<1	180
	12/8/2016	ND<1	180
	6/12/2017	ND<1	180
	12/12/2017	ND<1	180
	6/19/2018	ND<1	180
	12/18/2018	ND<1	180
	6/12/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-10	6/11/2014	ND<1	180
	12/9/2014	ND<1	180
	6/22/2015	ND<1	180
	12/7/2015	ND<1	180
	6/14/2016	ND<1	180
	12/8/2016	ND<1	180
	6/15/2017	ND<1	180
	12/12/2017	ND<1	180
	6/19/2018	ND<1	180
	12/17/2018	ND<1	180
	6/10/2019	ND<1	180
	12/12/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

Tetrachloroethene

GWC-10A	6/11/2014	ND<1	180
	12/9/2014	ND<1	180
	6/22/2015	ND<1	180
	12/7/2015	ND<1	180
	6/14/2016	ND<1	180
	12/8/2016	ND<1	180
	6/15/2017	ND<1	180
	12/12/2017	ND<1	180
	6/19/2018	ND<1	180
	12/17/2018	ND<1	180
	6/10/2019	ND<1	180
	12/12/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-14	6/11/2014	ND<1	180
	12/10/2014	ND<1	180
	6/24/2015	ND<1	180
	12/9/2015	ND<1	180
	6/15/2016	ND<1	180
	6/13/2017	ND<1	180
	6/20/2018	ND<1	180
	6/11/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 1620
Rank Mean = 180

GWC-14A	6/11/2014	ND<1	180
	12/10/2014	ND<1	180
	6/23/2015	ND<1	180
	12/9/2015	ND<1	180
	6/15/2016	ND<1	180
	12/8/2016	ND<1	180
	6/13/2017	ND<1	180
	12/12/2017	ND<1	180
	6/20/2018	ND<1	180
	12/19/2018	ND<1	180
	6/11/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-14R	6/11/2014	5.9	377
	12/10/2014	4.4	374
	6/23/2015	3.5	369
	12/10/2015	2.8	367
	6/15/2016	2.2	364
	12/8/2016	2.5	365
	6/13/2017	3.2	368
	12/12/2017	2	361
	6/20/2018	2	362
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 3847
Rank Mean = 320.583

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GWC-23A	6/11/2014	ND<1	180
	12/8/2014	ND<1	180
	6/22/2015	ND<1	180
	12/8/2015	ND<1	180
	6/15/2016	ND<1	180
	12/6/2016	ND<1	180
	6/14/2017	ND<1	180
	12/11/2017	ND<1	180
	6/18/2018	ND<1	180
	12/18/2018	ND<1	180
	6/12/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-24	6/11/2014	ND<1	180
	12/10/2014	ND<1	180
	6/22/2015	ND<1	180
	12/8/2015	ND<1	180
	6/13/2016	ND<1	180
	12/7/2016	ND<1	180
	6/14/2017	ND<1	180
	12/13/2017	ND<1	180
	6/19/2018	ND<1	180
	12/19/2018	ND<1	180
	6/11/2019	ND<1	180
	12/9/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-3	6/11/2014	ND<1	180
	6/24/2015	ND<1	180
	12/9/2015	ND<1	180
	6/14/2016	ND<1	180
	12/8/2016	ND<1	180
	6/15/2017	ND<1	180
	6/21/2018	ND<1	180
	12/17/2018	ND<1	180
	6/11/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 1800
Rank Mean = 180

GWC-3A	6/11/2014	ND<1	180
	12/11/2014	ND<1	180
	6/24/2015	ND<1	180
	12/9/2015	ND<1	180
	6/14/2016	ND<1	180
	12/8/2016	ND<1	180
	6/15/2017	ND<1	180
	12/12/2017	ND<1	180
	6/20/2018	ND<1	180
	12/17/2018	ND<1	180
	6/11/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

Tetrachloroethene

GWC-8	6/11/2014	ND<1	180
	12/10/2014	ND<1	180
	6/23/2015	ND<1	180
	12/10/2015	ND<1	180
	6/15/2016	ND<1	180
	12/8/2016	ND<1	180
	12/12/2017	ND<1	180
	6/20/2018	ND<1	180
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 1980
Rank Mean = 180

GWC-8A	6/11/2014	ND<1	180
	12/10/2014	ND<1	180
	6/24/2015	ND<1	180
	12/10/2015	ND<1	180
	6/15/2016	ND<1	180
	12/8/2016	ND<1	180
	6/13/2017	ND<1	180
	12/12/2017	ND<1	180
	6/20/2018	ND<1	180
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-8R	6/11/2014	ND<1	180
	12/10/2014	ND<1	180
	6/23/2015	ND<1	180
	12/10/2015	ND<1	180
	6/15/2016	ND<1	180
	12/8/2016	ND<1	180
	6/13/2017	ND<1	180
	12/12/2017	ND<1	180
	6/20/2018	2	363
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2343
Rank Mean = 195.25

GWC-9	6/11/2014	ND<1	180
	12/11/2014	ND<1	180
	6/22/2015	ND<1	180
	12/8/2015	ND<1	180
	6/14/2016	ND<1	180
	12/8/2016	ND<1	180
	6/15/2017	ND<1	180
	12/13/2017	ND<1	180
	6/20/2018	ND<1	180
	12/18/2018	ND<1	180
	6/12/2019	ND<1	180
	12/12/2019	ND<1	180

Tetrachloroethene

Rank Sum = 2160
Rank Mean = 180

GWC-16A	6/12/2014	ND<1	180
	12/10/2014	ND<1	180
	6/24/2015	ND<1	180
	12/9/2015	3.7	370
	6/16/2016	ND<1	180
	12/7/2016	ND<1	180
	6/14/2017	6.3	379
	12/13/2017	ND<1	180
	6/21/2018	ND<1	180
	12/19/2018	ND<1	180
	6/13/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2549
Rank Mean = 212.417

GWC-2	6/12/2014	ND<1	180
	12/11/2014	ND<1	180
	6/24/2015	ND<1	180
	12/9/2015	ND<1	180
	6/14/2016	ND<1	180
	12/8/2016	ND<1	180
	6/15/2017	ND<1	180
	12/13/2017	ND<1	180
	6/20/2018	ND<1	180
	12/19/2018	ND<1	180
	6/12/2019	ND<1	180
	12/10/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-23	6/12/2014	ND<1	180
	12/8/2014	ND<1	180
	6/22/2015	ND<1	180
	12/8/2015	ND<1	180
	6/15/2016	ND<1	180
	12/6/2016	ND<1	180
	6/14/2017	ND<1	180
	12/11/2017	ND<1	180
	6/18/2018	ND<1	180
	12/18/2018	ND<1	180
	6/12/2019	ND<1	180
	12/11/2019	ND<1	180

Rank Sum = 2160
Rank Mean = 180

GWC-4	6/12/2014	ND<1	180
	12/11/2014	ND<1	180
	6/24/2015	ND<1	180
	12/9/2015	ND<1	180
	6/16/2016	ND<1	180
	12/7/2016	ND<1	180
	6/20/2018	ND<1	180

Rank Sum = 1260
Rank Mean = 180

Tetrachloroethene

Calculation Results:

Kruskal-Wallis H Statistic = 85.1061
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 333.841
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
85.1061 > 46.1942 indicating a significant group difference at 5% significance level
333.841 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 180

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	180	0	94.1414
GWC-11	180	0	94.1414
GWC-12	180	0	94.1414
GWC-12A	180	0	94.1414
GWC-13	180	0	94.1414
GWC-17	180	0	96.9522
GWC-18	381.333	201.333	94.1414
GWA-1A	180	0	94.1414
GWC-15	385.917	205.917	94.1414
GWC-19R	195	15	94.1414
GWC-22	180	0	94.1414
GWC-4A	180	0	94.1414
GWC-5	180	0	94.1414
GWC-6	180	0	94.1414
GWC-7	180	0	94.1414
GWC-10	180	0	94.1414
GWC-10A	180	0	94.1414
GWC-14	180	0	104.077
GWC-14A	180	0	94.1414
GWC-14R	320.583	140.583	94.1414
GWC-23A	180	0	94.1414
GWC-24	180	0	94.1414
GWC-3	180	0	100.221
GWC-3A	180	0	94.1414
GWC-8	180	0	96.9522
GWC-8A	180	0	94.1414
GWC-8R	195.25	15.25	94.1414
GWC-9	180	0	94.1414
GWC-16A	212.417	32.4167	94.1414
GWC-2	180	0	94.1414
GWC-23	180	0	94.1414
GWC-4	180	0	114.38

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024

Mean background rank is 180

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	180	0	125.055
GWC-11	180	0	125.055
GWC-12	180	0	125.055
GWC-12A	180	0	125.055
GWC-13	180	0	125.055

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GWC-17	180	0	128.789
GWC-18	381.333	201.333	125.055
GWA-1A	180	0	125.055
GWC-15	385.917	205.917	125.055
GWC-19R	195	15	125.055
GWC-22	180	0	125.055
GWC-4A	180	0	125.055
GWC-5	180	0	125.055
GWC-6	180	0	125.055
GWC-7	180	0	125.055
GWC-10	180	0	125.055
GWC-10A	180	0	125.055
GWC-14	180	0	138.253
GWC-14A	180	0	125.055
GWC-14R	320.583	140.583	125.055
GWC-23A	180	0	125.055
GWC-24	180	0	125.055
GWC-3	180	0	133.131
GWC-3A	180	0	125.055
GWC-8	180	0	128.789
GWC-8A	180	0	125.055
GWC-8R	195.25	15.25	125.055
GWC-9	180	0	125.055
GWC-16A	212.417	32.4167	125.055
GWC-2	180	0	125.055
GWC-23	180	0	125.055
GWC-4	180	0	151.94

Toluene

Kruskal-Wallis Non-Parametric Test

Parameter: Toluene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
6/10/2019	ND<1	197.5	
12/9/2019	ND<1	197.5	

Rank Sum = 2370

Rank Mean = 197.5

GWA-2	6/11/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
6/11/2019	ND<1	197.5	
12/11/2019	ND<1	197.5	

Rank Sum = 2370

Rank Mean = 197.5

Background Rank Sum = 4740

Background Rank Mean = 197.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
6/11/2019	ND<1	197.5	

Toluene

	12/10/2019	ND<1	197.5
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Rank Sum = 2370

Rank Mean = 197.5

GWC-11	6/9/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/12/2019	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-12	6/9/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-12A	6/9/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-13	6/9/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/12/2017	ND<1	197.5

Toluene

	6/19/2018	ND<1	197.5
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	12/19/2018	ND<1	197.5
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	6/12/2019	ND<1	197.5
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	12/11/2019	ND<1	197.5
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Rank Sum = 2370

Rank Mean = 197.5

GWC-17	6/9/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 2172.5

Rank Mean = 197.5

GWC-18	6/9/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-1A	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
	12/9/2019	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-15	6/10/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5

Toluene

6/14/2017	ND<1	197.5
12/13/2017	ND<1	197.5
6/19/2018	ND<1	197.5
12/19/2018	ND<1	197.5
6/11/2019	ND<1	197.5
12/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-19R	6/10/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-22	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4A	6/10/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-5	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/24/2015	ND<1	197.5

Toluene

12/7/2015	ND<1	197.5
6/14/2016	ND<1	197.5
12/8/2016	ND<1	197.5
6/12/2017	ND<1	197.5
12/12/2017	ND<1	197.5
6/21/2018	ND<1	197.5
12/18/2018	ND<1	197.5
6/12/2019	ND<1	197.5
12/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-6	6/10/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-7	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-10	6/11/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
	12/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

Toluene

GWC-10A	6/11/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
	12/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 1777.5
Rank Mean = 197.5

GWC-14A	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14R	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

Toluene

GWC-23A	6/11/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-24	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-3	6/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 1975
Rank Mean = 197.5

GWC-3A	6/11/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

Toluene

GWC-8	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-8A	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8R	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-9	6/11/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/12/2019	ND<1	197.5

Toluene

Rank Sum = 2370
Rank Mean = 197.5

GWC-16A	6/12/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	4.3	396
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	3.2	395
	12/13/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/13/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2766
Rank Mean = 230.5

GWC-2	6/12/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-23	6/12/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4	6/12/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/20/2018	ND<1	197.5

Rank Sum = 1382.5
Rank Mean = 197.5

Calculation Results:

Kruskal-Wallis H Statistic = 0.967254
 Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.162
 95% Confidence comparison value is 46.1942 at 32 degrees of freedom
 0.967254 < 46.1942 indicating no significant group difference at 5% significance level
64.162 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWA-1A	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-4A	197.5	0	94.1414
GWC-5	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-14	197.5	0	104.077
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-24	197.5	0	94.1414
GWC-3	197.5	0	100.221
GWC-3A	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWC-16A	230.5	33	94.1414
GWC-2	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-4	197.5	0	114.38

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-13	197.5	0	125.055

GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWA-1A	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-22	197.5	0	125.055
GWC-4A	197.5	0	125.055
GWC-5	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-14	197.5	0	138.253
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-23A	197.5	0	125.055
GWC-24	197.5	0	125.055
GWC-3	197.5	0	133.131
GWC-3A	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-9	197.5	0	125.055
GWC-16A	230.5	33	125.055
GWC-2	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-4	197.5	0	151.94

Total Barium

Kruskal-Wallis Non-Parametric Test

Parameter: Total Barium
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/10/2014	28	186
	12/9/2014	24	155
	6/24/2015	22	136
	12/9/2015	22	137
	6/15/2016	29	194
	12/8/2016	26	172
	6/14/2017	28	187
	12/12/2017	27	179
	6/20/2018	32	206
	12/18/2018	28	188
	6/11/2019	28	189
	12/10/2019	20.9	127

Rank Sum = 2056
 Rank Mean = 171.333

GWA-2	6/12/2014	20	117
	12/10/2014	24	156
	6/25/2015	23	147
	12/8/2015	26	173
	6/14/2016	36	233
	12/9/2016	ND<10	58.5
	6/16/2017	26	174
	12/12/2017	25	166
	6/20/2018	23	148
	12/18/2018	32	207
	6/12/2019	23	149

Rank Sum = 1978.5
 Rank Mean = 164.875

Background Rank Sum = 4034.5
 Background Rank Mean = 168.104

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/10/2014	31	202
	12/8/2014	38	240
	6/23/2015	38	241
	12/8/2015	34	218
	6/14/2016	35	225
	12/7/2016	33	212
	6/12/2017	36	234
	12/13/2017	33	213
	6/20/2018	30	199
	12/18/2018	32	208
	6/10/2019	41	258

Total Barium

12/9/2019 30 200
 Rank Sum = 2650
 Rank Mean = 220.833

GWA-3	6/10/2014	ND<10	58.5
	12/9/2014	ND<10	58.5
	6/23/2015	ND<10	58.5
	12/8/2015	ND<10	58.5
	6/14/2016	ND<10	58.5
	12/9/2016	ND<10	58.5
	6/15/2017	ND<10	58.5
	12/12/2017	ND<10	58.5
	6/19/2018	ND<10	58.5
	12/18/2018	ND<10	58.5
	6/12/2019	ND<10	58.5
	12/11/2019	22.9	146

Rank Sum = 789.5
 Rank Mean = 65.7917

GWC-11	6/10/2014	28	190
	12/10/2014	25	167
	6/23/2015	28	191
	12/8/2015	27	180
	6/15/2016	24	157
	12/8/2016	22	138
	6/15/2017	24	158
	12/14/2017	42	264
	6/20/2018	21	128
	12/20/2018	ND<10	58.5
	6/13/2019	40	251

Rank Sum = 2114.5
 Rank Mean = 176.208

GWC-12	6/10/2014	34	219
	12/10/2014	21	129
	6/23/2015	26	175
	12/8/2015	ND<10	58.5
	6/15/2016	20	118
	12/8/2016	ND<10	58.5
	6/15/2017	ND<10	58.5
	12/14/2017	ND<10	58.5
	6/20/2018	ND<10	58.5
	12/20/2018	34	220
	6/12/2019	20	119
	12/10/2019	ND<10	58.5

Rank Sum = 1331
 Rank Mean = 110.917

GWC-12A	6/10/2014	ND<10	58.5
	12/10/2014	ND<10	58.5
	6/23/2015	ND<10	58.5
	12/8/2015	ND<10	58.5
	6/15/2016	ND<10	58.5
	12/8/2016	ND<10	58.5
	6/15/2017	ND<10	58.5

Total Barium

6/20/2018	ND<10	58.5
12/20/2018	ND<10	58.5
6/12/2019	ND<10	58.5
12/10/2019	ND<10	58.5

Rank Sum = 702
Rank Mean = 58.5

GWC-13	6/10/2014	ND<10	58.5
	12/12/2014	31	203
	6/23/2015	37	236
	12/8/2015	34	221
	6/16/2016	ND<10	58.5
	12/8/2016	ND<10	58.5
	6/15/2017	ND<10	58.5
	12/13/2017	ND<10	58.5
	6/20/2018	36	235
	12/20/2018	ND<10	58.5
	6/13/2019	ND<10	58.5
	12/12/2019	32.7	211

Rank Sum = 1515.5
Rank Mean = 126.292

GWC-17	6/10/2014	37	237
	12/11/2014	65	307
	6/23/2015	43	267
	12/8/2015	41	259
	6/14/2016	38	242
	6/15/2017	45	271
	12/13/2017	35	226
	6/20/2018	34	222
	12/20/2018	69	311
	6/13/2019	43	268
	12/11/2019	37.1	239

Rank Sum = 2849
Rank Mean = 259

GWC-18	6/10/2014	170	340
	12/11/2014	160	338
	6/23/2015	220	356
	12/10/2015	140	335
	6/14/2016	250	360
	12/7/2016	180	344
	6/15/2017	180	345
	12/14/2017	150	337
	6/20/2018	280	362
	12/19/2018	140	336
	6/12/2019	230	359
	12/10/2019	181	348

Rank Sum = 4160
Rank Mean = 346.667

GWC-14	6/11/2014	29	195
	12/11/2014	52	285
	6/24/2015	58	296
	12/10/2015	62	304
	6/15/2016	26	176
	6/21/2018	35	227

Total Barium

6/12/2019	35	228
12/11/2019	41.2	263

Rank Sum = 1974
Rank Mean = 246.75

GWC-14A	6/11/2014	190	349
	12/10/2014	220	357
	6/24/2015	210	353
	12/10/2015	200	351
	6/16/2016	200	352
	12/8/2016	220	358
	6/13/2017	210	354
	12/13/2017	180	346
	6/21/2018	190	350
	12/19/2018	180	347
	6/12/2019	170	341
	12/11/2019	170	342

Rank Sum = 4200
Rank Mean = 350

GWC-15	6/11/2014	23	150
	12/11/2014	63	305
	6/24/2015	87	318
	12/9/2015	94	323
	6/16/2016	61	303
	12/8/2016	60	301
	6/14/2017	120	331
	12/14/2017	99	328
	6/20/2018	98	327
	12/19/2018	58	297
	6/11/2019	60	302
	12/10/2019	42.3	266

Rank Sum = 3551
Rank Mean = 295.917

GWC-19R	6/11/2014	91	321
	12/11/2014	120	332
	6/23/2015	94	324
	12/10/2015	100	329
	6/16/2016	93	322
	12/7/2016	130	334
	6/15/2017	97	325
	12/14/2017	120	333
	6/20/2018	81	316
	12/19/2018	160	339
	6/12/2019	97	326
	12/10/2019	89.2	320

Rank Sum = 3921
Rank Mean = 326.75

GWC-22	6/11/2014	40	252
	12/9/2014	23	151
	6/23/2015	24	159
	12/10/2015	24	160
	6/16/2016	25	168
	12/7/2016	23	152
	6/15/2017	28	192

Total Barium

12/12/2017	ND<10	58.5
6/20/2018	24	161
12/19/2018	21	130
6/13/2019	21	131
12/12/2019	21.5	135

Rank Sum = 1849.5
Rank Mean = 154.125

GWC-23A	6/11/2014	ND<10	58.5
	12/8/2014	ND<10	58.5
	6/23/2015	ND<10	58.5
	12/9/2015	ND<10	58.5
	6/15/2016	20	120
	12/7/2016	ND<10	58.5
	6/15/2017	ND<10	58.5
	12/12/2017	ND<10	58.5
	6/19/2018	ND<10	58.5
	12/19/2018	ND<10	58.5
	6/13/2019	ND<10	58.5
	12/12/2019	ND<10	58.5

Rank Sum = 763.5
Rank Mean = 63.625

GWC-4A	6/11/2014	64	306
	12/12/2014	45	272
	6/25/2015	22	139
	12/10/2015	39	247
	6/17/2016	ND<10	58.5
	12/8/2016	59	299
	6/14/2017	33	214
	12/13/2017	81	317
	6/21/2018	22	140
	12/18/2018	25	169
	6/12/2019	74	313
	12/12/2019	ND<10	58.5

Rank Sum = 2533
Rank Mean = 211.083

GWC-5	6/11/2014	ND<10	58.5
	12/9/2014	ND<10	58.5
	6/25/2015	ND<10	58.5
	12/8/2015	ND<10	58.5
	6/15/2016	ND<10	58.5
	12/9/2016	ND<10	58.5
	6/13/2017	ND<10	58.5
	12/13/2017	ND<10	58.5
	6/21/2018	ND<10	58.5
	12/19/2018	ND<10	58.5
	6/13/2019	ND<10	58.5
	12/11/2019	ND<10	58.5

Rank Sum = 702
Rank Mean = 58.5

GWC-6	6/11/2014	ND<10	58.5
	12/10/2014	ND<10	58.5
	6/23/2015	ND<10	58.5
	12/9/2015	ND<10	58.5

Total Barium

6/15/2016	ND<10	58.5
12/9/2016	ND<10	58.5
6/13/2017	ND<10	58.5
12/14/2017	ND<10	58.5
6/21/2018	37	238
12/20/2018	ND<10	58.5
6/13/2019	ND<10	58.5
12/11/2019	ND<10	58.5

Rank Sum = 881.5
Rank Mean = 73.4583

GWC-7	6/11/2014	52	286
	12/9/2014	55	292
	6/25/2015	54	290
	12/8/2015	47	277
	6/16/2016	46	273
	12/9/2016	46	274
	6/13/2017	52	287
	12/13/2017	46	275
	6/20/2018	49	280
	12/19/2018	51	283
	6/13/2019	48	278
	12/12/2019	49.9	281

Rank Sum = 3376
Rank Mean = 281.333

GWC-10	6/12/2014	ND<10	58.5
	12/10/2014	ND<10	58.5
	6/23/2015	22	141
	12/8/2015	ND<10	58.5
	6/15/2016	21	132
	12/9/2016	20	121
	6/16/2017	20	122
	12/13/2017	48	279
	6/20/2018	ND<10	58.5
	12/18/2018	ND<10	58.5
	6/11/2019	22	142
	12/13/2019	ND<10	58.5

Rank Sum = 1288
Rank Mean = 107.333

GWC-10A	6/12/2014	20	123
	12/10/2014	27	181
	6/23/2015	27	182
	12/8/2015	27	183
	6/15/2016	29	196
	12/9/2016	31	204
	6/16/2017	31	205
	12/13/2017	32	209
	6/20/2018	34	223
	12/18/2018	35	229
	6/11/2019	33	215
	12/13/2019	35.2	231

Rank Sum = 2381
Rank Mean = 198.417

GWC-23	6/12/2014	ND<10	58.5
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Total Barium

12/9/2014	ND<10	58.5
6/23/2015	ND<10	58.5
12/9/2015	ND<10	58.5
6/16/2016	ND<10	58.5
12/7/2016	ND<10	58.5
6/15/2017	ND<10	58.5
12/12/2017	ND<10	58.5
6/19/2018	ND<10	58.5
12/19/2018	ND<10	58.5
6/13/2019	ND<10	58.5
12/12/2019	ND<10	58.5

Rank Sum = 702
Rank Mean = 58.5

GWC-24	6/12/2014	ND<10	58.5
	6/23/2015	ND<10	58.5
	6/14/2016	27	184
	6/15/2017	ND<10	58.5
	6/20/2018	ND<10	58.5
	6/12/2019	20	124
	12/10/2019	27.4	185

Rank Sum = 727
Rank Mean = 103.857

GWC-3	6/12/2014	21	133
	6/25/2015	ND<10	58.5
	12/10/2015	ND<10	58.5
	6/15/2016	ND<10	58.5
	6/21/2018	ND<10	58.5
	12/18/2018	ND<10	58.5
	6/12/2019	ND<10	58.5
	12/11/2019	ND<10	58.5

Rank Sum = 542.5
Rank Mean = 67.8125

GWC-3A	6/12/2014	33	216
	12/12/2014	40	253
	6/25/2015	39	248
	12/10/2015	40	254
	6/15/2016	38	243
	12/9/2016	43	269
	6/16/2017	40	255
	12/13/2017	38	244
	6/21/2018	39	249
	12/18/2018	38	245
	6/12/2019	46	276
	12/11/2019	40.7	257

Rank Sum = 3009
Rank Mean = 250.75

GWC-8	6/12/2014	38	246
	12/11/2014	25	170
	6/24/2015	20	125
	12/10/2015	ND<10	58.5
	6/16/2016	22	143
	12/9/2016	22	144
	12/13/2017	23	153

Total Barium

6/21/2018	ND<10	58.5
6/13/2019	30	201
12/12/2019	28.6	193

Rank Sum = 1492
Rank Mean = 149.2

GWC-8A	6/12/2014	41	260
	12/11/2014	43	270
	6/24/2015	50	282
	12/10/2015	41	261
	6/16/2016	40	256
	12/9/2016	55	293
	6/14/2017	66	308
	12/13/2017	42	265
	6/21/2018	51	284
	12/20/2018	55	294
	6/13/2019	33	217
	12/12/2019	56	295

Rank Sum = 3285
Rank Mean = 273.75

GWC-9	6/12/2014	89	319
	12/12/2014	59	300
	6/23/2015	110	330
	12/9/2015	52	288
	6/15/2016	80	314
	12/9/2016	67	309
	6/16/2017	58	298
	12/14/2017	54	291
	6/21/2018	73	312
	12/19/2018	53	289
	6/13/2019	80	315
	12/13/2019	67.9	310

Rank Sum = 3675
Rank Mean = 306.25

GWC-16A	6/13/2014	210	355
	12/11/2014	32	210
	6/24/2015	41	262
	12/10/2015	260	361
	6/17/2016	29	197
	12/8/2016	35	230
	6/15/2017	170	343
	12/14/2017	29	198
	6/21/2018	34	224
	12/20/2018	24	162
	6/13/2019	26	177
	12/12/2019	26.7	178

Rank Sum = 2897
Rank Mean = 241.417

GWC-2	6/13/2014	ND<10	58.5
	12/12/2014	22	145
	6/25/2015	ND<10	58.5
	12/10/2015	ND<10	58.5
	6/15/2016	ND<10	58.5
	12/9/2016	ND<10	58.5

Total Barium

6/16/2017	ND<10	58.5
12/14/2017	ND<10	58.5
6/21/2018	ND<10	58.5
12/20/2018	ND<10	58.5
6/13/2019	ND<10	58.5

Rank Sum = 730
Rank Mean = 66.3636

GWC-4	6/13/2014	21	134
	12/12/2014	24	163
	6/25/2015	24	164
	12/10/2015	23	154
	6/17/2016	24	165
	12/8/2016	25	171
	6/21/2018	20	126

Rank Sum = 1077
Rank Mean = 153.857

Calculation Results:

Kruskal-Wallis H Statistic = 293.629
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 303.618
95% Confidence comparison value is 43.773 at 30 degrees of freedom
293.629 > 43.773 indicating a significant group difference at 5% significance level
303.618 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 168.104

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	220.833	52.7292	86.0688
GWA-3	65.7917	-102.312	86.0688
GWC-11	176.208	8.10417	86.0688
GWC-12	110.917	-57.1875	86.0688
GWC-12A	58.5	-109.604	86.0688
GWC-13	126.292	-41.8125	86.0688
GWC-17	259	90.8958	88.6385
GWC-18	346.667	178.563	86.0688
GWC-14	246.75	78.6458	99.3836
GWC-14A	350	181.896	86.0688
GWC-15	295.917	127.813	86.0688
GWC-19R	326.75	158.646	86.0688
GWC-22	154.125	-13.9792	86.0688
GWC-23A	63.625	-104.479	86.0688
GWC-4A	211.083	42.9792	86.0688
GWC-5	58.5	-109.604	86.0688
GWC-6	73.4583	-94.6458	86.0688
GWC-7	281.333	113.229	86.0688
GWC-10	107.333	-60.7708	86.0688
GWC-10A	198.417	30.3125	86.0688
GWC-23	58.5	-109.604	86.0688
GWC-24	103.857	-64.247	104.572
GWC-3	67.8125	-100.292	99.3836
GWC-3A	250.75	82.6458	86.0688
GWC-8	149.2	-18.9042	91.6272
GWC-8A	273.75	105.646	86.0688

Total Barium

GWC-9	306.25	138.146	86.0688
GWC-16A	241.417	73.3125	86.0688
GWC-2	66.3636	-101.741	88.6385
GWC-4	153.857	-14.247	104.572

Individual Well Comparisons at Groupwise 5% Significance Level (0.166667% Significance Level per comparison)

0.166667% Z score is 3.09024
Mean background rank is 168.104

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	220.833	52.7292	114.331
GWA-3	65.7917	-102.312	114.331
GWC-11	176.208	8.10417	114.331
GWC-12	110.917	-57.1875	114.331
GWC-12A	58.5	-109.604	114.331
GWC-13	126.292	-41.8125	114.331
GWC-17	259	90.8958	117.745
GWC-18	346.667	178.563	114.331
GWC-14	246.75	78.6458	132.018
GWC-14A	350	181.896	114.331
GWC-15	295.917	127.813	114.331
GWC-19R	326.75	158.646	114.331
GWC-22	154.125	-13.9792	114.331
GWC-23A	63.625	-104.479	114.331
GWC-4A	211.083	42.9792	114.331
GWC-5	58.5	-109.604	114.331
GWC-6	73.4583	-94.6458	114.331
GWC-7	281.333	113.229	114.331
GWC-10	107.333	-60.7708	114.331
GWC-10A	198.417	30.3125	114.331
GWC-23	58.5	-109.604	114.331
GWC-24	103.857	-64.247	138.911
GWC-3	67.8125	-100.292	132.018
GWC-3A	250.75	82.6458	114.331
GWC-8	149.2	-18.9042	121.715
GWC-8A	273.75	105.646	114.331
GWC-9	306.25	138.146	114.331
GWC-16A	241.417	73.3125	114.331
GWC-2	66.3636	-101.741	117.745
GWC-4	153.857	-14.247	138.911

Total Chromium

Kruskal-Wallis Non-Parametric Test

Parameter: Total Chromium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/10/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/14/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/11/2019	ND<5	178.5
	12/10/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWA-2	6/12/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

Background Rank Sum = 4284
Background Rank Mean = 178.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/10/2014	ND<5	178.5
	12/8/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/12/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/10/2019	ND<5	178.5

Total Chromium

12/9/2019 ND<5 178.5
Rank Sum = 2142
Rank Mean = 178.5

GWA-3	6/10/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/19/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/11/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-11	6/10/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-12	6/10/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/10/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-12A	6/10/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5

Total Chromium

6/20/2018	ND<5	178.5
12/20/2018	ND<5	178.5
6/12/2019	ND<5	178.5
12/10/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-13	6/10/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-17	6/10/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/11/2019	ND<5	178.5

Rank Sum = 1963.5
Rank Mean = 178.5

GWC-18	6/10/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/10/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-14	6/11/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	6/21/2018	ND<5	178.5

Total Chromium

6/12/2019	ND<5	178.5
12/11/2019	ND<5	178.5

Rank Sum = 1428
Rank Mean = 178.5

GWC-14A	6/11/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/13/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/11/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-15	6/11/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/14/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/11/2019	ND<5	178.5
	12/10/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-19R	6/11/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/10/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-22	6/11/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5

Total Chromium

12/12/2017	ND<5	178.5
6/20/2018	ND<5	178.5
12/19/2018	ND<5	178.5
6/13/2019	ND<5	178.5
12/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-23A	6/11/2014	ND<5	178.5
	12/8/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/19/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-4A	6/11/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	11	357
	6/17/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/14/2017	ND<5	178.5
	12/13/2017	19	361
	6/21/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	26	362
	12/12/2019	ND<5	178.5

Rank Sum = 2686.5
Rank Mean = 223.875

GWC-5	6/11/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/13/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/11/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-6	6/11/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/9/2015	ND<5	178.5

Total Chromium

6/15/2016	12	359
12/9/2016	ND<5	178.5
6/13/2017	ND<5	178.5
12/14/2017	ND<5	178.5
6/21/2018	ND<5	178.5
12/20/2018	ND<5	178.5
6/13/2019	ND<5	178.5
12/11/2019	ND<5	178.5

Rank Sum = 2322.5
Rank Mean = 193.542

GWC-7	6/11/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/13/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-10	6/12/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/11/2019	ND<5	178.5
	12/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-10A	6/12/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/11/2019	ND<5	178.5
	12/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-23	6/12/2014	ND<5	178.5
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Total Chromium

12/9/2014	ND<5	178.5
6/23/2015	ND<5	178.5
12/9/2015	ND<5	178.5
6/16/2016	ND<5	178.5
12/7/2016	11	358
6/15/2017	ND<5	178.5
12/12/2017	ND<5	178.5
6/19/2018	ND<5	178.5
12/19/2018	ND<5	178.5
6/13/2019	ND<5	178.5
12/12/2019	ND<5	178.5

Rank Sum = 2321.5
Rank Mean = 193.458

GWC-24	6/12/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/10/2019	ND<5	178.5

Rank Sum = 1249.5
Rank Mean = 178.5

GWC-3	6/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/11/2019	ND<5	178.5

Rank Sum = 1428
Rank Mean = 178.5

GWC-3A	6/12/2014	12	360
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
	12/11/2019	ND<5	178.5

Rank Sum = 2323.5
Rank Mean = 193.625

GWC-8	6/12/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	12/13/2017	ND<5	178.5

Total Chromium

6/21/2018	ND<5	178.5
6/13/2019	ND<5	178.5
12/12/2019	ND<5	178.5

Rank Sum = 1785
Rank Mean = 178.5

GWC-8A	6/12/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/14/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-9	6/12/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-16A	6/13/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/17/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5
	12/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-2	6/13/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5

Total Chromium

6/16/2017	ND<5	178.5
12/14/2017	ND<5	178.5
6/21/2018	ND<5	178.5
12/20/2018	ND<5	178.5
6/13/2019	ND<5	178.5

Rank Sum = 1963.5
Rank Mean = 178.5

GWC-4	6/13/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/17/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/21/2018	ND<5	178.5

Rank Sum = 1249.5
Rank Mean = 178.5

Calculation Results:

Kruskal-Wallis H Statistic = 2.70252
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 55.2612
95% Confidence comparison value is 43.773 at 30 degrees of freedom
2.70252 < 43.773 indicating no significant group difference at 5% significance level
55.2612 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 178.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	178.5	0	86.0688
GWA-3	178.5	0	86.0688
GWC-11	178.5	0	86.0688
GWC-12	178.5	0	86.0688
GWC-12A	178.5	0	86.0688
GWC-13	178.5	0	86.0688
GWC-17	178.5	0	88.6385
GWC-18	178.5	0	86.0688
GWC-14	178.5	0	99.3836
GWC-14A	178.5	0	86.0688
GWC-15	178.5	0	86.0688
GWC-19R	178.5	0	86.0688
GWC-22	178.5	0	86.0688
GWC-23A	178.5	0	86.0688
GWC-4A	223.875	45.375	86.0688
GWC-5	178.5	0	86.0688
GWC-6	193.542	15.0417	86.0688
GWC-7	178.5	0	86.0688
GWC-10	178.5	0	86.0688
GWC-10A	178.5	0	86.0688
GWC-23	193.458	14.9583	86.0688
GWC-24	178.5	0	104.572
GWC-3	178.5	0	99.3836
GWC-3A	193.625	15.125	86.0688
GWC-8	178.5	0	91.6272
GWC-8A	178.5	0	86.0688

Total Chromium

GWC-9	178.5	0	86.0688
GWC-16A	178.5	0	86.0688
GWC-2	178.5	0	88.6385
GWC-4	178.5	0	104.572

Individual Well Comparisons at Groupwise 5% Significance Level (0.166667% Significance Level per comparison)

0.166667% Z score is 3.09024
Mean background rank is 178.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	178.5	0	114.331
GWA-3	178.5	0	114.331
GWC-11	178.5	0	114.331
GWC-12	178.5	0	114.331
GWC-12A	178.5	0	114.331
GWC-13	178.5	0	114.331
GWC-17	178.5	0	117.745
GWC-18	178.5	0	114.331
GWC-14	178.5	0	132.018
GWC-14A	178.5	0	114.331
GWC-15	178.5	0	114.331
GWC-19R	178.5	0	114.331
GWC-22	178.5	0	114.331
GWC-23A	178.5	0	114.331
GWC-4A	223.875	45.375	114.331
GWC-5	178.5	0	114.331
GWC-6	193.542	15.0417	114.331
GWC-7	178.5	0	114.331
GWC-10	178.5	0	114.331
GWC-10A	178.5	0	114.331
GWC-23	193.458	14.9583	114.331
GWC-24	178.5	0	138.911
GWC-3	178.5	0	132.018
GWC-3A	193.625	15.125	114.331
GWC-8	178.5	0	121.715
GWC-8A	178.5	0	114.331
GWC-9	178.5	0	114.331
GWC-16A	178.5	0	114.331
GWC-2	178.5	0	117.745
GWC-4	178.5	0	138.911

Total Cobalt

Kruskal-Wallis Non-Parametric Test

Parameter: Total Cobalt
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/10/2014	ND<20	167.5
	12/9/2014	ND<20	167.5
	6/24/2015	ND<20	167.5
	12/9/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/14/2017	ND<20	167.5
	12/12/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/11/2019	ND<20	167.5
	12/10/2019	ND<20	167.5

Rank Sum = 2010
 Rank Mean = 167.5

GWA-2	6/12/2014	ND<20	167.5
	12/10/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/14/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	6/16/2017	ND<20	167.5
	12/12/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/12/2019	ND<20	167.5

Rank Sum = 2010
 Rank Mean = 167.5

Background Rank Sum = 4020
 Background Rank Mean = 167.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/10/2014	ND<20	167.5
	12/8/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/14/2016	ND<20	167.5
	12/7/2016	ND<20	167.5
	6/12/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/10/2019	ND<20	167.5

Total Cobalt

12/9/2019 ND<20 167.5
 Rank Sum = 2010
 Rank Mean = 167.5

GWA-3	6/10/2014	ND<20	167.5
	12/9/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/14/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/12/2017	ND<20	167.5
	6/19/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/11/2019	ND<20	167.5

Rank Sum = 2010
 Rank Mean = 167.5

GWC-11	6/10/2014	ND<20	167.5
	12/10/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/14/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/20/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/13/2019	ND<20	167.5

Rank Sum = 2010
 Rank Mean = 167.5

GWC-12	6/10/2014	ND<20	167.5
	12/10/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/14/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/20/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/10/2019	ND<20	167.5

Rank Sum = 2010
 Rank Mean = 167.5

GWC-12A	6/10/2014	ND<20	167.5
	12/10/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/14/2017	ND<20	167.5

Total Cobalt

6/20/2018	ND<20	167.5
12/20/2018	ND<20	167.5
6/12/2019	ND<20	167.5
12/10/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-13	6/10/2014	ND<20	167.5
	12/12/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/16/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/20/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/12/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-17	6/10/2014	ND<20	167.5
	12/11/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/14/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/20/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/11/2019	ND<20	167.5

Rank Sum = 1842.5
Rank Mean = 167.5

GWC-18	6/10/2014	ND<20	167.5
	12/11/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/14/2016	ND<20	167.5
	12/7/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/14/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/19/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/10/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-14	6/11/2014	82	347
	12/11/2014	48	339
	6/24/2015	54	343
	12/10/2015	49	340
	6/15/2016	88	348
	6/21/2018	42	335

Total Cobalt

6/12/2019	57	344
12/11/2019	50.3	342

Rank Sum = 2738
Rank Mean = 342.25

GWC-14A	6/11/2014	690	362
	12/10/2014	580	360
	6/24/2015	620	361
	12/10/2015	520	359
	6/16/2016	490	358
	12/8/2016	380	357
	6/13/2017	370	356
	12/13/2017	280	352
	6/21/2018	310	354
	12/19/2018	290	353
	6/12/2019	330	355
	12/11/2019	228	351

Rank Sum = 4278
Rank Mean = 356.5

GWC-15	6/11/2014	ND<20	167.5
	12/11/2014	ND<20	167.5
	6/24/2015	ND<20	167.5
	12/9/2015	ND<20	167.5
	6/16/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/14/2017	ND<20	167.5
	12/14/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/19/2018	ND<20	167.5
	6/11/2019	ND<20	167.5
	12/10/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-19R	6/11/2014	ND<20	167.5
	12/11/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/16/2016	47	338
	12/7/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/14/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/19/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/10/2019	ND<20	167.5

Rank Sum = 2180.5
Rank Mean = 181.708

GWC-22	6/11/2014	60	345
	12/9/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/16/2016	ND<20	167.5
	12/7/2016	ND<20	167.5
	6/15/2017	ND<20	167.5

Total Cobalt

12/12/2017	ND<20	167.5
6/20/2018	ND<20	167.5
12/19/2018	ND<20	167.5
6/13/2019	ND<20	167.5
12/12/2019	ND<20	167.5

Rank Sum = 2187.5
Rank Mean = 182.292

GWC-23A	6/11/2014	ND<20	167.5
	12/8/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/9/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/7/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	12/12/2017	ND<20	167.5
	6/19/2018	ND<20	167.5
	12/19/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/12/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-4A	6/11/2014	ND<20	167.5
	12/12/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/17/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/14/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/21/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/12/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-5	6/11/2014	ND<20	167.5
	12/9/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	6/13/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/21/2018	ND<20	167.5
	12/19/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/11/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-6	6/11/2014	ND<20	167.5
	12/10/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/9/2015	ND<20	167.5

Total Cobalt

6/15/2016	ND<20	167.5
12/9/2016	ND<20	167.5
6/13/2017	ND<20	167.5
12/14/2017	ND<20	167.5
6/21/2018	ND<20	167.5
12/20/2018	ND<20	167.5
6/13/2019	ND<20	167.5
12/11/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-7	6/11/2014	ND<20	167.5
	12/9/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/16/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	6/13/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/19/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/12/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-10	6/12/2014	ND<20	167.5
	12/10/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	6/16/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/11/2019	ND<20	167.5
	12/13/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-10A	6/12/2014	ND<20	167.5
	12/10/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/8/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	6/16/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/11/2019	ND<20	167.5
	12/13/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-23	6/12/2014	ND<20	167.5
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Total Cobalt

12/9/2014	ND<20	167.5
6/23/2015	ND<20	167.5
12/9/2015	ND<20	167.5
6/16/2016	ND<20	167.5
12/7/2016	ND<20	167.5
6/15/2017	ND<20	167.5
12/12/2017	ND<20	167.5
6/19/2018	ND<20	167.5
12/19/2018	ND<20	167.5
6/13/2019	ND<20	167.5
12/12/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-24	6/12/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	6/14/2016	ND<20	167.5
	6/15/2017	ND<20	167.5
	6/20/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/10/2019	ND<20	167.5

Rank Sum = 1172.5
Rank Mean = 167.5

GWC-3	6/12/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	6/21/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/11/2019	ND<20	167.5

Rank Sum = 1340
Rank Mean = 167.5

GWC-3A	6/12/2014	ND<20	167.5
	12/12/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	6/16/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/21/2018	ND<20	167.5
	12/18/2018	ND<20	167.5
	6/12/2019	ND<20	167.5
	12/11/2019	ND<20	167.5

Rank Sum = 2010
Rank Mean = 167.5

GWC-8	6/12/2014	ND<20	167.5
	12/11/2014	ND<20	167.5
	6/24/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/16/2016	ND<20	167.5
	12/9/2016	ND<20	167.5
	12/13/2017	ND<20	167.5

Total Cobalt

6/21/2018	ND<20	167.5
6/13/2019	ND<20	167.5
12/12/2019	ND<20	167.5

Rank Sum = 1675
Rank Mean = 167.5

GWC-8A	6/12/2014	ND<20	167.5
	12/11/2014	ND<20	167.5
	6/24/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/16/2016	ND<20	167.5
	12/9/2016	44	337
	6/14/2017	ND<20	167.5
	12/13/2017	ND<20	167.5
	6/21/2018	ND<20	167.5
	12/20/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/12/2019	ND<20	167.5

Rank Sum = 2179.5
Rank Mean = 181.625

GWC-9	6/12/2014	120	350
	12/12/2014	ND<20	167.5
	6/23/2015	ND<20	167.5
	12/9/2015	ND<20	167.5
	6/15/2016	50	341
	12/9/2016	ND<20	167.5
	6/16/2017	ND<20	167.5
	12/14/2017	ND<20	167.5
	6/21/2018	ND<20	167.5
	12/19/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/13/2019	ND<20	167.5

Rank Sum = 2366
Rank Mean = 197.167

GWC-16A	6/13/2014	43	336
	12/11/2014	ND<20	167.5
	6/24/2015	ND<20	167.5
	12/10/2015	100	349
	6/17/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/15/2017	81	346
	12/14/2017	ND<20	167.5
	6/21/2018	ND<20	167.5
	12/20/2018	ND<20	167.5
	6/13/2019	ND<20	167.5
	12/12/2019	ND<20	167.5

Rank Sum = 2538.5
Rank Mean = 211.542

GWC-2	6/13/2014	ND<20	167.5
	12/12/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/15/2016	ND<20	167.5
	12/9/2016	ND<20	167.5

Total Cobalt

6/16/2017	ND<20	167.5
12/14/2017	ND<20	167.5
6/21/2018	ND<20	167.5
12/20/2018	ND<20	167.5
6/13/2019	ND<20	167.5

Rank Sum = 1842.5
Rank Mean = 167.5

GWC-4	6/13/2014	ND<20	167.5
	12/12/2014	ND<20	167.5
	6/25/2015	ND<20	167.5
	12/10/2015	ND<20	167.5
	6/17/2016	ND<20	167.5
	12/8/2016	ND<20	167.5
	6/21/2018	ND<20	167.5

Rank Sum = 1172.5
Rank Mean = 167.5

Calculation Results:

Kruskal-Wallis H Statistic = 58.7444
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 273.79
95% Confidence comparison value is 43.773 at 30 degrees of freedom
58.7444 > 43.773 indicating a significant group difference at 5% significance level
273.79 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 167.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	167.5	0	86.0688
GWA-3	167.5	0	86.0688
GWC-11	167.5	0	86.0688
GWC-12	167.5	0	86.0688
GWC-12A	167.5	0	86.0688
GWC-13	167.5	0	86.0688
GWC-17	167.5	0	88.6385
GWC-18	167.5	0	86.0688
GWC-14	342.25	174.75	99.3836
GWC-14A	356.5	189	86.0688
GWC-15	167.5	0	86.0688
GWC-19R	181.708	14.2083	86.0688
GWC-22	182.292	14.7917	86.0688
GWC-23A	167.5	0	86.0688
GWC-4A	167.5	0	86.0688
GWC-5	167.5	0	86.0688
GWC-6	167.5	0	86.0688
GWC-7	167.5	0	86.0688
GWC-10	167.5	0	86.0688
GWC-10A	167.5	0	86.0688
GWC-23	167.5	0	86.0688
GWC-24	167.5	0	104.572
GWC-3	167.5	0	99.3836
GWC-3A	167.5	0	86.0688
GWC-8	167.5	0	91.6272
GWC-8A	181.625	14.125	86.0688

Total Cobalt

GWC-9	197.167	29.6667	86.0688
GWC-16A	211.542	44.0417	86.0688
GWC-2	167.5	0	88.6385
GWC-4	167.5	0	104.572

Individual Well Comparisons at Groupwise 5% Significance Level (0.166667% Significance Level per comparison)

0.166667% Z score is 3.09024
Mean background rank is 167.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	167.5	0	114.331
GWA-3	167.5	0	114.331
GWC-11	167.5	0	114.331
GWC-12	167.5	0	114.331
GWC-12A	167.5	0	114.331
GWC-13	167.5	0	114.331
GWC-17	167.5	0	117.745
GWC-18	167.5	0	114.331
GWC-14	342.25	174.75	132.018
GWC-14A	356.5	189	114.331
GWC-15	167.5	0	114.331
GWC-19R	181.708	14.2083	114.331
GWC-22	182.292	14.7917	114.331
GWC-23A	167.5	0	114.331
GWC-4A	167.5	0	114.331
GWC-5	167.5	0	114.331
GWC-6	167.5	0	114.331
GWC-7	167.5	0	114.331
GWC-10	167.5	0	114.331
GWC-10A	167.5	0	114.331
GWC-23	167.5	0	114.331
GWC-24	167.5	0	138.911
GWC-3	167.5	0	132.018
GWC-3A	167.5	0	114.331
GWC-8	167.5	0	121.715
GWC-8A	181.625	14.125	114.331
GWC-9	197.167	29.6667	114.331
GWC-16A	211.542	44.0417	114.331
GWC-2	167.5	0	117.745
GWC-4	167.5	0	138.911

Total Copper

Kruskal-Wallis Non-Parametric Test

Parameter: Total Copper
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/10/2014	ND<10	178.5
	12/9/2014	ND<10	178.5
	6/24/2015	ND<10	178.5
	12/9/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/14/2017	ND<10	178.5
	12/12/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/11/2019	ND<10	178.5
	12/10/2019	ND<10	178.5

Rank Sum = 2142
 Rank Mean = 178.5

GWA-2	6/12/2014	ND<10	178.5
	12/10/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/14/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/16/2017	ND<10	178.5
	12/12/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/12/2019	ND<10	178.5

Rank Sum = 2142
 Rank Mean = 178.5

Background Rank Sum = 4284
 Background Rank Mean = 178.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/10/2014	ND<10	178.5
	12/8/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/14/2016	ND<10	178.5
	12/7/2016	ND<10	178.5
	6/12/2017	ND<10	178.5
	12/13/2017	32	361
	6/20/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/10/2019	ND<10	178.5

Total Copper

12/9/2019 ND<10 178.5
 Rank Sum = 2324.5
 Rank Mean = 193.708

GWA-3	6/10/2014	ND<10	178.5
	12/9/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/14/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/12/2017	ND<10	178.5
	6/19/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/11/2019	ND<10	178.5

Rank Sum = 2142
 Rank Mean = 178.5

GWC-11	6/10/2014	ND<10	178.5
	12/10/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/14/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/20/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/13/2019	ND<10	178.5

Rank Sum = 2142
 Rank Mean = 178.5

GWC-12	6/10/2014	ND<10	178.5
	12/10/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/14/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/20/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/10/2019	ND<10	178.5

Rank Sum = 2142
 Rank Mean = 178.5

GWC-12A	6/10/2014	ND<10	178.5
	12/10/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/14/2017	ND<10	178.5

Total Copper

6/20/2018	ND<10	178.5
12/20/2018	ND<10	178.5
6/12/2019	ND<10	178.5
12/10/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-13	6/10/2014	ND<10	178.5
	12/12/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/16/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/20/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/12/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-17	6/10/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/14/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/20/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/11/2019	ND<10	178.5

Rank Sum = 1963.5
Rank Mean = 178.5

GWC-18	6/10/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/10/2015	22	357
	6/14/2016	ND<10	178.5
	12/7/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/14/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/10/2019	ND<10	178.5

Rank Sum = 2320.5
Rank Mean = 193.375

GWC-14	6/11/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/24/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	6/21/2018	ND<10	178.5

Total Copper

6/12/2019	ND<10	178.5
12/11/2019	ND<10	178.5

Rank Sum = 1428
Rank Mean = 178.5

GWC-14A	6/11/2014	ND<10	178.5
	12/10/2014	ND<10	178.5
	6/24/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/16/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/13/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/11/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-15	6/11/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/24/2015	ND<10	178.5
	12/9/2015	ND<10	178.5
	6/16/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/14/2017	ND<10	178.5
	12/14/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/11/2019	ND<10	178.5
	12/10/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-19R	6/11/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/10/2015	26	359
	6/16/2016	ND<10	178.5
	12/7/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/14/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/10/2019	ND<10	178.5

Rank Sum = 2322.5
Rank Mean = 193.542

GWC-22	6/11/2014	ND<10	178.5
	12/9/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/16/2016	ND<10	178.5
	12/7/2016	ND<10	178.5
	6/15/2017	ND<10	178.5

Total Copper

12/12/2017	ND<10	178.5
6/20/2018	ND<10	178.5
12/19/2018	ND<10	178.5
6/13/2019	ND<10	178.5
12/12/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-23A	6/11/2014	ND<10	178.5
	12/8/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/9/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/7/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/12/2017	ND<10	178.5
	6/19/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/12/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-4A	6/11/2014	ND<10	178.5
	12/12/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/17/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/14/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/12/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-5	6/11/2014	ND<10	178.5
	12/9/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/13/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/11/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-6	6/11/2014	ND<10	178.5
	12/10/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/9/2015	ND<10	178.5

Total Copper

6/15/2016	ND<10	178.5
12/9/2016	ND<10	178.5
6/13/2017	ND<10	178.5
12/14/2017	ND<10	178.5
6/21/2018	23	358
12/20/2018	ND<10	178.5
6/13/2019	ND<10	178.5
12/11/2019	ND<10	178.5

Rank Sum = 2321.5
Rank Mean = 193.458

GWC-7	6/11/2014	ND<10	178.5
	12/9/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/16/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/13/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/12/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-10	6/12/2014	ND<10	178.5
	12/10/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/16/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/11/2019	ND<10	178.5
	12/13/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-10A	6/12/2014	ND<10	178.5
	12/10/2014	36	362
	6/23/2015	ND<10	178.5
	12/8/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/16/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/11/2019	ND<10	178.5
	12/13/2019	ND<10	178.5

Rank Sum = 2325.5
Rank Mean = 193.792

GWC-23	6/12/2014	ND<10	178.5
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Total Copper

12/9/2014	ND<10	178.5
6/23/2015	ND<10	178.5
12/9/2015	ND<10	178.5
6/16/2016	ND<10	178.5
12/7/2016	ND<10	178.5
6/15/2017	ND<10	178.5
12/12/2017	28	360
6/19/2018	ND<10	178.5
12/19/2018	ND<10	178.5
6/13/2019	ND<10	178.5
12/12/2019	ND<10	178.5

Rank Sum = 2323.5
Rank Mean = 193.625

GWC-24	6/12/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	6/14/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	6/20/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/10/2019	ND<10	178.5

Rank Sum = 1249.5
Rank Mean = 178.5

GWC-3	6/12/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/11/2019	ND<10	178.5

Rank Sum = 1428
Rank Mean = 178.5

GWC-3A	6/12/2014	ND<10	178.5
	12/12/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/16/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/18/2018	ND<10	178.5
	6/12/2019	ND<10	178.5
	12/11/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-8	6/12/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/24/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/16/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	12/13/2017	ND<10	178.5

Total Copper

6/21/2018	ND<10	178.5
6/13/2019	ND<10	178.5
12/12/2019	ND<10	178.5

Rank Sum = 1785
Rank Mean = 178.5

GWC-8A	6/12/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/24/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/16/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/14/2017	ND<10	178.5
	12/13/2017	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/20/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/12/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-9	6/12/2014	ND<10	178.5
	12/12/2014	ND<10	178.5
	6/23/2015	ND<10	178.5
	12/9/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/9/2016	ND<10	178.5
	6/16/2017	ND<10	178.5
	12/14/2017	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/19/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/13/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-16A	6/13/2014	ND<10	178.5
	12/11/2014	ND<10	178.5
	6/24/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/17/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/15/2017	ND<10	178.5
	12/14/2017	ND<10	178.5
	6/21/2018	ND<10	178.5
	12/20/2018	ND<10	178.5
	6/13/2019	ND<10	178.5
	12/12/2019	ND<10	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-2	6/13/2014	ND<10	178.5
	12/12/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/15/2016	ND<10	178.5
	12/9/2016	ND<10	178.5

Total Copper

6/16/2017	ND<10	178.5
12/14/2017	ND<10	178.5
6/21/2018	ND<10	178.5
12/20/2018	ND<10	178.5
6/13/2019	ND<10	178.5

Rank Sum = 1963.5
Rank Mean = 178.5

GWC-4	6/13/2014	ND<10	178.5
	12/12/2014	ND<10	178.5
	6/25/2015	ND<10	178.5
	12/10/2015	ND<10	178.5
	6/17/2016	ND<10	178.5
	12/8/2016	ND<10	178.5
	6/21/2018	ND<10	178.5

Rank Sum = 1249.5
Rank Mean = 178.5

Calculation Results:

Kruskal-Wallis H Statistic = 1.19848
 Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 24.5066
 95% Confidence comparison value is 43.773 at 30 degrees of freedom
 1.19848 < 43.773 indicating no significant group difference at 5% significance level
 24.5066 < 43.773 indicating no significant group difference at 5% significance level when adjusted for ties

Total Nickel

Kruskal-Wallis Non-Parametric Test

Parameter: Total Nickel
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/10/2014	ND<10	173
	12/9/2014	ND<10	173
	6/24/2015	ND<10	173
	12/9/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/14/2017	ND<10	173
	12/12/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/11/2019	ND<10	173
	12/10/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWA-2	6/12/2014	ND<10	173
	12/10/2014	ND<10	173
	6/25/2015	ND<10	173
	12/8/2015	ND<10	173
	6/14/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/12/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/12/2019	ND<10	173
	12/12/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

Background Rank Sum = 4152
Background Rank Mean = 173

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/10/2014	ND<10	173
	12/8/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/14/2016	ND<10	173
	12/7/2016	ND<10	173
	6/12/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/10/2019	ND<10	173

Total Nickel

	12/9/2019	ND<10	173
Rank Sum = 2076			
Rank Mean = 173			
<hr/>			
GWA-3	6/10/2014	ND<10	173
	12/9/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/14/2016	ND<10	173
	12/9/2016	ND<10	173
	6/15/2017	ND<10	173
	12/12/2017	ND<10	173
	6/19/2018	ND<10	173
	12/18/2018	ND<10	173
	6/12/2019	ND<10	173
	12/11/2019	ND<10	173
Rank Sum = 2076			
Rank Mean = 173			
<hr/>			
GWC-11	6/10/2014	ND<10	173
	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/13/2019	ND<10	173
Rank Sum = 2076			
Rank Mean = 173			
<hr/>			
GWC-12	6/10/2014	ND<10	173
	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/12/2019	ND<10	173
	12/10/2019	ND<10	173
Rank Sum = 2076			
Rank Mean = 173			
<hr/>			
GWC-12A	6/10/2014	ND<10	173
	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173

Total Nickel

	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/12/2019	ND<10	173
	12/10/2019	ND<10	173
Rank Sum = 2076			
Rank Mean = 173			
<hr/>			
GWC-13	6/10/2014	ND<10	173
	12/12/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/16/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/12/2019	ND<10	173
Rank Sum = 2076			
Rank Mean = 173			
<hr/>			
GWC-17	6/10/2014	ND<10	173
	12/11/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/14/2016	ND<10	173
	6/15/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/11/2019	ND<10	173
Rank Sum = 1903			
Rank Mean = 173			
<hr/>			
GWC-18	6/10/2014	ND<10	173
	12/11/2014	ND<10	173
	6/23/2015	47	361
	12/10/2015	ND<10	173
	6/14/2016	ND<10	173
	12/7/2016	64	362
	6/15/2017	34	357
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/19/2018	ND<10	173
	6/12/2019	24	350
	12/10/2019	29.8	356
Rank Sum = 2997			
Rank Mean = 249.75			
<hr/>			
GWC-14	6/11/2014	ND<10	173
	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/10/2015	ND<10	173
	6/15/2016	ND<10	173
	6/21/2018	ND<10	173

Total Nickel

6/12/2019 ND<10 173
 12/11/2019 ND<10 173

Rank Sum = 1384
 Rank Mean = 173

GWC-14A 6/11/2014 35 358
 12/10/2014 38 360
 6/24/2015 36 359
 12/10/2015 28 354
 6/16/2016 28 355
 12/8/2016 27 353
 6/13/2017 24 351
 12/13/2017 21 347
 6/21/2018 24 352
 12/19/2018 20 346
 6/12/2019 21 348
 12/11/2019 ND<10 173

Rank Sum = 4056
 Rank Mean = 338

GWC-15 6/11/2014 ND<10 173
 12/11/2014 ND<10 173
 6/24/2015 ND<10 173
 12/9/2015 ND<10 173
 6/16/2016 ND<10 173
 12/8/2016 ND<10 173
 6/14/2017 ND<10 173
 12/14/2017 ND<10 173
 6/20/2018 ND<10 173
 12/19/2018 ND<10 173
 6/11/2019 ND<10 173
 12/10/2019 ND<10 173

Rank Sum = 2076
 Rank Mean = 173

GWC-19R 6/11/2014 ND<10 173
 12/11/2014 ND<10 173
 6/23/2015 ND<10 173
 12/10/2015 ND<10 173
 6/16/2016 ND<10 173
 12/7/2016 ND<10 173
 6/15/2017 ND<10 173
 12/14/2017 ND<10 173
 6/20/2018 ND<10 173
 12/19/2018 ND<10 173
 6/12/2019 ND<10 173
 12/10/2019 ND<10 173

Rank Sum = 2076
 Rank Mean = 173

GWC-22 6/11/2014 ND<10 173
 12/9/2014 ND<10 173
 6/23/2015 ND<10 173
 12/10/2015 ND<10 173
 6/16/2016 ND<10 173
 12/7/2016 ND<10 173
 6/15/2017 ND<10 173

Total Nickel

12/12/2017 ND<10 173
 6/20/2018 ND<10 173
 12/19/2018 ND<10 173
 6/13/2019 ND<10 173
 12/12/2019 ND<10 173

Rank Sum = 2076
 Rank Mean = 173

GWC-23A 6/11/2014 ND<10 173
 12/8/2014 ND<10 173
 6/23/2015 ND<10 173
 12/9/2015 ND<10 173
 6/15/2016 ND<10 173
 12/7/2016 ND<10 173
 6/15/2017 ND<10 173
 12/12/2017 ND<10 173
 6/19/2018 ND<10 173
 12/19/2018 ND<10 173
 6/13/2019 ND<10 173
 12/12/2019 ND<10 173

Rank Sum = 2076
 Rank Mean = 173

GWC-4A 6/11/2014 ND<10 173
 12/12/2014 ND<10 173
 6/25/2015 ND<10 173
 12/10/2015 ND<10 173
 6/17/2016 ND<10 173
 12/8/2016 ND<10 173
 6/14/2017 ND<10 173
 12/13/2017 ND<10 173
 6/21/2018 ND<10 173
 12/18/2018 ND<10 173
 6/12/2019 22 349
 12/12/2019 ND<10 173

Rank Sum = 2252
 Rank Mean = 187.667

GWC-5 6/11/2014 ND<10 173
 12/9/2014 ND<10 173
 6/25/2015 ND<10 173
 12/8/2015 ND<10 173
 6/15/2016 ND<10 173
 12/9/2016 ND<10 173
 6/13/2017 ND<10 173
 12/13/2017 ND<10 173
 6/21/2018 ND<10 173
 12/19/2018 ND<10 173
 6/13/2019 ND<10 173
 12/11/2019 ND<10 173

Rank Sum = 2076
 Rank Mean = 173

GWC-6 6/11/2014 ND<10 173
 12/10/2014 ND<10 173
 6/23/2015 ND<10 173
 12/9/2015 ND<10 173

Total Nickel

6/15/2016	ND<10	173
12/9/2016	ND<10	173
6/13/2017	ND<10	173
12/14/2017	ND<10	173
6/21/2018	ND<10	173
12/20/2018	ND<10	173
6/13/2019	ND<10	173
12/11/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-7	6/11/2014	ND<10	173
	12/9/2014	ND<10	173
	6/25/2015	ND<10	173
	12/8/2015	ND<10	173
	6/16/2016	ND<10	173
	12/9/2016	ND<10	173
	6/13/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/19/2018	ND<10	173
	6/13/2019	ND<10	173
	12/12/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-10	6/12/2014	ND<10	173
	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/11/2019	ND<10	173
	12/13/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-10A	6/12/2014	ND<10	173
	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/11/2019	ND<10	173
	12/13/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-23	6/12/2014	ND<10	173
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Total Nickel

12/9/2014	ND<10	173
6/23/2015	ND<10	173
12/9/2015	ND<10	173
6/16/2016	ND<10	173
12/7/2016	ND<10	173
6/15/2017	ND<10	173
12/12/2017	ND<10	173
6/19/2018	ND<10	173
12/19/2018	ND<10	173
6/13/2019	ND<10	173
12/12/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-24	6/12/2014	ND<10	173
	6/23/2015	ND<10	173
	6/14/2016	ND<10	173
	6/15/2017	ND<10	173
	6/20/2018	ND<10	173
	6/12/2019	ND<10	173
	12/10/2019	ND<10	173

Rank Sum = 1211
Rank Mean = 173

GWC-3	6/12/2014	ND<10	173
	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/15/2016	ND<10	173
	6/21/2018	ND<10	173
	12/18/2018	ND<10	173
	6/12/2019	ND<10	173
	12/11/2019	ND<10	173

Rank Sum = 1384
Rank Mean = 173

GWC-3A	6/12/2014	ND<10	173
	12/12/2014	ND<10	173
	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/13/2017	ND<10	173
	6/21/2018	ND<10	173
	12/18/2018	ND<10	173
	6/12/2019	ND<10	173
	12/11/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-8	6/12/2014	ND<10	173
	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/10/2015	ND<10	173
	6/16/2016	ND<10	173
	12/9/2016	ND<10	173
	12/13/2017	ND<10	173

Total Nickel

6/21/2018	ND<10	173
6/13/2019	ND<10	173
12/12/2019	ND<10	173
Rank Sum = 1730		
Rank Mean = 173		

GWC-8A	6/12/2014	ND<10	173
	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/10/2015	ND<10	173
	6/16/2016	ND<10	173
	12/9/2016	ND<10	173
	6/14/2017	ND<10	173
	12/13/2017	ND<10	173
	6/21/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/12/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-9	6/12/2014	ND<10	173
	12/12/2014	ND<10	173
	6/23/2015	ND<10	173
	12/9/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/14/2017	ND<10	173
	6/21/2018	ND<10	173
	12/19/2018	ND<10	173
	6/13/2019	ND<10	173
	12/13/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-16A	6/13/2014	ND<10	173
	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/10/2015	ND<10	173
	6/17/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/21/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/12/2019	ND<10	173

Rank Sum = 2076
Rank Mean = 173

GWC-2	6/13/2014	ND<10	173
	12/12/2014	ND<10	173
	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173

Total Nickel

6/16/2017	ND<10	173
12/14/2017	ND<10	173
6/21/2018	ND<10	173
12/20/2018	ND<10	173
6/13/2019	ND<10	173

Rank Sum = 1903
Rank Mean = 173

GWC-4	6/13/2014	ND<10	173
	12/12/2014	ND<10	173
	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/17/2016	ND<10	173
	12/8/2016	ND<10	173
	6/21/2018	ND<10	173

Rank Sum = 1211
Rank Mean = 173

Calculation Results:

Kruskal-Wallis H Statistic = 34.1367

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 254.046

95% Confidence comparison value is 43.773 at 30 degrees of freedom

34.1367 < 43.773 indicating no significant group difference at 5% significance level

254.046 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 173

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	173	0	86.0688
GWA-3	173	0	86.0688
GWC-11	173	0	86.0688
GWC-12	173	0	86.0688
GWC-12A	173	0	86.0688
GWC-13	173	0	86.0688
GWC-17	173	0	88.6385
GWC-18	249.75	76.75	86.0688
GWC-14	173	0	99.3836
GWC-14A	338	165	86.0688
GWC-15	173	0	86.0688
GWC-19R	173	0	86.0688
GWC-22	173	0	86.0688
GWC-23A	173	0	86.0688
GWC-4A	187.667	14.6667	86.0688
GWC-5	173	0	86.0688
GWC-6	173	0	86.0688
GWC-7	173	0	86.0688
GWC-10	173	0	86.0688
GWC-10A	173	0	86.0688
GWC-23	173	0	86.0688
GWC-24	173	0	104.572
GWC-3	173	0	99.3836
GWC-3A	173	0	86.0688
GWC-8	173	0	91.6272
GWC-8A	173	0	86.0688

Total Nickel

GWC-9	173	0	86.0688
GWC-16A	173	0	86.0688
GWC-2	173	0	88.6385
GWC-4	173	0	104.572

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.166667% Significance Level per comparison)**

0.166667% Z score is 3.09024
Mean background rank is 173

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	173	0	114.331
GWA-3	173	0	114.331
GWC-11	173	0	114.331
GWC-12	173	0	114.331
GWC-12A	173	0	114.331
GWC-13	173	0	114.331
GWC-17	173	0	117.745
GWC-18	249.75	76.75	114.331
GWC-14	173	0	132.018
GWC-14A	338	165	114.331
GWC-15	173	0	114.331
GWC-19R	173	0	114.331
GWC-22	173	0	114.331
GWC-23A	173	0	114.331
GWC-4A	187.667	14.6667	114.331
GWC-5	173	0	114.331
GWC-6	173	0	114.331
GWC-7	173	0	114.331
GWC-10	173	0	114.331
GWC-10A	173	0	114.331
GWC-23	173	0	114.331
GWC-24	173	0	138.911
GWC-3	173	0	132.018
GWC-3A	173	0	114.331
GWC-8	173	0	121.715
GWC-8A	173	0	114.331
GWC-9	173	0	114.331
GWC-16A	173	0	114.331
GWC-2	173	0	117.745
GWC-4	173	0	138.911

Total Zinc

Kruskal-Wallis Non-Parametric Test

Parameter: Total Zinc
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/10/2014	25	284
	12/9/2014	30	306
	6/24/2015	45	334
	12/9/2015	31	310
	6/15/2016	31	311
	12/8/2016	20	252
	6/14/2017	23	270
	12/12/2017	38	319
	6/20/2018	48	339
	12/18/2018	44	332
6/11/2019	42	328	
12/10/2019	30.4	309	

Rank Sum = 3694

Rank Mean = 307.833

GWA-2	6/12/2014	ND<10	126
	12/10/2014	ND<10	126
	6/25/2015	ND<10	126
	12/8/2015	ND<10	126
	6/14/2016	20	253
	12/9/2016	ND<10	126
	6/16/2017	ND<10	126
	12/12/2017	ND<10	126
	6/20/2018	ND<10	126
	12/18/2018	ND<10	126
6/12/2019	30	307	
12/12/2019	25.9	289	

Rank Sum = 1983

Rank Mean = 165.25

Background Rank Sum = 5677

Background Rank Mean = 236.542

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/10/2014	ND<10	126
	12/8/2014	ND<10	126
	6/23/2015	ND<10	126
	12/8/2015	ND<10	126
	6/14/2016	ND<10	126
	12/7/2016	ND<10	126
	6/12/2017	ND<10	126
	12/13/2017	24	278
	6/20/2018	ND<10	126
	12/18/2018	ND<10	126
	6/10/2019	ND<10	126

Total Zinc

12/9/2019 ND<10 126
 Rank Sum = 1664
 Rank Mean = 138.667

GWA-3 6/10/2014 ND<10 126
 12/9/2014 ND<10 126
 6/23/2015 ND<10 126
 12/8/2015 43 331
 6/14/2016 ND<10 126
 12/9/2016 ND<10 126
 6/15/2017 ND<10 126
 12/12/2017 ND<10 126
 6/19/2018 41 326
 12/18/2018 ND<10 126
 6/12/2019 ND<10 126
 12/11/2019 71.5 352

Rank Sum = 2143
 Rank Mean = 178.583

GWC-11 6/10/2014 ND<10 126
 12/10/2014 21 264
 6/23/2015 29 304
 12/8/2015 ND<10 126
 6/15/2016 ND<10 126
 12/8/2016 ND<10 126
 6/15/2017 ND<10 126
 12/14/2017 ND<10 126
 6/20/2018 26 290
 12/20/2018 ND<10 126
 6/13/2019 34 314
 12/13/2019 23.3 276

Rank Sum = 2330
 Rank Mean = 194.167

GWC-12 6/10/2014 ND<10 126
 12/10/2014 20 254
 6/23/2015 ND<10 126
 12/8/2015 ND<10 126
 6/15/2016 ND<10 126
 12/8/2016 ND<10 126
 6/15/2017 ND<10 126
 12/14/2017 ND<10 126
 6/20/2018 ND<10 126
 12/20/2018 ND<10 126
 6/12/2019 ND<10 126
 12/10/2019 ND<10 126

Rank Sum = 1640
 Rank Mean = 136.667

GWC-12A 6/10/2014 ND<10 126
 12/10/2014 ND<10 126
 6/23/2015 ND<10 126
 12/8/2015 ND<10 126
 6/15/2016 ND<10 126
 12/8/2016 20 255
 6/15/2017 ND<10 126
 12/14/2017 ND<10 126

Total Zinc

6/20/2018 26 291
 12/20/2018 ND<10 126
 6/12/2019 ND<10 126
 12/10/2019 ND<10 126

Rank Sum = 1806
 Rank Mean = 150.5

GWC-13 6/10/2014 ND<10 126
 12/12/2014 ND<10 126
 6/23/2015 45 335
 12/8/2015 ND<10 126
 6/16/2016 ND<10 126
 12/8/2016 ND<10 126
 6/15/2017 ND<10 126
 12/13/2017 ND<10 126
 6/20/2018 ND<10 126
 12/20/2018 ND<10 126
 6/13/2019 ND<10 126
 12/12/2019 23.6 277

Rank Sum = 1872
 Rank Mean = 156

GWC-17 6/10/2014 ND<10 126
 12/11/2014 ND<10 126
 6/23/2015 ND<10 126
 12/8/2015 ND<10 126
 6/14/2016 ND<10 126
 6/15/2017 20 256
 12/13/2017 ND<10 126
 6/20/2018 ND<10 126
 12/20/2018 27 297
 6/13/2019 24 279
 12/11/2019 ND<10 126

Rank Sum = 1840
 Rank Mean = 167.273

GWC-18 6/10/2014 ND<10 126
 12/11/2014 ND<10 126
 6/23/2015 ND<10 126
 12/10/2015 ND<10 126
 6/14/2016 ND<10 126
 12/7/2016 49 340
 6/15/2017 21 265
 12/14/2017 29 305
 6/20/2018 ND<10 126
 12/19/2018 26 292
 6/12/2019 ND<10 126
 12/10/2019 38.7 324

Rank Sum = 2408
 Rank Mean = 200.667

GWC-14 6/11/2014 21 266
 12/11/2014 36 317
 6/24/2015 23 271
 12/10/2015 68 351
 6/15/2016 20 257
 6/21/2018 67 349

Total Zinc

	6/12/2019	ND<10	126
	12/11/2019	27.7	300

Rank Sum = 2237
Rank Mean = 279.625

GWC-14A	6/11/2014	ND<10	126
	12/10/2014	ND<10	126
	6/24/2015	ND<10	126
	12/10/2015	20	258
	6/16/2016	ND<10	126
	12/8/2016	ND<10	126
	6/13/2017	ND<10	126
	12/13/2017	ND<10	126
	6/21/2018	20	259
	12/19/2018	ND<10	126
	6/12/2019	ND<10	126
	12/11/2019	ND<10	126

Rank Sum = 1777
Rank Mean = 148.083

GWC-15	6/11/2014	ND<10	126
	12/11/2014	270	362
	6/24/2015	50	341
	12/9/2015	39	325
	6/16/2016	55	344
	12/8/2016	ND<10	126
	6/14/2017	90	358
	12/14/2017	60	346
	6/20/2018	56	345
	12/19/2018	ND<10	126
	6/11/2019	ND<10	126
	12/10/2019	ND<10	126

Rank Sum = 3051
Rank Mean = 254.25

GWC-19R	6/11/2014	ND<10	126
	12/11/2014	ND<10	126
	6/23/2015	ND<10	126
	12/10/2015	ND<10	126
	6/16/2016	ND<10	126
	12/7/2016	ND<10	126
	6/15/2017	ND<10	126
	12/14/2017	ND<10	126
	6/20/2018	21	267
	12/19/2018	ND<10	126
	6/12/2019	ND<10	126
	12/10/2019	ND<10	126

Rank Sum = 1653
Rank Mean = 137.75

GWC-22	6/11/2014	170	361
	12/9/2014	ND<10	126
	6/23/2015	ND<10	126
	12/10/2015	26	293
	6/16/2016	ND<10	126
	12/7/2016	ND<10	126
	6/15/2017	ND<10	126

Total Zinc

	12/12/2017	ND<10	126
	6/20/2018	21	268
	12/19/2018	ND<10	126
	6/13/2019	ND<10	126
	12/12/2019	ND<10	126

Rank Sum = 2056
Rank Mean = 171.333

GWC-23A	6/11/2014	ND<10	126
	12/8/2014	ND<10	126
	6/23/2015	ND<10	126
	12/9/2015	ND<10	126
	6/15/2016	ND<10	126
	12/7/2016	ND<10	126
	6/15/2017	ND<10	126
	12/12/2017	ND<10	126
	6/19/2018	ND<10	126
	12/19/2018	ND<10	126
	6/13/2019	ND<10	126
	12/12/2019	31.6	313

Rank Sum = 1699
Rank Mean = 141.583

GWC-4A	6/11/2014	ND<10	126
	12/12/2014	ND<10	126
	6/25/2015	ND<10	126
	12/10/2015	ND<10	126
	6/17/2016	ND<10	126
	12/8/2016	ND<10	126
	6/14/2017	ND<10	126
	12/13/2017	25	285
	6/21/2018	ND<10	126
	12/18/2018	ND<10	126
	6/12/2019	23	272
	12/12/2019	50	342

Rank Sum = 2033
Rank Mean = 169.417

GWC-5	6/11/2014	ND<10	126
	12/9/2014	ND<10	126
	6/25/2015	ND<10	126
	12/8/2015	ND<10	126
	6/15/2016	ND<10	126
	12/9/2016	ND<10	126
	6/13/2017	20	260
	12/13/2017	ND<10	126
	6/21/2018	ND<10	126
	12/19/2018	26	294
	6/13/2019	ND<10	126
	12/11/2019	38.3	323

Rank Sum = 2011
Rank Mean = 167.583

GWC-6	6/11/2014	ND<10	126
	12/10/2014	ND<10	126
	6/23/2015	ND<10	126
	12/9/2015	ND<10	126

Total Zinc

6/15/2016	ND<10	126
12/9/2016	ND<10	126
6/13/2017	ND<10	126
12/14/2017	ND<10	126
6/21/2018	ND<10	126
12/20/2018	ND<10	126
6/13/2019	ND<10	126
12/11/2019	ND<10	126

Rank Sum = 1512
Rank Mean = 126

GWC-7	6/11/2014	24	280
	12/9/2014	27	298
	6/25/2015	ND<10	126
	12/8/2015	27	299
	6/16/2016	36	318
	12/9/2016	ND<10	126
	6/13/2017	20	261
	12/13/2017	ND<10	126
	6/20/2018	30	308
	12/19/2018	110	359
	6/13/2019	23	273
	12/12/2019	42.2	330

Rank Sum = 3104
Rank Mean = 258.667

GWC-10	6/12/2014	ND<10	126
	12/10/2014	ND<10	126
	6/23/2015	ND<10	126
	12/8/2015	26	295
	6/15/2016	ND<10	126
	12/9/2016	23	274
	6/16/2017	ND<10	126
	12/13/2017	28	301
	6/20/2018	41	327
	12/18/2018	22	269
	6/11/2019	24	281
	12/13/2019	86.4	357

Rank Sum = 2734
Rank Mean = 227.833

GWC-10A	6/12/2014	ND<10	126
	12/10/2014	20	262
	6/23/2015	ND<10	126
	12/8/2015	ND<10	126
	6/15/2016	ND<10	126
	12/9/2016	ND<10	126
	6/16/2017	ND<10	126
	12/13/2017	ND<10	126
	6/20/2018	ND<10	126
	12/18/2018	38	320
	6/11/2019	ND<10	126
	12/13/2019	31.2	312

Rank Sum = 2028
Rank Mean = 169

GWC-23	6/12/2014	ND<10	126
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Total Zinc

12/9/2014	ND<10	126
6/23/2015	ND<10	126
12/9/2015	ND<10	126
6/16/2016	ND<10	126
12/7/2016	ND<10	126
6/15/2017	ND<10	126
12/12/2017	ND<10	126
6/19/2018	ND<10	126
12/19/2018	ND<10	126
6/13/2019	ND<10	126
12/12/2019	ND<10	126

Rank Sum = 1512
Rank Mean = 126

GWC-24	6/12/2014	ND<10	126
	6/23/2015	ND<10	126
	6/14/2016	ND<10	126
	6/15/2017	ND<10	126
	6/20/2018	ND<10	126
	6/12/2019	ND<10	126
	12/10/2019	24	282

Rank Sum = 1038
Rank Mean = 148.286

GWC-3	6/12/2014	ND<10	126
	6/25/2015	ND<10	126
	12/10/2015	ND<10	126
	6/15/2016	25	286
	6/21/2018	ND<10	126
	12/18/2018	ND<10	126
	6/12/2019	ND<10	126
	12/11/2019	ND<10	126

Rank Sum = 1168
Rank Mean = 146

GWC-3A	6/12/2014	ND<10	126
	12/12/2014	20	263
	6/25/2015	ND<10	126
	12/10/2015	ND<10	126
	6/15/2016	ND<10	126
	12/9/2016	ND<10	126
	6/16/2017	34	315
	12/13/2017	ND<10	126
	6/21/2018	ND<10	126
	12/18/2018	ND<10	126
	6/12/2019	24	283
	12/11/2019	28.8	303

Rank Sum = 2172
Rank Mean = 181

GWC-8	6/12/2014	ND<10	126
	12/11/2014	ND<10	126
	6/24/2015	ND<10	126
	12/10/2015	ND<10	126
	6/16/2016	ND<10	126
	12/9/2016	26	296
	12/13/2017	ND<10	126

Total Zinc

6/21/2018	ND<10	126
6/13/2019	ND<10	126
12/12/2019	ND<10	126
Rank Sum = 1430		
Rank Mean = 143		

GWC-8A	6/12/2014	ND<10	126
	12/11/2014	ND<10	126
	6/24/2015	ND<10	126
	12/10/2015	ND<10	126
	6/16/2016	ND<10	126
	12/9/2016	ND<10	126
	6/14/2017	ND<10	126
	12/13/2017	ND<10	126
	6/21/2018	34	316
	12/20/2018	42	329
	6/13/2019	ND<10	126
	12/12/2019	ND<10	126

Rank Sum = 1905
Rank Mean = 158.75

GWC-9	6/12/2014	47	338
	12/12/2014	86	356
	6/23/2015	67	350
	12/9/2015	38	321
	6/15/2016	54	343
	12/9/2016	140	360
	6/16/2017	73	353
	12/14/2017	46	337
	6/21/2018	45	336
	12/19/2018	38	322
	6/13/2019	60	347
	12/13/2019	78	354

Rank Sum = 4117
Rank Mean = 343.083

GWC-16A	6/13/2014	ND<10	126
	12/11/2014	ND<10	126
	6/24/2015	ND<10	126
	12/10/2015	ND<10	126
	6/17/2016	ND<10	126
	12/8/2016	ND<10	126
	6/15/2017	79	355
	12/14/2017	ND<10	126
	6/21/2018	44	333
	12/20/2018	ND<10	126
	6/13/2019	ND<10	126
	12/12/2019	ND<10	126

Rank Sum = 1948
Rank Mean = 162.333

GWC-2	6/13/2014	ND<10	126
	12/12/2014	25	287
	6/25/2015	ND<10	126
	12/10/2015	ND<10	126
	6/15/2016	ND<10	126
	12/9/2016	ND<10	126

Total Zinc

6/16/2017	ND<10	126
12/14/2017	ND<10	126
6/21/2018	ND<10	126
12/20/2018	23	275
6/13/2019	28	302

Rank Sum = 1872
Rank Mean = 170.182

GWC-4	6/13/2014	ND<10	126
	12/12/2014	ND<10	126
	6/25/2015	ND<10	126
	12/10/2015	62	348
	6/17/2016	ND<10	126
	12/8/2016	ND<10	126
	6/21/2018	25	288

Rank Sum = 1266
Rank Mean = 180.857

Calculation Results:

Kruskal-Wallis H Statistic = 80.2866
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 120.432
95% Confidence comparison value is 43.773 at 30 degrees of freedom
80.2866 > 43.773 indicating a significant group difference at 5% significance level
120.432 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 236.542

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	138.667	-97.875	86.0688
GWA-3	178.583	-57.9583	86.0688
GWC-11	194.167	-42.375	86.0688
GWC-12	136.667	-99.875	86.0688
GWC-12A	150.5	-86.0417	86.0688
GWC-13	156	-80.5417	86.0688
GWC-17	167.273	-69.2689	88.6385
GWC-18	200.667	-35.875	86.0688
GWC-14	279.625	43.0833	99.3836
GWC-14A	148.083	-88.4583	86.0688
GWC-15	254.25	17.7083	86.0688
GWC-19R	137.75	-98.7917	86.0688
GWC-22	171.333	-65.2083	86.0688
GWC-23A	141.583	-94.9583	86.0688
GWC-4A	169.417	-67.125	86.0688
GWC-5	167.583	-68.9583	86.0688
GWC-6	126	-110.542	86.0688
GWC-7	258.667	22.125	86.0688
GWC-10	227.833	-8.70833	86.0688
GWC-10A	169	-67.5417	86.0688
GWC-23	126	-110.542	86.0688
GWC-24	148.286	-88.256	104.572
GWC-3	146	-90.5417	99.3836
GWC-3A	181	-55.5417	86.0688
GWC-8	143	-93.5417	91.6272
GWC-8A	158.75	-77.7917	86.0688

Total Zinc

GWC-9	343.083	106.542	86.0688
GWC-16A	162.333	-74.2083	86.0688
GWC-2	170.182	-66.3598	88.6385
GWC-4	180.857	-55.6845	104.572

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.166667% Significance Level per comparison)**

0.166667% Z score is 3.09024

Mean background rank is 236.542

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	138.667	-97.875	114.331
GWA-3	178.583	-57.9583	114.331
GWC-11	194.167	-42.375	114.331
GWC-12	136.667	-99.875	114.331
GWC-12A	150.5	-86.0417	114.331
GWC-13	156	-80.5417	114.331
GWC-17	167.273	-69.2689	117.745
GWC-18	200.667	-35.875	114.331
GWC-14	279.625	43.0833	132.018
GWC-14A	148.083	-88.4583	114.331
GWC-15	254.25	17.7083	114.331
GWC-19R	137.75	-98.7917	114.331
GWC-22	171.333	-65.2083	114.331
GWC-23A	141.583	-94.9583	114.331
GWC-4A	169.417	-67.125	114.331
GWC-5	167.583	-68.9583	114.331
GWC-6	126	-110.542	114.331
GWC-7	258.667	22.125	114.331
GWC-10	227.833	-8.70833	114.331
GWC-10A	169	-67.5417	114.331
GWC-23	126	-110.542	114.331
GWC-24	148.286	-88.256	138.911
GWC-3	146	-90.5417	132.018
GWC-3A	181	-55.5417	114.331
GWC-8	143	-93.5417	121.715
GWC-8A	158.75	-77.7917	114.331
GWC-9	343.083	106.542	114.331
GWC-16A	162.333	-74.2083	114.331
GWC-2	170.182	-66.3598	117.745
GWC-4	180.857	-55.6845	138.911

Trichloroethene

Kruskal-Wallis Non-Parametric Test

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	174
	12/8/2014	ND<1	174
	6/23/2015	ND<1	174
	12/8/2015	ND<1	174
	6/14/2016	ND<1	174
	12/7/2016	ND<1	174
	6/13/2017	ND<1	174
	12/11/2017	ND<1	174
	6/19/2018	ND<1	174
	12/17/2018	ND<1	174
6/10/2019	ND<1	174	
12/9/2019	ND<1	174	

Rank Sum = 2088

Rank Mean = 174

GWA-2	6/11/2014	ND<1	174
	12/9/2014	ND<1	174
	6/24/2015	ND<1	174
	12/7/2015	ND<1	174
	6/13/2016	ND<1	174
	12/8/2016	ND<1	174
	6/15/2017	ND<1	174
	12/11/2017	ND<1	174
	6/19/2018	ND<1	174
	12/17/2018	ND<1	174
6/11/2019	ND<1	174	
12/11/2019	ND<1	174	

Rank Sum = 2088

Rank Mean = 174

Background Rank Sum = 4176

Background Rank Mean = 174

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	174
	12/8/2014	ND<1	174
	6/22/2015	ND<1	174
	12/7/2015	ND<1	174
	6/13/2016	ND<1	174
	12/8/2016	ND<1	174
	6/14/2017	ND<1	174
	12/11/2017	ND<1	174
	6/18/2018	ND<1	174
	12/17/2018	ND<1	174
6/11/2019	ND<1	174	

Trichloroethene

12/10/2019 ND<1 174
 Rank Sum = 2088
 Rank Mean = 174

GWC-11 6/9/2014 ND<1 174
 12/9/2014 ND<1 174
 6/22/2015 ND<1 174
 12/7/2015 ND<1 174
 6/14/2016 ND<1 174
 12/7/2016 ND<1 174
 6/14/2017 ND<1 174
 12/13/2017 ND<1 174
 6/19/2018 ND<1 174
 12/19/2018 ND<1 174
 6/12/2019 ND<1 174
 12/12/2019 ND<1 174

Rank Sum = 2088
 Rank Mean = 174

GWC-12 6/9/2014 ND<1 174
 12/9/2014 ND<1 174
 6/22/2015 ND<1 174
 12/7/2015 ND<1 174
 6/14/2016 ND<1 174
 12/7/2016 ND<1 174
 6/14/2017 ND<1 174
 12/13/2017 ND<1 174
 6/19/2018 ND<1 174
 12/19/2018 ND<1 174
 6/11/2019 ND<1 174
 12/9/2019 ND<1 174

Rank Sum = 2088
 Rank Mean = 174

GWC-12A 6/9/2014 ND<1 174
 12/9/2014 ND<1 174
 6/22/2015 ND<1 174
 12/7/2015 ND<1 174
 6/14/2016 ND<1 174
 12/7/2016 ND<1 174
 6/14/2017 ND<1 174
 12/13/2017 ND<1 174
 6/19/2018 ND<1 174
 12/19/2018 ND<1 174
 6/11/2019 ND<1 174
 12/9/2019 ND<1 174

Rank Sum = 2088
 Rank Mean = 174

GWC-13 6/9/2014 ND<1 174
 12/11/2014 ND<1 174
 6/22/2015 ND<1 174
 12/7/2015 ND<1 174
 6/15/2016 ND<1 174
 12/7/2016 ND<1 174
 6/14/2017 ND<1 174
 12/12/2017 ND<1 174

Trichloroethene

6/19/2018 ND<1 174
 12/19/2018 ND<1 174
 6/12/2019 ND<1 174
 12/11/2019 ND<1 174

Rank Sum = 2088
 Rank Mean = 174

GWC-17 6/9/2014 ND<1 174
 12/10/2014 ND<1 174
 6/22/2015 ND<1 174
 12/8/2015 ND<1 174
 6/13/2016 ND<1 174
 6/14/2017 ND<1 174
 12/12/2017 ND<1 174
 6/19/2018 ND<1 174
 12/19/2018 ND<1 174
 6/12/2019 ND<1 174
 12/10/2019 ND<1 174

Rank Sum = 1914
 Rank Mean = 174

GWC-18 6/9/2014 3.6 365
 12/10/2014 4.5 373
 6/22/2015 3.5 363
 12/9/2015 2.7 359
 6/13/2016 ND<1 174
 12/6/2016 2.3 355
 6/14/2017 ND<1 174
 12/13/2017 2.3 356
 6/19/2018 ND<1 174
 12/18/2018 2.1 349
 6/11/2019 ND<1 174
 12/9/2019 2.6 358

Rank Sum = 3574
 Rank Mean = 297.833

GWA-1A 6/10/2014 ND<1 174
 12/8/2014 ND<1 174
 6/23/2015 ND<1 174
 12/8/2015 ND<1 174
 6/14/2016 ND<1 174
 12/7/2016 ND<1 174
 6/12/2017 ND<1 174
 12/13/2017 ND<1 174
 6/19/2018 ND<1 174
 12/18/2018 ND<1 174
 6/10/2019 ND<1 174
 12/9/2019 ND<1 174

Rank Sum = 2088
 Rank Mean = 174

GWC-15 6/10/2014 ND<1 174
 12/10/2014 4.9 376
 6/23/2015 ND<1 174
 12/9/2015 2.4 357
 6/15/2016 ND<1 174
 12/8/2016 73 396

Trichloroethene

6/14/2017	2.1	350
12/13/2017	ND<1	174
6/19/2018	ND<1	174
12/19/2018	3.7	366
6/11/2019	70	395
12/10/2019	55	394

Rank Sum = 3504

Rank Mean = 292

GWC-19R	6/10/2014	ND<1	174
	12/10/2014	2.1	351
	6/22/2015	ND<1	174
	12/9/2015	ND<1	174
	6/15/2016	ND<1	174
	12/6/2016	ND<1	174
	6/14/2017	ND<1	174
	12/13/2017	ND<1	174
	6/19/2018	ND<1	174
	12/18/2018	ND<1	174
	6/11/2019	ND<1	174
	12/9/2019	ND<1	174

Rank Sum = 2265

Rank Mean = 188.75

GWC-22	6/10/2014	ND<1	174
	12/8/2014	ND<1	174
	6/22/2015	ND<1	174
	12/9/2015	ND<1	174
	6/15/2016	ND<1	174
	12/6/2016	ND<1	174
	6/14/2017	ND<1	174
	12/11/2017	ND<1	174
	6/19/2018	ND<1	174
	12/18/2018	ND<1	174
	6/12/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 2088

Rank Mean = 174

GWC-4A	6/10/2014	ND<1	174
	12/11/2014	ND<1	174
	6/24/2015	ND<1	174
	12/9/2015	ND<1	174
	6/16/2016	ND<1	174
	12/7/2016	ND<1	174
	6/13/2017	ND<1	174
	12/12/2017	ND<1	174
	6/20/2018	ND<1	174
	12/17/2018	ND<1	174
	6/11/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 2088

Rank Mean = 174

GWC-5	6/10/2014	ND<1	174
	12/8/2014	ND<1	174
	6/24/2015	ND<1	174

Trichloroethene

12/7/2015	ND<1	174
6/14/2016	ND<1	174
12/8/2016	ND<1	174
6/12/2017	ND<1	174
12/12/2017	ND<1	174
6/21/2018	ND<1	174
12/18/2018	ND<1	174
6/12/2019	ND<1	174
12/10/2019	ND<1	174

Rank Sum = 2088

Rank Mean = 174

GWC-6	6/10/2014	ND<1	174
	12/9/2014	ND<1	174
	6/22/2015	ND<1	174
	12/8/2015	ND<1	174
	6/14/2016	ND<1	174
	12/8/2016	ND<1	174
	6/12/2017	ND<1	174
	12/13/2017	ND<1	174
	6/21/2018	ND<1	174
	12/19/2018	ND<1	174
	6/12/2019	ND<1	174
	12/10/2019	ND<1	174

Rank Sum = 2088

Rank Mean = 174

GWC-7	6/10/2014	ND<1	174
	12/8/2014	ND<1	174
	6/24/2015	ND<1	174
	12/7/2015	ND<1	174
	6/15/2016	ND<1	174
	12/8/2016	ND<1	174
	6/12/2017	ND<1	174
	12/12/2017	ND<1	174
	6/19/2018	ND<1	174
	12/18/2018	ND<1	174
	6/12/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 2088

Rank Mean = 174

GWC-10	6/11/2014	ND<1	174
	12/9/2014	ND<1	174
	6/22/2015	ND<1	174
	12/7/2015	ND<1	174
	6/14/2016	ND<1	174
	12/8/2016	ND<1	174
	6/15/2017	ND<1	174
	12/12/2017	ND<1	174
	6/19/2018	ND<1	174
	12/17/2018	ND<1	174
	6/10/2019	ND<1	174
	12/12/2019	ND<1	174

Rank Sum = 2088

Rank Mean = 174

Trichloroethene

GWC-10A	6/11/2014	ND<1	174
	12/9/2014	ND<1	174
	6/22/2015	ND<1	174
	12/7/2015	ND<1	174
	6/14/2016	ND<1	174
	12/8/2016	ND<1	174
	6/15/2017	ND<1	174
	12/12/2017	ND<1	174
	6/19/2018	ND<1	174
	12/17/2018	ND<1	174
	6/10/2019	ND<1	174
	12/12/2019	ND<1	174

Rank Sum = 2088
Rank Mean = 174

GWC-14	6/11/2014	ND<1	174
	12/10/2014	ND<1	174
	6/24/2015	ND<1	174
	12/9/2015	ND<1	174
	6/15/2016	ND<1	174
	6/13/2017	ND<1	174
	6/20/2018	ND<1	174
	6/11/2019	ND<1	174
	12/10/2019	ND<1	174

Rank Sum = 1566
Rank Mean = 174

GWC-14A	6/11/2014	7	388
	12/10/2014	8	390
	6/23/2015	5	378
	12/9/2015	5.3	380
	6/15/2016	4.3	371
	12/8/2016	6.8	386
	6/13/2017	3.5	364
	12/12/2017	3.8	368
	6/20/2018	2.1	352
	12/19/2018	2.2	353
	6/11/2019	ND<1	174
	12/10/2019	3.1	362

Rank Sum = 4266
Rank Mean = 355.5

GWC-14R	6/11/2014	11	393
	12/10/2014	8.6	392
	6/23/2015	8.2	391
	12/10/2015	6.7	385
	6/15/2016	6.1	383
	12/8/2016	5.4	382
	6/13/2017	6.8	387
	12/12/2017	4.8	375
	6/20/2018	5.2	379
	12/19/2018	4.9	377
	6/12/2019	4.7	374
	12/10/2019	4.3	372

Rank Sum = 4590
Rank Mean = 382.5

Trichloroethene

GWC-23A	6/11/2014	ND<1	174
	12/8/2014	ND<1	174
	6/22/2015	ND<1	174
	12/8/2015	ND<1	174
	6/15/2016	ND<1	174
	12/6/2016	ND<1	174
	6/14/2017	ND<1	174
	12/11/2017	ND<1	174
	6/18/2018	ND<1	174
	12/18/2018	ND<1	174
	6/12/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 2088
Rank Mean = 174

GWC-24	6/11/2014	ND<1	174
	12/10/2014	ND<1	174
	6/22/2015	ND<1	174
	12/8/2015	ND<1	174
	6/13/2016	ND<1	174
	12/7/2016	ND<1	174
	6/14/2017	ND<1	174
	12/13/2017	ND<1	174
	6/19/2018	ND<1	174
	12/19/2018	ND<1	174
	6/11/2019	ND<1	174
	12/9/2019	ND<1	174

Rank Sum = 2088
Rank Mean = 174

GWC-3	6/11/2014	ND<1	174
	6/24/2015	ND<1	174
	12/9/2015	ND<1	174
	6/14/2016	ND<1	174
	12/8/2016	ND<1	174
	6/15/2017	ND<1	174
	6/21/2018	ND<1	174
	12/17/2018	ND<1	174
	6/11/2019	ND<1	174
	12/10/2019	ND<1	174

Rank Sum = 1740
Rank Mean = 174

GWC-3A	6/11/2014	ND<1	174
	12/11/2014	ND<1	174
	6/24/2015	ND<1	174
	12/9/2015	ND<1	174
	6/14/2016	ND<1	174
	12/8/2016	ND<1	174
	6/15/2017	ND<1	174
	12/12/2017	ND<1	174
	6/20/2018	ND<1	174
	12/17/2018	ND<1	174
	6/11/2019	ND<1	174
	12/10/2019	ND<1	174

Rank Sum = 2088
Rank Mean = 174

Trichloroethene

GWC-8	6/11/2014	ND<1	174
	12/10/2014	ND<1	174
	6/23/2015	ND<1	174
	12/10/2015	ND<1	174
	6/15/2016	ND<1	174
	12/8/2016	ND<1	174
	12/12/2017	ND<1	174
	6/20/2018	ND<1	174
	12/19/2018	ND<1	174
	6/12/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 1914
Rank Mean = 174

GWC-8A	6/11/2014	ND<1	174
	12/10/2014	2	348
	6/24/2015	ND<1	174
	12/10/2015	ND<1	174
	6/15/2016	ND<1	174
	12/8/2016	ND<1	174
	6/13/2017	ND<1	174
	12/12/2017	ND<1	174
	6/20/2018	ND<1	174
	12/19/2018	ND<1	174
	6/12/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 2262
Rank Mean = 188.5

GWC-8R	6/11/2014	3.7	367
	12/10/2014	3.8	369
	6/23/2015	2.2	354
	12/10/2015	2.9	360
	6/15/2016	ND<1	174
	12/8/2016	ND<1	174
	6/13/2017	2.9	361
	12/12/2017	ND<1	174
	6/20/2018	5.3	381
	12/19/2018	ND<1	174
	6/12/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 3236
Rank Mean = 269.667

GWC-9	6/11/2014	ND<1	174
	12/11/2014	ND<1	174
	6/22/2015	ND<1	174
	12/8/2015	ND<1	174
	6/14/2016	ND<1	174
	12/8/2016	ND<1	174
	6/15/2017	ND<1	174
	12/13/2017	ND<1	174
	6/20/2018	ND<1	174
	12/18/2018	ND<1	174
	6/12/2019	ND<1	174
	12/12/2019	ND<1	174

Trichloroethene

Rank Sum = 2088
Rank Mean = 174

GWC-16A	6/12/2014	6.4	384
	12/10/2014	ND<1	174
	6/24/2015	ND<1	174
	12/9/2015	7	389
	6/16/2016	ND<1	174
	12/7/2016	ND<1	174
	6/14/2017	3.9	370
	12/13/2017	ND<1	174
	6/21/2018	ND<1	174
	12/19/2018	ND<1	174
	6/13/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 2709
Rank Mean = 225.75

GWC-2	6/12/2014	ND<1	174
	12/11/2014	ND<1	174
	6/24/2015	ND<1	174
	12/9/2015	ND<1	174
	6/14/2016	ND<1	174
	12/8/2016	ND<1	174
	6/15/2017	ND<1	174
	12/13/2017	ND<1	174
	6/20/2018	ND<1	174
	12/19/2018	ND<1	174
	6/12/2019	ND<1	174
	12/10/2019	ND<1	174

Rank Sum = 2088
Rank Mean = 174

GWC-23	6/12/2014	ND<1	174
	12/8/2014	ND<1	174
	6/22/2015	ND<1	174
	12/8/2015	ND<1	174
	6/15/2016	ND<1	174
	12/6/2016	ND<1	174
	6/14/2017	ND<1	174
	12/11/2017	ND<1	174
	6/18/2018	ND<1	174
	12/18/2018	ND<1	174
	6/12/2019	ND<1	174
	12/11/2019	ND<1	174

Rank Sum = 2088
Rank Mean = 174

GWC-4	6/12/2014	ND<1	174
	12/11/2014	ND<1	174
	6/24/2015	ND<1	174
	12/9/2015	ND<1	174
	6/16/2016	ND<1	174
	12/7/2016	ND<1	174
	6/20/2018	ND<1	174

Rank Sum = 1218
Rank Mean = 174

Trichloroethene

Calculation Results:

Kruskal-Wallis H Statistic = 89.8767

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 274.705

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

89.8767 > 46.1942 indicating a significant group difference at 5% significance level

274.705 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 174

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	174	0	94.1414
GWC-11	174	0	94.1414
GWC-12	174	0	94.1414
GWC-12A	174	0	94.1414
GWC-13	174	0	94.1414
GWC-17	174	0	96.9522
GWC-18	297.833	123.833	94.1414
GWA-1A	174	0	94.1414
GWC-15	292	118	94.1414
GWC-19R	188.75	14.75	94.1414
GWC-22	174	0	94.1414
GWC-4A	174	0	94.1414
GWC-5	174	0	94.1414
GWC-6	174	0	94.1414
GWC-7	174	0	94.1414
GWC-10	174	0	94.1414
GWC-10A	174	0	94.1414
GWC-14	174	0	104.077
GWC-14A	355.5	181.5	94.1414
GWC-14R	382.5	208.5	94.1414
GWC-23A	174	0	94.1414
GWC-24	174	0	94.1414
GWC-3	174	0	100.221
GWC-3A	174	0	94.1414
GWC-8	174	0	96.9522
GWC-8A	188.5	14.5	94.1414
GWC-8R	269.667	95.6667	94.1414
GWC-9	174	0	94.1414
GWC-16A	225.75	51.75	94.1414
GWC-2	174	0	94.1414
GWC-23	174	0	94.1414
GWC-4	174	0	114.38

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 174

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	174	0	125.055
GWC-11	174	0	125.055
GWC-12	174	0	125.055
GWC-12A	174	0	125.055
GWC-13	174	0	125.055

Trichloroethene

GWC-17	174	0	128.789
GWC-18	297.833	123.833	125.055
GWA-1A	174	0	125.055
GWC-15	292	118	125.055
GWC-19R	188.75	14.75	125.055
GWC-22	174	0	125.055
GWC-4A	174	0	125.055
GWC-5	174	0	125.055
GWC-6	174	0	125.055
GWC-7	174	0	125.055
GWC-10	174	0	125.055
GWC-10A	174	0	125.055
GWC-14	174	0	138.253
GWC-14A	355.5	181.5	125.055
GWC-14R	382.5	208.5	125.055
GWC-23A	174	0	125.055
GWC-24	174	0	125.055
GWC-3	174	0	133.131
GWC-3A	174	0	125.055
GWC-8	174	0	128.789
GWC-8A	188.5	14.5	125.055
GWC-8R	269.667	95.6667	125.055
GWC-9	174	0	125.055
GWC-16A	225.75	51.75	125.055
GWC-2	174	0	125.055
GWC-23	174	0	125.055
GWC-4	174	0	151.94

Kruskal-Wallis Non-Parametric Test

Parameter: Vinyl chloride
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	6/9/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/10/2019	ND<1	190.5
	12/9/2019	ND<1	190.5

Rank Sum = 2286
 Rank Mean = 190.5

GWA-2	6/11/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
 Rank Mean = 190.5

Background Rank Sum = 4572
 Background Rank Mean = 190.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/9/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/18/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5

12/10/2019 ND<1 190.5
 Rank Sum = 2286
 Rank Mean = 190.5

GWC-11	6/9/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/12/2019	ND<1	190.5

Rank Sum = 2286
 Rank Mean = 190.5

GWC-12	6/9/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/9/2019	ND<1	190.5

Rank Sum = 2286
 Rank Mean = 190.5

GWC-12A	6/9/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/9/2019	ND<1	190.5

Rank Sum = 2286
 Rank Mean = 190.5

GWC-13	6/9/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/12/2017	ND<1	190.5

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6/19/2018	ND<1	190.5
12/19/2018	ND<1	190.5
6/12/2019	ND<1	190.5
12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-17	6/9/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/10/2019	ND<1	190.5

Rank Sum = 2095.5
Rank Mean = 190.5

GWC-18	6/9/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/9/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWA-1A	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/12/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/10/2019	ND<1	190.5
	12/9/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-15	6/10/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	2.3	381

Vinyl chloride

6/14/2017	ND<1	190.5
12/13/2017	ND<1	190.5
6/19/2018	ND<1	190.5
12/19/2018	ND<1	190.5
6/11/2019	ND<1	190.5
12/10/2019	ND<1	190.5

Rank Sum = 2476.5
Rank Mean = 206.375

GWC-19R	6/10/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/9/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-22	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-4A	6/10/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/16/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-5	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/24/2015	ND<1	190.5

Vinyl chloride

12/7/2015	ND<1	190.5
6/14/2016	ND<1	190.5
12/8/2016	ND<1	190.5
6/12/2017	ND<1	190.5
12/12/2017	ND<1	190.5
6/21/2018	ND<1	190.5
12/18/2018	ND<1	190.5
6/12/2019	ND<1	190.5
12/10/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-6	6/10/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/12/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/21/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/10/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-7	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/12/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-10	6/11/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/10/2019	ND<1	190.5
	12/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

Vinyl chloride

GWC-10A	6/11/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/10/2019	ND<1	190.5
	12/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-14	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/10/2019	ND<1	190.5

Rank Sum = 1714.5
Rank Mean = 190.5

GWC-14A	6/11/2014	5.9	390
	12/10/2014	5.4	388
	6/23/2015	6.3	395
	12/9/2015	6.1	393
	6/15/2016	8.4	396
	12/8/2016	5.7	389
	6/13/2017	3.5	382
	12/12/2017	6	391
	6/20/2018	6.2	394
	12/19/2018	4.9	387
	6/11/2019	4.3	384
	12/10/2019	4	383

Rank Sum = 4672
Rank Mean = 389.333

GWC-14R	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/10/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

Vinyl chloride

GWC-23A	6/11/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/18/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-24	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/9/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-3	6/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	6/21/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/10/2019	ND<1	190.5

Rank Sum = 1905
Rank Mean = 190.5

GWC-3A	6/11/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
	12/10/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

Vinyl chloride

GWC-8	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2095.5
Rank Mean = 190.5

GWC-8A	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-8R	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-9	6/11/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/12/2019	ND<1	190.5

Vinyl chloride

Rank Sum = 2286
Rank Mean = 190.5

Well	Date	Concentration	Rank
GWC-16A	6/12/2014	4.8	385
	12/10/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	6	392
	6/16/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	4.8	386
	12/13/2017	ND<1	190.5
	6/21/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/13/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2877.5
Rank Mean = 239.792

Well	Date	Concentration	Rank
GWC-2	6/12/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/10/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

Well	Date	Concentration	Rank
GWC-23	6/12/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/18/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
	12/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

Well	Date	Concentration	Rank
GWC-4	6/12/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/16/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/20/2018	ND<1	190.5

Rank Sum = 1333.5
Rank Mean = 190.5

Vinyl chloride

Calculation Results:

Kruskal-Wallis H Statistic = 36.734

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 315.636

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

36.734 < 46.1942 indicating no significant group difference at 5% significance level

315.636 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 190.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	190.5	0	94.1414
GWC-11	190.5	0	94.1414
GWC-12	190.5	0	94.1414
GWC-12A	190.5	0	94.1414
GWC-13	190.5	0	94.1414
GWC-17	190.5	0	96.9522
GWC-18	190.5	0	94.1414
GWA-1A	190.5	0	94.1414
GWC-15	206.375	15.875	94.1414
GWC-19R	190.5	0	94.1414
GWC-22	190.5	0	94.1414
GWC-4A	190.5	0	94.1414
GWC-5	190.5	0	94.1414
GWC-6	190.5	0	94.1414
GWC-7	190.5	0	94.1414
GWC-10	190.5	0	94.1414
GWC-10A	190.5	0	94.1414
GWC-14	190.5	0	104.077
GWC-14A	389.333	198.833	94.1414
GWC-14R	190.5	0	94.1414
GWC-23A	190.5	0	94.1414
GWC-24	190.5	0	94.1414
GWC-3	190.5	0	100.221
GWC-3A	190.5	0	94.1414
GWC-8	190.5	0	96.9522
GWC-8A	190.5	0	94.1414
GWC-8R	190.5	0	94.1414
GWC-9	190.5	0	94.1414
GWC-16A	239.792	49.2917	94.1414
GWC-2	190.5	0	94.1414
GWC-23	190.5	0	94.1414
GWC-4	190.5	0	114.38

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024

Mean background rank is 190.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	190.5	0	125.055
GWC-11	190.5	0	125.055
GWC-12	190.5	0	125.055
GWC-12A	190.5	0	125.055
GWC-13	190.5	0	125.055

Vinyl chloride

GWC-17	190.5	0	128.789
GWC-18	190.5	0	125.055
GWA-1A	190.5	0	125.055
GWC-15	206.375	15.875	125.055
GWC-19R	190.5	0	125.055
GWC-22	190.5	0	125.055
GWC-4A	190.5	0	125.055
GWC-5	190.5	0	125.055
GWC-6	190.5	0	125.055
GWC-7	190.5	0	125.055
GWC-10	190.5	0	125.055
GWC-10A	190.5	0	125.055
GWC-14	190.5	0	138.253
GWC-14A	389.333	198.833	125.055
GWC-14R	190.5	0	125.055
GWC-23A	190.5	0	125.055
GWC-24	190.5	0	125.055
GWC-3	190.5	0	133.131
GWC-3A	190.5	0	125.055
GWC-8	190.5	0	128.789
GWC-8A	190.5	0	125.055
GWC-8R	190.5	0	125.055
GWC-9	190.5	0	125.055
GWC-16A	239.792	49.2917	125.055
GWC-2	190.5	0	125.055
GWC-23	190.5	0	125.055
GWC-4	190.5	0	151.94

**STATISTICAL ANALYSIS:
Non-Parametric Tolerance Interval Test**

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-2	FALSE	96%
1,1-Dichloroethane	PH1-GWB-1	FALSE	96%
1,1-Dichloroethane	PH1-GWB-2	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	96%
1,1-Dichloroethane	PH1-GWC-2	TRUE	96%
1,1-Dichloroethane	PH1-GWC-3	TRUE	96%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	96%
1,1-Dichloroethane	PH1-GWC-4	FALSE	96%
1,1-Dichloroethane	GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWC-1	FALSE	96%
Benzene	PH1-GWA-1	FALSE	96%
Benzene	PH1-GWA-2	FALSE	96%
Benzene	PH1-GWB-1	FALSE	96%
Benzene	PH1-GWB-2	FALSE	96%
Benzene	PH1-GWA-1A	FALSE	96%
Benzene	PH1-GWC-2	FALSE	96%
Benzene	PH1-GWC-3	FALSE	96%
Benzene	PH1-GWC-3A	FALSE	96%
Benzene	PH1-GWC-4	FALSE	96%
Benzene	GWC-1	FALSE	96%
Benzene	PH1-GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	96%
cis-1,2-Dichloroethene	GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1	FALSE	96%
Tetrachloroethene	PH1-GWA-2	TRUE	96%
Tetrachloroethene	PH1-GWB-1	FALSE	96%
Tetrachloroethene	PH1-GWB-2	FALSE	96%
Tetrachloroethene	PH1-GWA-1A	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	PH1-GWC-2	TRUE	96%
Tetrachloroethene	PH1-GWC-3	TRUE	96%
Tetrachloroethene	PH1-GWC-3A	TRUE	96%
Tetrachloroethene	PH1-GWC-4	FALSE	96%
Tetrachloroethene	GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWC-1	FALSE	96%
Total Barium	PH1-GWA-1	FALSE	96%
Total Barium	PH1-GWA-1A	FALSE	96%
Total Barium	PH1-GWA-2	TRUE	96%
Total Barium	PH1-GWB-1	TRUE	96%
Total Barium	PH1-GWB-2	FALSE	96%
Total Barium	PH1-GWC-2	FALSE	96%
Total Barium	PH1-GWC-3	FALSE	96%
Total Barium	PH1-GWC-3A	FALSE	96%
Total Barium	PH1-GWC-4	FALSE	96%
Total Barium	GWC-1	TRUE	96%
Total Barium	PH1-GWC-1	TRUE	96%
Total Chromium	PH1-GWA-1	FALSE	96%
Total Chromium	PH1-GWA-1A	FALSE	96%
Total Chromium	PH1-GWA-2	FALSE	96%
Total Chromium	PH1-GWB-1	FALSE	96%
Total Chromium	PH1-GWB-2	FALSE	96%
Total Chromium	PH1-GWC-2	FALSE	96%
Total Chromium	PH1-GWC-3	FALSE	96%
Total Chromium	PH1-GWC-3A	FALSE	96%
Total Chromium	PH1-GWC-4	FALSE	96%
Total Chromium	GWC-1	FALSE	96%
Total Chromium	PH1-GWC-1	FALSE	96%
Total Cobalt	PH1-GWA-1	TRUE	96%
Total Cobalt	PH1-GWA-1A	FALSE	96%
Total Cobalt	PH1-GWA-2	FALSE	96%
Total Cobalt	PH1-GWB-1	FALSE	96%
Total Cobalt	PH1-GWB-2	FALSE	96%
Total Cobalt	PH1-GWC-2	FALSE	96%
Total Cobalt	PH1-GWC-3	FALSE	96%
Total Cobalt	PH1-GWC-3A	FALSE	96%
Total Cobalt	PH1-GWC-4	FALSE	96%
Total Cobalt	GWC-1	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	PH1-GWC-1	FALSE	96%
Total Copper	PH1-GWA-1	FALSE	96%
Total Copper	PH1-GWA-1A	FALSE	96%
Total Copper	PH1-GWA-2	FALSE	96%
Total Copper	PH1-GWB-1	FALSE	96%
Total Copper	PH1-GWB-2	FALSE	96%
Total Copper	PH1-GWC-2	FALSE	96%
Total Copper	PH1-GWC-3	FALSE	96%
Total Copper	PH1-GWC-3A	FALSE	96%
Total Copper	PH1-GWC-4	FALSE	96%
Total Copper	GWC-1	FALSE	96%
Total Copper	PH1-GWC-1	FALSE	96%
Total Nickel	PH1-GWA-1	FALSE	96%
Total Nickel	PH1-GWA-1A	FALSE	96%
Total Nickel	PH1-GWA-2	FALSE	96%
Total Nickel	PH1-GWB-1	FALSE	96%
Total Nickel	PH1-GWB-2	FALSE	96%
Total Nickel	PH1-GWC-2	FALSE	96%
Total Nickel	PH1-GWC-3	FALSE	96%
Total Nickel	PH1-GWC-3A	FALSE	96%
Total Nickel	PH1-GWC-4	FALSE	96%
Total Nickel	GWC-1	FALSE	96%
Total Nickel	PH1-GWC-1	FALSE	96%
Total Zinc	PH1-GWA-1	FALSE	96%
Total Zinc	PH1-GWA-1A	FALSE	96%
Total Zinc	PH1-GWA-2	FALSE	96%
Total Zinc	PH1-GWB-1	FALSE	96%
Total Zinc	PH1-GWB-2	FALSE	96%
Total Zinc	PH1-GWC-2	FALSE	96%
Total Zinc	PH1-GWC-3	FALSE	96%
Total Zinc	PH1-GWC-3A	FALSE	96%
Total Zinc	PH1-GWC-4	FALSE	96%
Total Zinc	GWC-1	FALSE	96%
Total Zinc	PH1-GWC-1	FALSE	96%
Trichloroethene	PH1-GWA-1	Pass KW	96%
Trichloroethene	PH1-GWA-2	TRUE	96%
Trichloroethene	PH1-GWB-1	FALSE	96%
Trichloroethene	PH1-GWB-2	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWA-1A	FALSE	96%
Trichloroethene	PH1-GWC-2	Pass KW	96%
Trichloroethene	PH1-GWC-3	TRUE	96%
Trichloroethene	PH1-GWC-3A	TRUE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

1,1-Dichloroethane

Non-Parametric Tolerance Interval

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 76.129%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/9/2014	ND<2	FALSE
PH1-GWA-1	12/10/2014	ND<2	FALSE
PH1-GWA-1	6/23/2015	ND<2	FALSE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	ND<2	FALSE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	ND<2	FALSE

PH1-GWA-2	6/9/2014	2	FALSE
PH1-GWA-2	12/10/2014	2	FALSE
PH1-GWA-2	6/22/2015	ND<2	FALSE
PH1-GWA-2	12/8/2015	ND<2	FALSE
PH1-GWA-2	6/13/2016	ND<2	FALSE
PH1-GWA-2	12/7/2016	ND<2	FALSE
PH1-GWA-2	6/15/2017	ND<2	FALSE
PH1-GWA-2	12/13/2017	ND<2	FALSE
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWA-2	12/9/2019	ND<2	FALSE

PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE

PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

1,1-Dichloroethane

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE

PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE

PH1-GWC-2	6/10/2014	3.4	TRUE
PH1-GWC-2	12/11/2014	3.5	TRUE
PH1-GWC-2	6/23/2015	3	TRUE
PH1-GWC-2	12/8/2015	3.7	TRUE
PH1-GWC-2	6/14/2016	3.1	TRUE
PH1-GWC-2	12/7/2016	3.2	TRUE
PH1-GWC-2	6/13/2017	3	TRUE
PH1-GWC-2	12/13/2017	3.4	TRUE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	2.8	TRUE
PH1-GWC-2	6/10/2019	3	TRUE
PH1-GWC-2	12/10/2019	3.7	TRUE

PH1-GWC-3	6/10/2014	2.1	TRUE
PH1-GWC-3	12/10/2014	2.3	TRUE
PH1-GWC-3	6/24/2015	2.4	TRUE
PH1-GWC-3	12/9/2015	2.7	TRUE
PH1-GWC-3	6/16/2016	3.3	TRUE
PH1-GWC-3	12/8/2016	3.6	TRUE
PH1-GWC-3	6/13/2017	2.7	TRUE
PH1-GWC-3	12/12/2017	3.6	TRUE
PH1-GWC-3	6/19/2018	3.2	TRUE
PH1-GWC-3	12/18/2018	2.7	TRUE
PH1-GWC-3	6/10/2019	3.3	TRUE
PH1-GWC-3	12/9/2019	4	TRUE

PH1-GWC-3A	6/10/2014	2.7	TRUE
PH1-GWC-3A	12/10/2014	3	TRUE
PH1-GWC-3A	6/24/2015	2.4	TRUE

1,1-Dichloroethane

PH1-GWC-3A	12/9/2015	2.6	TRUE
PH1-GWC-3A	6/16/2016	2.7	TRUE
PH1-GWC-3A	12/8/2016	2.8	TRUE
PH1-GWC-3A	6/13/2017	2	FALSE
PH1-GWC-3A	12/12/2017	2.6	TRUE
PH1-GWC-3A	6/19/2018	2.6	TRUE
PH1-GWC-3A	12/18/2018	2.3	TRUE
PH1-GWC-3A	6/10/2019	2.5	TRUE
PH1-GWC-3A	12/9/2019	3.1	TRUE

PH1-GWC-4	6/11/2014	ND<2	FALSE
PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE

GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE

PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE

Benzene

Non-Parametric Tolerance Interval

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.3548%
 Background measurements (n) = 24
 Maximum Background Concentration = 2
 Minimum Coverage = 88.3%
 Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/9/2014	ND<2	FALSE
PH1-GWA-1	12/10/2014	ND<2	FALSE
PH1-GWA-1	6/23/2015	ND<2	FALSE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	ND<2	FALSE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	ND<2	FALSE

PH1-GWA-2	6/9/2014	2	FALSE
PH1-GWA-2	12/10/2014	ND<2	FALSE
PH1-GWA-2	6/22/2015	ND<2	FALSE
PH1-GWA-2	12/8/2015	ND<2	FALSE
PH1-GWA-2	6/13/2016	ND<2	FALSE
PH1-GWA-2	12/7/2016	ND<2	FALSE
PH1-GWA-2	6/15/2017	ND<2	FALSE
PH1-GWA-2	12/13/2017	ND<2	FALSE
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWA-2	12/9/2019	ND<2	FALSE

PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE

PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

Benzene

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE

PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE

PH1-GWC-2	6/10/2014	ND<2	FALSE
PH1-GWC-2	12/11/2014	ND<2	FALSE
PH1-GWC-2	6/23/2015	ND<2	FALSE
PH1-GWC-2	12/8/2015	ND<2	FALSE
PH1-GWC-2	6/14/2016	ND<2	FALSE
PH1-GWC-2	12/7/2016	ND<2	FALSE
PH1-GWC-2	6/13/2017	ND<2	FALSE
PH1-GWC-2	12/13/2017	ND<2	FALSE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	ND<2	FALSE
PH1-GWC-2	6/10/2019	ND<2	FALSE
PH1-GWC-2	12/10/2019	ND<2	FALSE

PH1-GWC-3	6/10/2014	ND<2	FALSE
PH1-GWC-3	12/10/2014	ND<2	FALSE
PH1-GWC-3	6/24/2015	ND<2	FALSE
PH1-GWC-3	12/9/2015	ND<2	FALSE
PH1-GWC-3	6/16/2016	ND<2	FALSE
PH1-GWC-3	12/8/2016	ND<2	FALSE
PH1-GWC-3	6/13/2017	ND<2	FALSE
PH1-GWC-3	12/12/2017	ND<2	FALSE
PH1-GWC-3	6/19/2018	ND<2	FALSE
PH1-GWC-3	12/18/2018	ND<2	FALSE
PH1-GWC-3	6/10/2019	ND<2	FALSE
PH1-GWC-3	12/9/2019	ND<2	FALSE

PH1-GWC-3A	6/10/2014	ND<2	FALSE
PH1-GWC-3A	12/10/2014	ND<2	FALSE
PH1-GWC-3A	6/24/2015	ND<2	FALSE

Benzene

PH1-GWC-3A	12/9/2015	ND<2	FALSE
PH1-GWC-3A	6/16/2016	ND<2	FALSE
PH1-GWC-3A	12/8/2016	ND<2	FALSE
PH1-GWC-3A	6/13/2017	ND<2	FALSE
PH1-GWC-3A	12/12/2017	ND<2	FALSE
PH1-GWC-3A	6/19/2018	ND<2	FALSE
PH1-GWC-3A	12/18/2018	ND<2	FALSE
PH1-GWC-3A	6/10/2019	ND<2	FALSE
PH1-GWC-3A	12/9/2019	ND<2	FALSE

PH1-GWC-4	6/11/2014	ND<2	FALSE
PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE

GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE

PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE

cis-1,2-Dichloroethene

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 61.2903%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/9/2014	4.2	TRUE
PH1-GWA-1	12/10/2014	9	TRUE
PH1-GWA-1	6/23/2015	7.5	TRUE
PH1-GWA-1	12/8/2015	8	TRUE
PH1-GWA-1	6/14/2016	8.3	TRUE
PH1-GWA-1	12/7/2016	5	TRUE
PH1-GWA-1	6/13/2017	5.2	TRUE
PH1-GWA-1	12/13/2017	3.5	TRUE
PH1-GWA-1	6/19/2018	3.1	TRUE
PH1-GWA-1	12/18/2018	2.4	TRUE
PH1-GWA-1	6/10/2019	5.2	TRUE
PH1-GWA-1	12/9/2019	3.7	TRUE

PH1-GWA-2	6/9/2014	81	TRUE
PH1-GWA-2	12/10/2014	73	TRUE
PH1-GWA-2	6/22/2015	53	TRUE
PH1-GWA-2	12/8/2015	21	TRUE
PH1-GWA-2	6/13/2016	32	TRUE
PH1-GWA-2	12/7/2016	70	TRUE
PH1-GWA-2	6/15/2017	49	TRUE
PH1-GWA-2	12/13/2017	64	TRUE
PH1-GWA-2	6/18/2018	46	TRUE
PH1-GWA-2	12/18/2018	55	TRUE
PH1-GWA-2	6/11/2019	26	TRUE
PH1-GWA-2	12/9/2019	120	TRUE

PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE

PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

cis-1,2-Dichloroethene

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	2.6	TRUE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE

PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE

PH1-GWC-2	6/10/2014	ND<2	FALSE
PH1-GWC-2	12/11/2014	2	FALSE
PH1-GWC-2	6/23/2015	2	FALSE
PH1-GWC-2	12/8/2015	2.5	TRUE
PH1-GWC-2	6/14/2016	2.2	TRUE
PH1-GWC-2	12/7/2016	2.3	TRUE
PH1-GWC-2	6/13/2017	4.4	TRUE
PH1-GWC-2	12/13/2017	3.1	TRUE
PH1-GWC-2	6/19/2018	2.2	TRUE
PH1-GWC-2	12/18/2018	3.3	TRUE
PH1-GWC-2	6/10/2019	5.1	TRUE
PH1-GWC-2	12/10/2019	5.7	TRUE

PH1-GWC-3	6/10/2014	8.1	TRUE
PH1-GWC-3	12/10/2014	9	TRUE
PH1-GWC-3	6/24/2015	11	TRUE
PH1-GWC-3	12/9/2015	13	TRUE
PH1-GWC-3	6/16/2016	15	TRUE
PH1-GWC-3	12/8/2016	15	TRUE
PH1-GWC-3	6/13/2017	14	TRUE
PH1-GWC-3	12/12/2017	15	TRUE
PH1-GWC-3	6/19/2018	15	TRUE
PH1-GWC-3	12/18/2018	15	TRUE
PH1-GWC-3	6/10/2019	19	TRUE
PH1-GWC-3	12/9/2019	27	TRUE

PH1-GWC-3A	6/10/2014	8.9	TRUE
PH1-GWC-3A	12/10/2014	11	TRUE
PH1-GWC-3A	6/24/2015	9.3	TRUE

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PH1-GWC-3A	12/9/2015	10	TRUE
PH1-GWC-3A	6/16/2016	9.9	TRUE
PH1-GWC-3A	12/8/2016	11	TRUE
PH1-GWC-3A	6/13/2017	11	TRUE
PH1-GWC-3A	12/12/2017	10	TRUE
PH1-GWC-3A	6/19/2018	12	TRUE
PH1-GWC-3A	12/18/2018	9.2	TRUE
PH1-GWC-3A	6/10/2019	11	TRUE
PH1-GWC-3A	12/9/2019	16	TRUE

PH1-GWC-4	6/11/2014	ND<2	FALSE
PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE

GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE

PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE

Tetrachloroethene

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.6129%
 Background measurements (n) = 24
 Maximum Background Concentration = 2
 Minimum Coverage = 88.3%
 Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/9/2014	2.3	TRUE
PH1-GWA-1	12/10/2014	ND<2	FALSE
PH1-GWA-1	6/23/2015	ND<2	FALSE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	ND<2	FALSE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	2.1	TRUE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	ND<2	FALSE

PH1-GWA-2	6/9/2014	5.4	TRUE
PH1-GWA-2	12/10/2014	4.8	TRUE
PH1-GWA-2	6/22/2015	3.5	TRUE
PH1-GWA-2	12/8/2015	ND<2	FALSE
PH1-GWA-2	6/13/2016	ND<2	FALSE
PH1-GWA-2	12/7/2016	3.7	TRUE
PH1-GWA-2	6/15/2017	2.1	TRUE
PH1-GWA-2	12/13/2017	2.3	TRUE
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWA-2	12/9/2019	2.4	TRUE

PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE

PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

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PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE

PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE

PH1-GWC-2	6/10/2014	5.1	TRUE
PH1-GWC-2	12/11/2014	4.9	TRUE
PH1-GWC-2	6/23/2015	4.7	TRUE
PH1-GWC-2	12/8/2015	6.3	TRUE
PH1-GWC-2	6/14/2016	4	TRUE
PH1-GWC-2	12/7/2016	3.9	TRUE
PH1-GWC-2	6/13/2017	6.7	TRUE
PH1-GWC-2	12/13/2017	5.1	TRUE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	5.1	TRUE
PH1-GWC-2	6/10/2019	4.2	TRUE
PH1-GWC-2	12/10/2019	6.3	TRUE

PH1-GWC-3	6/10/2014	11	TRUE
PH1-GWC-3	12/10/2014	8.5	TRUE
PH1-GWC-3	6/24/2015	8.7	TRUE
PH1-GWC-3	12/9/2015	12	TRUE
PH1-GWC-3	6/16/2016	8.4	TRUE
PH1-GWC-3	12/8/2016	12	TRUE
PH1-GWC-3	6/13/2017	11	TRUE
PH1-GWC-3	12/12/2017	13	TRUE
PH1-GWC-3	6/19/2018	11	TRUE
PH1-GWC-3	12/18/2018	10	TRUE
PH1-GWC-3	6/10/2019	11	TRUE
PH1-GWC-3	12/9/2019	13	TRUE

PH1-GWC-3A	6/10/2014	13	TRUE
PH1-GWC-3A	12/10/2014	11	TRUE
PH1-GWC-3A	6/24/2015	8.5	TRUE

Tetrachloroethene

PH1-GWC-3A	12/9/2015	10	TRUE
PH1-GWC-3A	6/16/2016	6.7	TRUE
PH1-GWC-3A	12/8/2016	8.6	TRUE
PH1-GWC-3A	6/13/2017	8.9	TRUE
PH1-GWC-3A	12/12/2017	10	TRUE
PH1-GWC-3A	6/19/2018	11	TRUE
PH1-GWC-3A	12/18/2018	8.7	TRUE
PH1-GWC-3A	6/10/2019	8.8	TRUE
PH1-GWC-3A	12/9/2019	7.4	TRUE

PH1-GWC-4	6/11/2014	ND<2	FALSE
PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE

GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE

PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE

Total Barium

Non-Parametric Tolerance Interval

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 27.7419%

Background measurements (n) = 24

Maximum Background Concentration = 37

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/10/2014	ND<20	FALSE
PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	6/24/2015	21	FALSE
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	6/15/2016	21	FALSE
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	6/14/2017	21	FALSE
PH1-GWA-1	12/14/2017	20	FALSE
PH1-GWA-1	6/20/2018	34	FALSE
PH1-GWA-1	12/19/2018	24	FALSE
PH1-GWA-1	6/11/2019	24	FALSE
PH1-GWA-1	12/10/2019	20.3	FALSE

PH1-GWA-1A	6/10/2014	45	TRUE
PH1-GWA-1A	12/8/2014	27	FALSE
PH1-GWA-1A	6/23/2015	29	FALSE
PH1-GWA-1A	12/9/2015	30	FALSE
PH1-GWA-1A	6/14/2016	37	FALSE
PH1-GWA-1A	12/7/2016	21	FALSE
PH1-GWA-1A	6/12/2017	24	FALSE
PH1-GWA-1A	12/13/2017	27	FALSE
PH1-GWA-1A	6/20/2018	25	FALSE
PH1-GWA-1A	12/19/2018	27	FALSE
PH1-GWA-1A	6/11/2019	24	FALSE
PH1-GWA-1A	12/10/2019	23.4	FALSE

PH1-GWA-2	6/10/2014	90	TRUE
PH1-GWA-2	12/11/2014	88	TRUE
PH1-GWA-2	6/23/2015	82	TRUE
PH1-GWA-2	12/9/2015	74	TRUE
PH1-GWA-2	6/14/2016	85	TRUE
PH1-GWA-2	12/8/2016	110	TRUE
PH1-GWA-2	6/16/2017	80	TRUE
PH1-GWA-2	12/14/2017	80	TRUE
PH1-GWA-2	6/19/2018	61	TRUE
PH1-GWA-2	12/19/2018	81	TRUE
PH1-GWA-2	6/12/2019	84	TRUE
PH1-GWA-2	12/10/2019	84.2	TRUE

PH1-GWB-1	6/10/2014	66	TRUE
PH1-GWB-1	12/9/2014	72	TRUE

Total Barium

PH1-GWB-1	6/23/2015	78	TRUE
PH1-GWB-1	12/8/2015	75	TRUE
PH1-GWB-1	6/14/2016	84	TRUE
PH1-GWB-1	12/8/2016	75	TRUE
PH1-GWB-1	6/16/2017	52	TRUE
PH1-GWB-1	12/13/2017	54	TRUE
PH1-GWB-1	6/19/2018	62	TRUE
PH1-GWB-1	12/18/2018	53	TRUE
PH1-GWB-1	6/12/2019	82	TRUE
PH1-GWB-1	12/11/2019	67	TRUE

PH1-GWB-2	6/10/2014	ND<20	FALSE
PH1-GWB-2	12/12/2014	ND<20	FALSE
PH1-GWB-2	6/25/2015	ND<20	FALSE
PH1-GWB-2	12/9/2015	29	FALSE
PH1-GWB-2	6/14/2016	28	FALSE
PH1-GWB-2	12/9/2016	26	FALSE
PH1-GWB-2	6/16/2017	ND<20	FALSE
PH1-GWB-2	12/12/2017	ND<20	FALSE
PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	22	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWB-2	12/13/2019	ND<20	FALSE

PH1-GWC-2	6/11/2014	21	FALSE
PH1-GWC-2	12/11/2014	ND<20	FALSE
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	6/14/2017	51	TRUE
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	26	FALSE
PH1-GWC-2	6/10/2019	39	TRUE
PH1-GWC-2	12/10/2019	ND<20	FALSE

PH1-GWC-3	6/11/2014	ND<20	FALSE
PH1-GWC-3	12/11/2014	38	TRUE
PH1-GWC-3	6/25/2015	25	FALSE
PH1-GWC-3	12/10/2015	25	FALSE
PH1-GWC-3	6/17/2016	24	FALSE
PH1-GWC-3	12/9/2016	28	FALSE
PH1-GWC-3	6/14/2017	26	FALSE
PH1-GWC-3	12/13/2017	27	FALSE
PH1-GWC-3	6/20/2018	23	FALSE
PH1-GWC-3	12/19/2018	27	FALSE
PH1-GWC-3	6/11/2019	30	FALSE
PH1-GWC-3	12/10/2019	24.7	FALSE

PH1-GWC-3A	6/11/2014	40	TRUE
PH1-GWC-3A	12/11/2014	24	FALSE
PH1-GWC-3A	6/25/2015	28	FALSE

Total Barium

PH1-GWC-3A	12/10/2015	26	FALSE
PH1-GWC-3A	6/17/2016	29	FALSE
PH1-GWC-3A	12/9/2016	29	FALSE
PH1-GWC-3A	6/14/2017	29	FALSE
PH1-GWC-3A	12/13/2017	27	FALSE
PH1-GWC-3A	6/28/2018	26	FALSE
PH1-GWC-3A	12/19/2018	24	FALSE
PH1-GWC-3A	6/11/2019	30	FALSE
PH1-GWC-3A	12/10/2019	24.9	FALSE

PH1-GWC-4	6/12/2014	32	FALSE
PH1-GWC-4	12/12/2014	51	TRUE
PH1-GWC-4	6/25/2015	34	FALSE
PH1-GWC-4	12/8/2015	36	FALSE
PH1-GWC-4	6/14/2016	41	TRUE
PH1-GWC-4	12/9/2016	80	TRUE
PH1-GWC-4	6/16/2017	42	TRUE
PH1-GWC-4	12/12/2017	54	TRUE
PH1-GWC-4	6/20/2018	34	FALSE
PH1-GWC-4	12/20/2018	310	TRUE
PH1-GWC-4	6/13/2019	32	FALSE

GWC-1	6/13/2014	86	TRUE
GWC-1	12/12/2014	130	TRUE
GWC-1	6/25/2015	99	TRUE
GWC-1	12/10/2015	89	TRUE
GWC-1	6/15/2016	92	TRUE
GWC-1	12/9/2016	100	TRUE
GWC-1	6/14/2017	92	TRUE
GWC-1	12/14/2017	88	TRUE
GWC-1	6/20/2018	94	TRUE
GWC-1	12/18/2018	150	TRUE
GWC-1	6/13/2019	93	TRUE
GWC-1	12/11/2019	85.2	TRUE

PH1-GWC-1	6/13/2014	27	FALSE
PH1-GWC-1	12/12/2014	33	FALSE
PH1-GWC-1	6/25/2015	58	TRUE
PH1-GWC-1	12/9/2015	41	TRUE
PH1-GWC-1	6/16/2016	54	TRUE
PH1-GWC-1	12/9/2016	70	TRUE
PH1-GWC-1	6/16/2017	40	TRUE
PH1-GWC-1	12/12/2017	38	TRUE
PH1-GWC-1	6/20/2018	42	TRUE
PH1-GWC-1	12/20/2018	47	TRUE
PH1-GWC-1	6/13/2019	50	TRUE
PH1-GWC-1	12/12/2019	43.7	TRUE

Total Chromium

Non-Parametric Tolerance Interval

Parameter: Total Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.4839%

Background measurements (n) = 24

Maximum Background Concentration = 10

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/10/2014	ND<10	FALSE
PH1-GWA-1	12/11/2014	ND<10	FALSE
PH1-GWA-1	6/24/2015	ND<10	FALSE
PH1-GWA-1	12/9/2015	ND<10	FALSE
PH1-GWA-1	6/15/2016	ND<10	FALSE
PH1-GWA-1	12/8/2016	ND<10	FALSE
PH1-GWA-1	6/14/2017	ND<10	FALSE
PH1-GWA-1	12/14/2017	ND<10	FALSE
PH1-GWA-1	6/20/2018	ND<10	FALSE
PH1-GWA-1	12/19/2018	ND<10	FALSE
PH1-GWA-1	6/11/2019	ND<10	FALSE
PH1-GWA-1	12/10/2019	ND<10	FALSE

PH1-GWA-1A	6/10/2014	ND<10	FALSE
PH1-GWA-1A	12/8/2014	ND<10	FALSE
PH1-GWA-1A	6/23/2015	ND<10	FALSE
PH1-GWA-1A	12/9/2015	10	FALSE
PH1-GWA-1A	6/14/2016	28	TRUE
PH1-GWA-1A	12/7/2016	ND<10	FALSE
PH1-GWA-1A	6/12/2017	ND<10	FALSE
PH1-GWA-1A	12/13/2017	ND<10	FALSE
PH1-GWA-1A	6/20/2018	ND<10	FALSE
PH1-GWA-1A	12/19/2018	ND<10	FALSE
PH1-GWA-1A	6/11/2019	11	TRUE
PH1-GWA-1A	12/10/2019	ND<10	FALSE

PH1-GWA-2	6/10/2014	ND<10	FALSE
PH1-GWA-2	12/11/2014	74	TRUE
PH1-GWA-2	6/23/2015	ND<10	FALSE
PH1-GWA-2	12/9/2015	ND<10	FALSE
PH1-GWA-2	6/14/2016	ND<10	FALSE
PH1-GWA-2	12/8/2016	ND<10	FALSE
PH1-GWA-2	6/16/2017	ND<10	FALSE
PH1-GWA-2	12/14/2017	ND<10	FALSE
PH1-GWA-2	6/19/2018	ND<10	FALSE
PH1-GWA-2	12/19/2018	ND<10	FALSE
PH1-GWA-2	6/12/2019	ND<10	FALSE
PH1-GWA-2	12/10/2019	ND<10	FALSE

PH1-GWB-1	6/10/2014	ND<10	FALSE
PH1-GWB-1	12/9/2014	ND<10	FALSE

Total Chromium

PH1-GWB-1	6/23/2015	ND<10	FALSE
PH1-GWB-1	12/8/2015	ND<10	FALSE
PH1-GWB-1	6/14/2016	ND<10	FALSE
PH1-GWB-1	12/8/2016	ND<10	FALSE
PH1-GWB-1	6/16/2017	ND<10	FALSE
PH1-GWB-1	12/13/2017	ND<10	FALSE
PH1-GWB-1	6/19/2018	ND<10	FALSE
PH1-GWB-1	12/18/2018	ND<10	FALSE
PH1-GWB-1	6/12/2019	ND<10	FALSE
PH1-GWB-1	12/11/2019	ND<10	FALSE

PH1-GWB-2	6/10/2014	ND<10	FALSE
PH1-GWB-2	12/12/2014	ND<10	FALSE
PH1-GWB-2	6/25/2015	ND<10	FALSE
PH1-GWB-2	12/9/2015	ND<10	FALSE
PH1-GWB-2	6/14/2016	ND<10	FALSE
PH1-GWB-2	12/9/2016	ND<10	FALSE
PH1-GWB-2	6/16/2017	ND<10	FALSE
PH1-GWB-2	12/12/2017	ND<10	FALSE
PH1-GWB-2	6/20/2018	ND<10	FALSE
PH1-GWB-2	12/18/2018	ND<10	FALSE
PH1-GWB-2	6/13/2019	ND<10	FALSE
PH1-GWB-2	12/13/2019	ND<10	FALSE

PH1-GWC-2	6/11/2014	ND<10	FALSE
PH1-GWC-2	12/11/2014	ND<10	FALSE
PH1-GWC-2	6/23/2015	ND<10	FALSE
PH1-GWC-2	12/8/2015	ND<10	FALSE
PH1-GWC-2	6/14/2016	ND<10	FALSE
PH1-GWC-2	12/7/2016	ND<10	FALSE
PH1-GWC-2	6/14/2017	ND<10	FALSE
PH1-GWC-2	12/13/2017	ND<10	FALSE
PH1-GWC-2	6/19/2018	12	TRUE
PH1-GWC-2	12/18/2018	ND<10	FALSE
PH1-GWC-2	6/10/2019	69	TRUE
PH1-GWC-2	12/10/2019	ND<10	FALSE

PH1-GWC-3	6/11/2014	ND<10	FALSE
PH1-GWC-3	12/11/2014	ND<10	FALSE
PH1-GWC-3	6/25/2015	ND<10	FALSE
PH1-GWC-3	12/10/2015	ND<10	FALSE
PH1-GWC-3	6/17/2016	ND<10	FALSE
PH1-GWC-3	12/9/2016	ND<10	FALSE
PH1-GWC-3	6/14/2017	ND<10	FALSE
PH1-GWC-3	12/13/2017	ND<10	FALSE
PH1-GWC-3	6/20/2018	ND<10	FALSE
PH1-GWC-3	12/19/2018	ND<10	FALSE
PH1-GWC-3	6/11/2019	ND<10	FALSE
PH1-GWC-3	12/10/2019	ND<10	FALSE

PH1-GWC-3A	6/11/2014	ND<10	FALSE
PH1-GWC-3A	12/11/2014	ND<10	FALSE
PH1-GWC-3A	6/25/2015	ND<10	FALSE

Total Chromium

PH1-GWC-3A	12/10/2015	ND<10	FALSE
PH1-GWC-3A	6/17/2016	ND<10	FALSE
PH1-GWC-3A	12/9/2016	ND<10	FALSE
PH1-GWC-3A	6/14/2017	ND<10	FALSE
PH1-GWC-3A	12/13/2017	ND<10	FALSE
PH1-GWC-3A	6/28/2018	ND<10	FALSE
PH1-GWC-3A	12/19/2018	ND<10	FALSE
PH1-GWC-3A	6/11/2019	ND<10	FALSE
PH1-GWC-3A	12/10/2019	ND<10	FALSE

PH1-GWC-4	6/12/2014	ND<10	FALSE
PH1-GWC-4	12/12/2014	ND<10	FALSE
PH1-GWC-4	6/25/2015	ND<10	FALSE
PH1-GWC-4	12/8/2015	ND<10	FALSE
PH1-GWC-4	6/14/2016	ND<10	FALSE
PH1-GWC-4	12/9/2016	ND<10	FALSE
PH1-GWC-4	6/16/2017	ND<10	FALSE
PH1-GWC-4	12/12/2017	ND<10	FALSE
PH1-GWC-4	6/20/2018	ND<10	FALSE
PH1-GWC-4	12/20/2018	49	TRUE
PH1-GWC-4	6/13/2019	ND<10	FALSE

GWC-1	6/13/2014	ND<10	FALSE
GWC-1	12/12/2014	ND<10	FALSE
GWC-1	6/25/2015	ND<10	FALSE
GWC-1	12/10/2015	ND<10	FALSE
GWC-1	6/15/2016	ND<10	FALSE
GWC-1	12/9/2016	ND<10	FALSE
GWC-1	6/14/2017	ND<10	FALSE
GWC-1	12/14/2017	ND<10	FALSE
GWC-1	6/20/2018	ND<10	FALSE
GWC-1	12/18/2018	ND<10	FALSE
GWC-1	6/13/2019	ND<10	FALSE
GWC-1	12/11/2019	ND<10	FALSE

PH1-GWC-1	6/13/2014	ND<10	FALSE
PH1-GWC-1	12/12/2014	ND<10	FALSE
PH1-GWC-1	6/25/2015	ND<10	FALSE
PH1-GWC-1	12/9/2015	ND<10	FALSE
PH1-GWC-1	6/16/2016	ND<10	FALSE
PH1-GWC-1	12/9/2016	ND<10	FALSE
PH1-GWC-1	6/16/2017	ND<10	FALSE
PH1-GWC-1	12/12/2017	ND<10	FALSE
PH1-GWC-1	6/20/2018	ND<10	FALSE
PH1-GWC-1	12/20/2018	ND<10	FALSE
PH1-GWC-1	6/13/2019	ND<10	FALSE
PH1-GWC-1	12/12/2019	ND<10	FALSE

Total Cobalt

Non-Parametric Tolerance Interval

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.2581%

Background measurements (n) = 24

Maximum Background Concentration = 40

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/10/2014	92	TRUE
PH1-GWA-1	12/11/2014	96	TRUE
PH1-GWA-1	6/24/2015	120	TRUE
PH1-GWA-1	12/9/2015	95	TRUE
PH1-GWA-1	6/15/2016	110	TRUE
PH1-GWA-1	12/8/2016	94	TRUE
PH1-GWA-1	6/14/2017	100	TRUE
PH1-GWA-1	12/14/2017	76	TRUE
PH1-GWA-1	6/20/2018	75	TRUE
PH1-GWA-1	12/19/2018	82	TRUE
PH1-GWA-1	6/11/2019	91	TRUE
PH1-GWA-1	12/10/2019	90.1	TRUE

PH1-GWA-1A	6/10/2014	ND<40	FALSE
PH1-GWA-1A	12/8/2014	ND<40	FALSE
PH1-GWA-1A	6/23/2015	ND<40	FALSE
PH1-GWA-1A	12/9/2015	ND<40	FALSE
PH1-GWA-1A	6/14/2016	ND<40	FALSE
PH1-GWA-1A	12/7/2016	ND<40	FALSE
PH1-GWA-1A	6/12/2017	ND<40	FALSE
PH1-GWA-1A	12/13/2017	ND<40	FALSE
PH1-GWA-1A	6/20/2018	ND<40	FALSE
PH1-GWA-1A	12/19/2018	ND<40	FALSE
PH1-GWA-1A	6/11/2019	ND<40	FALSE
PH1-GWA-1A	12/10/2019	ND<40	FALSE

PH1-GWA-2	6/10/2014	ND<40	FALSE
PH1-GWA-2	12/11/2014	ND<40	FALSE
PH1-GWA-2	6/23/2015	ND<40	FALSE
PH1-GWA-2	12/9/2015	ND<40	FALSE
PH1-GWA-2	6/14/2016	ND<40	FALSE
PH1-GWA-2	12/8/2016	ND<40	FALSE
PH1-GWA-2	6/16/2017	ND<40	FALSE
PH1-GWA-2	12/14/2017	ND<40	FALSE
PH1-GWA-2	6/19/2018	ND<40	FALSE
PH1-GWA-2	12/19/2018	ND<40	FALSE
PH1-GWA-2	6/12/2019	ND<40	FALSE
PH1-GWA-2	12/10/2019	ND<40	FALSE

PH1-GWB-1	6/10/2014	ND<40	FALSE
PH1-GWB-1	12/9/2014	ND<40	FALSE

Total Cobalt

PH1-GWB-1	6/23/2015	ND<40	FALSE
PH1-GWB-1	12/8/2015	ND<40	FALSE
PH1-GWB-1	6/14/2016	ND<40	FALSE
PH1-GWB-1	12/8/2016	ND<40	FALSE
PH1-GWB-1	6/16/2017	ND<40	FALSE
PH1-GWB-1	12/13/2017	ND<40	FALSE
PH1-GWB-1	6/19/2018	ND<40	FALSE
PH1-GWB-1	12/18/2018	ND<40	FALSE
PH1-GWB-1	6/12/2019	ND<40	FALSE
PH1-GWB-1	12/11/2019	ND<40	FALSE

PH1-GWB-2	6/10/2014	ND<40	FALSE
PH1-GWB-2	12/12/2014	ND<40	FALSE
PH1-GWB-2	6/25/2015	ND<40	FALSE
PH1-GWB-2	12/9/2015	ND<40	FALSE
PH1-GWB-2	6/14/2016	ND<40	FALSE
PH1-GWB-2	12/9/2016	ND<40	FALSE
PH1-GWB-2	6/16/2017	ND<40	FALSE
PH1-GWB-2	12/12/2017	ND<40	FALSE
PH1-GWB-2	6/20/2018	ND<40	FALSE
PH1-GWB-2	12/18/2018	ND<40	FALSE
PH1-GWB-2	6/13/2019	ND<40	FALSE
PH1-GWB-2	12/13/2019	ND<40	FALSE

PH1-GWC-2	6/11/2014	ND<40	FALSE
PH1-GWC-2	12/11/2014	ND<40	FALSE
PH1-GWC-2	6/23/2015	ND<40	FALSE
PH1-GWC-2	12/8/2015	ND<40	FALSE
PH1-GWC-2	6/14/2016	ND<40	FALSE
PH1-GWC-2	12/7/2016	ND<40	FALSE
PH1-GWC-2	6/14/2017	ND<40	FALSE
PH1-GWC-2	12/13/2017	ND<40	FALSE
PH1-GWC-2	6/19/2018	ND<40	FALSE
PH1-GWC-2	12/18/2018	ND<40	FALSE
PH1-GWC-2	6/10/2019	ND<40	FALSE
PH1-GWC-2	12/10/2019	ND<40	FALSE

PH1-GWC-3	6/11/2014	ND<40	FALSE
PH1-GWC-3	12/11/2014	ND<40	FALSE
PH1-GWC-3	6/25/2015	ND<40	FALSE
PH1-GWC-3	12/10/2015	ND<40	FALSE
PH1-GWC-3	6/17/2016	ND<40	FALSE
PH1-GWC-3	12/9/2016	ND<40	FALSE
PH1-GWC-3	6/14/2017	ND<40	FALSE
PH1-GWC-3	12/13/2017	ND<40	FALSE
PH1-GWC-3	6/20/2018	ND<40	FALSE
PH1-GWC-3	12/19/2018	ND<40	FALSE
PH1-GWC-3	6/11/2019	ND<40	FALSE
PH1-GWC-3	12/10/2019	ND<40	FALSE

PH1-GWC-3A	6/11/2014	ND<40	FALSE
PH1-GWC-3A	12/11/2014	ND<40	FALSE
PH1-GWC-3A	6/25/2015	ND<40	FALSE

Total Cobalt

PH1-GWC-3A	12/10/2015	ND<40	FALSE
PH1-GWC-3A	6/17/2016	ND<40	FALSE
PH1-GWC-3A	12/9/2016	ND<40	FALSE
PH1-GWC-3A	6/14/2017	ND<40	FALSE
PH1-GWC-3A	12/13/2017	ND<40	FALSE
PH1-GWC-3A	6/28/2018	ND<40	FALSE
PH1-GWC-3A	12/19/2018	ND<40	FALSE
PH1-GWC-3A	6/11/2019	ND<40	FALSE
PH1-GWC-3A	12/10/2019	ND<40	FALSE

PH1-GWC-4	6/12/2014	ND<40	FALSE
PH1-GWC-4	12/12/2014	ND<40	FALSE
PH1-GWC-4	6/25/2015	ND<40	FALSE
PH1-GWC-4	12/8/2015	ND<40	FALSE
PH1-GWC-4	6/14/2016	ND<40	FALSE
PH1-GWC-4	12/9/2016	ND<40	FALSE
PH1-GWC-4	6/16/2017	ND<40	FALSE
PH1-GWC-4	12/12/2017	ND<40	FALSE
PH1-GWC-4	6/20/2018	ND<40	FALSE
PH1-GWC-4	12/20/2018	ND<40	FALSE
PH1-GWC-4	6/13/2019	ND<40	FALSE

GWC-1	6/13/2014	ND<40	FALSE
GWC-1	12/12/2014	ND<40	FALSE
GWC-1	6/25/2015	ND<40	FALSE
GWC-1	12/10/2015	ND<40	FALSE
GWC-1	6/15/2016	ND<40	FALSE
GWC-1	12/9/2016	ND<40	FALSE
GWC-1	6/14/2017	ND<40	FALSE
GWC-1	12/14/2017	ND<40	FALSE
GWC-1	6/20/2018	ND<40	FALSE
GWC-1	12/18/2018	ND<40	FALSE
GWC-1	6/13/2019	ND<40	FALSE
GWC-1	12/11/2019	ND<40	FALSE

PH1-GWC-1	6/13/2014	ND<40	FALSE
PH1-GWC-1	12/12/2014	ND<40	FALSE
PH1-GWC-1	6/25/2015	ND<40	FALSE
PH1-GWC-1	12/9/2015	ND<40	FALSE
PH1-GWC-1	6/16/2016	ND<40	FALSE
PH1-GWC-1	12/9/2016	ND<40	FALSE
PH1-GWC-1	6/16/2017	ND<40	FALSE
PH1-GWC-1	12/12/2017	ND<40	FALSE
PH1-GWC-1	6/20/2018	ND<40	FALSE
PH1-GWC-1	12/20/2018	ND<40	FALSE
PH1-GWC-1	6/13/2019	ND<40	FALSE
PH1-GWC-1	12/12/2019	ND<40	FALSE

Total Copper

Non-Parametric Tolerance Interval

Parameter: Total Copper

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.4839%

Background measurements (n) = 24

Maximum Background Concentration = 20.7

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/10/2014	ND<20	FALSE
PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	6/24/2015	ND<20	FALSE
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	6/15/2016	ND<20	FALSE
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	6/14/2017	32	TRUE
PH1-GWA-1	12/14/2017	ND<20	FALSE
PH1-GWA-1	6/20/2018	ND<20	FALSE
PH1-GWA-1	12/19/2018	ND<20	FALSE
PH1-GWA-1	6/11/2019	ND<20	FALSE
PH1-GWA-1	12/10/2019	ND<20	FALSE

PH1-GWA-1A	6/10/2014	ND<20	FALSE
PH1-GWA-1A	12/8/2014	ND<20	FALSE
PH1-GWA-1A	6/23/2015	ND<20	FALSE
PH1-GWA-1A	12/9/2015	ND<20	FALSE
PH1-GWA-1A	6/14/2016	ND<20	FALSE
PH1-GWA-1A	12/7/2016	ND<20	FALSE
PH1-GWA-1A	6/12/2017	ND<20	FALSE
PH1-GWA-1A	12/13/2017	ND<20	FALSE
PH1-GWA-1A	6/20/2018	ND<20	FALSE
PH1-GWA-1A	12/19/2018	ND<20	FALSE
PH1-GWA-1A	6/11/2019	ND<20	FALSE
PH1-GWA-1A	12/10/2019	ND<20	FALSE

PH1-GWA-2	6/10/2014	ND<20	FALSE
PH1-GWA-2	12/11/2014	ND<20	FALSE
PH1-GWA-2	6/23/2015	ND<20	FALSE
PH1-GWA-2	12/9/2015	23	TRUE
PH1-GWA-2	6/14/2016	24	TRUE
PH1-GWA-2	12/8/2016	ND<20	FALSE
PH1-GWA-2	6/16/2017	ND<20	FALSE
PH1-GWA-2	12/14/2017	ND<20	FALSE
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	12/19/2018	ND<20	FALSE
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWA-2	12/10/2019	ND<20	FALSE

PH1-GWB-1	6/10/2014	ND<20	FALSE
PH1-GWB-1	12/9/2014	ND<20	FALSE

Total Copper

PH1-GWB-1	6/23/2015	ND<20	FALSE
PH1-GWB-1	12/8/2015	ND<20	FALSE
PH1-GWB-1	6/14/2016	ND<20	FALSE
PH1-GWB-1	12/8/2016	ND<20	FALSE
PH1-GWB-1	6/16/2017	ND<20	FALSE
PH1-GWB-1	12/13/2017	ND<20	FALSE
PH1-GWB-1	6/19/2018	ND<20	FALSE
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	6/12/2019	ND<20	FALSE
PH1-GWB-1	12/11/2019	ND<20	FALSE

PH1-GWB-2	6/10/2014	ND<20	FALSE
PH1-GWB-2	12/12/2014	ND<20	FALSE
PH1-GWB-2	6/25/2015	ND<20	FALSE
PH1-GWB-2	12/9/2015	ND<20	FALSE
PH1-GWB-2	6/14/2016	27	TRUE
PH1-GWB-2	12/9/2016	ND<20	FALSE
PH1-GWB-2	6/16/2017	24	TRUE
PH1-GWB-2	12/12/2017	ND<20	FALSE
PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	ND<20	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWB-2	12/13/2019	ND<20	FALSE

PH1-GWC-2	6/11/2014	ND<20	FALSE
PH1-GWC-2	12/11/2014	ND<20	FALSE
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	6/14/2017	ND<20	FALSE
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	6/10/2019	ND<20	FALSE
PH1-GWC-2	12/10/2019	ND<20	FALSE

PH1-GWC-3	6/11/2014	ND<20	FALSE
PH1-GWC-3	12/11/2014	ND<20	FALSE
PH1-GWC-3	6/25/2015	ND<20	FALSE
PH1-GWC-3	12/10/2015	ND<20	FALSE
PH1-GWC-3	6/17/2016	ND<20	FALSE
PH1-GWC-3	12/9/2016	ND<20	FALSE
PH1-GWC-3	6/14/2017	ND<20	FALSE
PH1-GWC-3	12/13/2017	ND<20	FALSE
PH1-GWC-3	6/20/2018	ND<20	FALSE
PH1-GWC-3	12/19/2018	ND<20	FALSE
PH1-GWC-3	6/11/2019	ND<20	FALSE
PH1-GWC-3	12/10/2019	ND<20	FALSE

PH1-GWC-3A	6/11/2014	ND<20	FALSE
PH1-GWC-3A	12/11/2014	ND<20	FALSE
PH1-GWC-3A	6/25/2015	ND<20	FALSE

Total Copper

PH1-GWC-3A	12/10/2015	ND<20	FALSE
PH1-GWC-3A	6/17/2016	ND<20	FALSE
PH1-GWC-3A	12/9/2016	ND<20	FALSE
PH1-GWC-3A	6/14/2017	ND<20	FALSE
PH1-GWC-3A	12/13/2017	ND<20	FALSE
PH1-GWC-3A	6/28/2018	ND<20	FALSE
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/10/2019	ND<20	FALSE

PH1-GWC-4	6/12/2014	ND<20	FALSE
PH1-GWC-4	12/12/2014	ND<20	FALSE
PH1-GWC-4	6/25/2015	ND<20	FALSE
PH1-GWC-4	12/8/2015	ND<20	FALSE
PH1-GWC-4	6/14/2016	ND<20	FALSE
PH1-GWC-4	12/9/2016	ND<20	FALSE
PH1-GWC-4	6/16/2017	ND<20	FALSE
PH1-GWC-4	12/12/2017	ND<20	FALSE
PH1-GWC-4	6/20/2018	ND<20	FALSE
PH1-GWC-4	12/20/2018	41	TRUE
PH1-GWC-4	6/13/2019	ND<20	FALSE

GWC-1	6/13/2014	ND<20	FALSE
GWC-1	12/12/2014	ND<20	FALSE
GWC-1	6/25/2015	ND<20	FALSE
GWC-1	12/10/2015	ND<20	FALSE
GWC-1	6/15/2016	ND<20	FALSE
GWC-1	12/9/2016	ND<20	FALSE
GWC-1	6/14/2017	ND<20	FALSE
GWC-1	12/14/2017	ND<20	FALSE
GWC-1	6/20/2018	ND<20	FALSE
GWC-1	12/18/2018	ND<20	FALSE
GWC-1	6/13/2019	ND<20	FALSE
GWC-1	12/11/2019	ND<20	FALSE

PH1-GWC-1	6/13/2014	ND<20	FALSE
PH1-GWC-1	12/12/2014	ND<20	FALSE
PH1-GWC-1	6/25/2015	ND<20	FALSE
PH1-GWC-1	12/9/2015	ND<20	FALSE
PH1-GWC-1	6/16/2016	ND<20	FALSE
PH1-GWC-1	12/9/2016	ND<20	FALSE
PH1-GWC-1	6/16/2017	ND<20	FALSE
PH1-GWC-1	12/12/2017	ND<20	FALSE
PH1-GWC-1	6/20/2018	ND<20	FALSE
PH1-GWC-1	12/20/2018	ND<20	FALSE
PH1-GWC-1	6/13/2019	ND<20	FALSE
PH1-GWC-1	12/12/2019	ND<20	FALSE

Total Nickel

Non-Parametric Tolerance Interval

Parameter: Total Nickel

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.0645%

Background measurements (n) = 24

Maximum Background Concentration = 20

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/10/2014	ND<20	FALSE
PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	6/24/2015	ND<20	FALSE
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	6/15/2016	ND<20	FALSE
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	6/14/2017	ND<20	FALSE
PH1-GWA-1	12/14/2017	ND<20	FALSE
PH1-GWA-1	6/20/2018	ND<20	FALSE
PH1-GWA-1	12/19/2018	ND<20	FALSE
PH1-GWA-1	6/11/2019	ND<20	FALSE
PH1-GWA-1	12/10/2019	ND<20	FALSE

PH1-GWA-1A	6/10/2014	ND<20	FALSE
PH1-GWA-1A	12/8/2014	ND<20	FALSE
PH1-GWA-1A	6/23/2015	ND<20	FALSE
PH1-GWA-1A	12/9/2015	ND<20	FALSE
PH1-GWA-1A	6/14/2016	ND<20	FALSE
PH1-GWA-1A	12/7/2016	ND<20	FALSE
PH1-GWA-1A	6/12/2017	ND<20	FALSE
PH1-GWA-1A	12/13/2017	ND<20	FALSE
PH1-GWA-1A	6/20/2018	ND<20	FALSE
PH1-GWA-1A	12/19/2018	ND<20	FALSE
PH1-GWA-1A	6/11/2019	ND<20	FALSE
PH1-GWA-1A	12/10/2019	ND<20	FALSE

PH1-GWA-2	6/10/2014	ND<20	FALSE
PH1-GWA-2	12/11/2014	42	TRUE
PH1-GWA-2	6/23/2015	ND<20	FALSE
PH1-GWA-2	12/9/2015	ND<20	FALSE
PH1-GWA-2	6/14/2016	ND<20	FALSE
PH1-GWA-2	12/8/2016	ND<20	FALSE
PH1-GWA-2	6/16/2017	ND<20	FALSE
PH1-GWA-2	12/14/2017	ND<20	FALSE
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	12/19/2018	ND<20	FALSE
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWA-2	12/10/2019	ND<20	FALSE

PH1-GWB-1	6/10/2014	ND<20	FALSE
PH1-GWB-1	12/9/2014	ND<20	FALSE

Total Nickel

PH1-GWB-1	6/23/2015	ND<20	FALSE
PH1-GWB-1	12/8/2015	ND<20	FALSE
PH1-GWB-1	6/14/2016	ND<20	FALSE
PH1-GWB-1	12/8/2016	ND<20	FALSE
PH1-GWB-1	6/16/2017	ND<20	FALSE
PH1-GWB-1	12/13/2017	ND<20	FALSE
PH1-GWB-1	6/19/2018	ND<20	FALSE
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	6/12/2019	ND<20	FALSE
PH1-GWB-1	12/11/2019	ND<20	FALSE

PH1-GWB-2	6/10/2014	ND<20	FALSE
PH1-GWB-2	12/12/2014	ND<20	FALSE
PH1-GWB-2	6/25/2015	ND<20	FALSE
PH1-GWB-2	12/9/2015	ND<20	FALSE
PH1-GWB-2	6/14/2016	ND<20	FALSE
PH1-GWB-2	12/9/2016	ND<20	FALSE
PH1-GWB-2	6/16/2017	ND<20	FALSE
PH1-GWB-2	12/12/2017	ND<20	FALSE
PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	ND<20	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWB-2	12/13/2019	ND<20	FALSE

PH1-GWC-2	6/11/2014	ND<20	FALSE
PH1-GWC-2	12/11/2014	ND<20	FALSE
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	6/14/2017	ND<20	FALSE
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	6/10/2019	51	TRUE
PH1-GWC-2	12/10/2019	ND<20	FALSE

PH1-GWC-3	6/11/2014	ND<20	FALSE
PH1-GWC-3	12/11/2014	ND<20	FALSE
PH1-GWC-3	6/25/2015	ND<20	FALSE
PH1-GWC-3	12/10/2015	ND<20	FALSE
PH1-GWC-3	6/17/2016	ND<20	FALSE
PH1-GWC-3	12/9/2016	ND<20	FALSE
PH1-GWC-3	6/14/2017	ND<20	FALSE
PH1-GWC-3	12/13/2017	ND<20	FALSE
PH1-GWC-3	6/20/2018	ND<20	FALSE
PH1-GWC-3	12/19/2018	ND<20	FALSE
PH1-GWC-3	6/11/2019	ND<20	FALSE
PH1-GWC-3	12/10/2019	ND<20	FALSE

PH1-GWC-3A	6/11/2014	ND<20	FALSE
PH1-GWC-3A	12/11/2014	ND<20	FALSE
PH1-GWC-3A	6/25/2015	ND<20	FALSE

Total Nickel

PH1-GWC-3A	12/10/2015	ND<20	FALSE
PH1-GWC-3A	6/17/2016	ND<20	FALSE
PH1-GWC-3A	12/9/2016	ND<20	FALSE
PH1-GWC-3A	6/14/2017	ND<20	FALSE
PH1-GWC-3A	12/13/2017	ND<20	FALSE
PH1-GWC-3A	6/28/2018	ND<20	FALSE
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/10/2019	ND<20	FALSE

PH1-GWC-4	6/12/2014	ND<20	FALSE
PH1-GWC-4	12/12/2014	ND<20	FALSE
PH1-GWC-4	6/25/2015	ND<20	FALSE
PH1-GWC-4	12/8/2015	ND<20	FALSE
PH1-GWC-4	6/14/2016	ND<20	FALSE
PH1-GWC-4	12/9/2016	ND<20	FALSE
PH1-GWC-4	6/16/2017	ND<20	FALSE
PH1-GWC-4	12/12/2017	ND<20	FALSE
PH1-GWC-4	6/20/2018	ND<20	FALSE
PH1-GWC-4	12/20/2018	31	TRUE
PH1-GWC-4	6/13/2019	ND<20	FALSE

GWC-1	6/13/2014	ND<20	FALSE
GWC-1	12/12/2014	ND<20	FALSE
GWC-1	6/25/2015	ND<20	FALSE
GWC-1	12/10/2015	ND<20	FALSE
GWC-1	6/15/2016	ND<20	FALSE
GWC-1	12/9/2016	ND<20	FALSE
GWC-1	6/14/2017	ND<20	FALSE
GWC-1	12/14/2017	ND<20	FALSE
GWC-1	6/20/2018	ND<20	FALSE
GWC-1	12/18/2018	ND<20	FALSE
GWC-1	6/13/2019	ND<20	FALSE
GWC-1	12/11/2019	ND<20	FALSE

PH1-GWC-1	6/13/2014	ND<20	FALSE
PH1-GWC-1	12/12/2014	ND<20	FALSE
PH1-GWC-1	6/25/2015	ND<20	FALSE
PH1-GWC-1	12/9/2015	ND<20	FALSE
PH1-GWC-1	6/16/2016	ND<20	FALSE
PH1-GWC-1	12/9/2016	ND<20	FALSE
PH1-GWC-1	6/16/2017	ND<20	FALSE
PH1-GWC-1	12/12/2017	ND<20	FALSE
PH1-GWC-1	6/20/2018	ND<20	FALSE
PH1-GWC-1	12/20/2018	ND<20	FALSE
PH1-GWC-1	6/13/2019	ND<20	FALSE
PH1-GWC-1	12/12/2019	ND<20	FALSE

Total Zinc

Non-Parametric Tolerance Interval

Parameter: Total Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 74.1935%

Background measurements (n) = 24

Maximum Background Concentration = 48.9

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1	6/10/2014	ND<20	FALSE
PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	6/24/2015	34	FALSE
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	6/15/2016	21	FALSE
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	6/14/2017	43	FALSE
PH1-GWA-1	12/14/2017	51	TRUE
PH1-GWA-1	6/20/2018	55	TRUE
PH1-GWA-1	12/19/2018	40	FALSE
PH1-GWA-1	6/11/2019	34	FALSE
PH1-GWA-1	12/10/2019	32.4	FALSE

PH1-GWA-1A	6/10/2014	ND<20	FALSE
PH1-GWA-1A	12/8/2014	ND<20	FALSE
PH1-GWA-1A	6/23/2015	ND<20	FALSE
PH1-GWA-1A	12/9/2015	ND<20	FALSE
PH1-GWA-1A	6/14/2016	ND<20	FALSE
PH1-GWA-1A	12/7/2016	ND<20	FALSE
PH1-GWA-1A	6/12/2017	ND<20	FALSE
PH1-GWA-1A	12/13/2017	ND<20	FALSE
PH1-GWA-1A	6/20/2018	ND<20	FALSE
PH1-GWA-1A	12/19/2018	ND<20	FALSE
PH1-GWA-1A	6/11/2019	ND<20	FALSE
PH1-GWA-1A	12/10/2019	ND<20	FALSE

PH1-GWA-2	6/10/2014	ND<20	FALSE
PH1-GWA-2	12/11/2014	ND<20	FALSE
PH1-GWA-2	6/23/2015	ND<20	FALSE
PH1-GWA-2	12/9/2015	ND<20	FALSE
PH1-GWA-2	6/14/2016	56	TRUE
PH1-GWA-2	12/8/2016	ND<20	FALSE
PH1-GWA-2	6/16/2017	ND<20	FALSE
PH1-GWA-2	12/14/2017	ND<20	FALSE
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	12/19/2018	29	FALSE
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWA-2	12/10/2019	ND<20	FALSE

PH1-GWB-1	6/10/2014	ND<20	FALSE
PH1-GWB-1	12/9/2014	21	FALSE

Total Zinc

PH1-GWB-1	6/23/2015	ND<20	FALSE
PH1-GWB-1	12/8/2015	29	FALSE
PH1-GWB-1	6/14/2016	ND<20	FALSE
PH1-GWB-1	12/8/2016	ND<20	FALSE
PH1-GWB-1	6/16/2017	ND<20	FALSE
PH1-GWB-1	12/13/2017	ND<20	FALSE
PH1-GWB-1	6/19/2018	39	FALSE
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	6/12/2019	22	FALSE
PH1-GWB-1	12/11/2019	38.2	FALSE

PH1-GWB-2	6/10/2014	29	FALSE
PH1-GWB-2	12/12/2014	31	FALSE
PH1-GWB-2	6/25/2015	23	FALSE
PH1-GWB-2	12/9/2015	49	TRUE
PH1-GWB-2	6/14/2016	59	TRUE
PH1-GWB-2	12/9/2016	31	FALSE
PH1-GWB-2	6/16/2017	36	FALSE
PH1-GWB-2	12/12/2017	25	FALSE
PH1-GWB-2	6/20/2018	31	FALSE
PH1-GWB-2	12/18/2018	28	FALSE
PH1-GWB-2	6/13/2019	33	FALSE
PH1-GWB-2	12/13/2019	38.3	FALSE

PH1-GWC-2	6/11/2014	ND<20	FALSE
PH1-GWC-2	12/11/2014	22	FALSE
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	6/14/2017	ND<20	FALSE
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	6/10/2019	26	FALSE
PH1-GWC-2	12/10/2019	ND<20	FALSE

PH1-GWC-3	6/11/2014	ND<20	FALSE
PH1-GWC-3	12/11/2014	ND<20	FALSE
PH1-GWC-3	6/25/2015	ND<20	FALSE
PH1-GWC-3	12/10/2015	ND<20	FALSE
PH1-GWC-3	6/17/2016	ND<20	FALSE
PH1-GWC-3	12/9/2016	ND<20	FALSE
PH1-GWC-3	6/14/2017	ND<20	FALSE
PH1-GWC-3	12/13/2017	ND<20	FALSE
PH1-GWC-3	6/20/2018	ND<20	FALSE
PH1-GWC-3	12/19/2018	ND<20	FALSE
PH1-GWC-3	6/11/2019	ND<20	FALSE
PH1-GWC-3	12/10/2019	ND<20	FALSE

PH1-GWC-3A	6/11/2014	ND<20	FALSE
PH1-GWC-3A	12/11/2014	ND<20	FALSE
PH1-GWC-3A	6/25/2015	ND<20	FALSE

Total Zinc

PH1-GWC-3A	12/10/2015	ND<20	FALSE
PH1-GWC-3A	6/17/2016	ND<20	FALSE
PH1-GWC-3A	12/9/2016	ND<20	FALSE
PH1-GWC-3A	6/14/2017	ND<20	FALSE
PH1-GWC-3A	12/13/2017	ND<20	FALSE
PH1-GWC-3A	6/28/2018	21	FALSE
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/10/2019	ND<20	FALSE

PH1-GWC-4	6/12/2014	ND<20	FALSE
PH1-GWC-4	12/12/2014	20	FALSE
PH1-GWC-4	6/25/2015	ND<20	FALSE
PH1-GWC-4	12/8/2015	ND<20	FALSE
PH1-GWC-4	6/14/2016	ND<20	FALSE
PH1-GWC-4	12/9/2016	21	FALSE
PH1-GWC-4	6/16/2017	20	FALSE
PH1-GWC-4	12/12/2017	28	FALSE
PH1-GWC-4	6/20/2018	ND<20	FALSE
PH1-GWC-4	12/20/2018	120	TRUE
PH1-GWC-4	6/13/2019	20	FALSE

GWC-1	6/13/2014	ND<20	FALSE
GWC-1	12/12/2014	ND<20	FALSE
GWC-1	6/25/2015	ND<20	FALSE
GWC-1	12/10/2015	ND<20	FALSE
GWC-1	6/15/2016	ND<20	FALSE
GWC-1	12/9/2016	ND<20	FALSE
GWC-1	6/14/2017	ND<20	FALSE
GWC-1	12/14/2017	ND<20	FALSE
GWC-1	6/20/2018	20	FALSE
GWC-1	12/18/2018	ND<20	FALSE
GWC-1	6/13/2019	ND<20	FALSE
GWC-1	12/11/2019	27.1	FALSE

PH1-GWC-1	6/13/2014	ND<20	FALSE
PH1-GWC-1	12/12/2014	ND<20	FALSE
PH1-GWC-1	6/25/2015	ND<20	FALSE
PH1-GWC-1	12/9/2015	ND<20	FALSE
PH1-GWC-1	6/16/2016	ND<20	FALSE
PH1-GWC-1	12/9/2016	ND<20	FALSE
PH1-GWC-1	6/16/2017	ND<20	FALSE
PH1-GWC-1	12/12/2017	ND<20	FALSE
PH1-GWC-1	6/20/2018	ND<20	FALSE
PH1-GWC-1	12/20/2018	ND<20	FALSE
PH1-GWC-1	6/13/2019	ND<20	FALSE
PH1-GWC-1	12/12/2019	ND<20	FALSE

Trichloroethene

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.6129%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
----------	------	-------	-------------

PH1-GWA-1	6/9/2014	ND<2	FALSE
PH1-GWA-1	12/10/2014	2.7	TRUE
PH1-GWA-1	6/23/2015	2.1	TRUE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	2.2	TRUE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	3.1	TRUE

PH1-GWA-2	6/9/2014	8.1	TRUE
PH1-GWA-2	12/10/2014	6.7	TRUE
PH1-GWA-2	6/22/2015	5.1	TRUE
PH1-GWA-2	12/8/2015	3.5	TRUE
PH1-GWA-2	6/13/2016	3.8	TRUE
PH1-GWA-2	12/7/2016	7.1	TRUE
PH1-GWA-2	6/15/2017	4.1	TRUE
PH1-GWA-2	12/13/2017	5.8	TRUE
PH1-GWA-2	6/18/2018	4.2	TRUE
PH1-GWA-2	12/18/2018	4	TRUE
PH1-GWA-2	6/11/2019	2.1	TRUE
PH1-GWA-2	12/9/2019	7.3	TRUE

PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE

PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

Trichloroethene

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE

PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE

PH1-GWC-2	6/10/2014	ND<2	FALSE
PH1-GWC-2	12/11/2014	ND<2	FALSE
PH1-GWC-2	6/23/2015	ND<2	FALSE
PH1-GWC-2	12/8/2015	ND<2	FALSE
PH1-GWC-2	6/14/2016	ND<2	FALSE
PH1-GWC-2	12/7/2016	ND<2	FALSE
PH1-GWC-2	6/13/2017	2.4	TRUE
PH1-GWC-2	12/13/2017	ND<2	FALSE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	2	FALSE
PH1-GWC-2	6/10/2019	2	FALSE
PH1-GWC-2	12/10/2019	2.6	TRUE

PH1-GWC-3	6/10/2014	5.7	TRUE
PH1-GWC-3	12/10/2014	4.6	TRUE
PH1-GWC-3	6/24/2015	5.3	TRUE
PH1-GWC-3	12/9/2015	6.9	TRUE
PH1-GWC-3	6/16/2016	5.6	TRUE
PH1-GWC-3	12/8/2016	7.6	TRUE
PH1-GWC-3	6/13/2017	7	TRUE
PH1-GWC-3	12/12/2017	8.4	TRUE
PH1-GWC-3	6/19/2018	6.9	TRUE
PH1-GWC-3	12/18/2018	6.8	TRUE
PH1-GWC-3	6/10/2019	7.4	TRUE
PH1-GWC-3	12/9/2019	8.7	TRUE

PH1-GWC-3A	6/10/2014	7.3	TRUE
PH1-GWC-3A	12/10/2014	5.8	TRUE
PH1-GWC-3A	6/24/2015	6.5	TRUE

Trichloroethene

PH1-GWC-3A	12/9/2015	6.7	TRUE
PH1-GWC-3A	6/16/2016	4.6	TRUE
PH1-GWC-3A	12/8/2016	6.8	TRUE
PH1-GWC-3A	6/13/2017	6	TRUE
PH1-GWC-3A	12/12/2017	6.6	TRUE
PH1-GWC-3A	6/19/2018	6.8	TRUE
PH1-GWC-3A	12/18/2018	5.8	TRUE
PH1-GWC-3A	6/10/2019	5.7	TRUE
PH1-GWC-3A	12/9/2019	8.4	TRUE

PH1-GWC-4	6/11/2014	ND<2	FALSE
PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE

GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE

PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE

Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-3	FALSE	96%
1,1-Dichloroethane	GWC-11	FALSE	96%
1,1-Dichloroethane	GWC-12	FALSE	96%
1,1-Dichloroethane	GWC-12A	FALSE	96%
1,1-Dichloroethane	GWC-13	FALSE	96%
1,1-Dichloroethane	GWC-17	FALSE	96%
1,1-Dichloroethane	GWC-18	FALSE	96%
1,1-Dichloroethane	GWA-1A	FALSE	96%
1,1-Dichloroethane	GWC-15	TRUE	96%
1,1-Dichloroethane	GWC-19R	FALSE	96%
1,1-Dichloroethane	GWC-22	FALSE	96%
1,1-Dichloroethane	GWC-4A	FALSE	96%
1,1-Dichloroethane	GWC-5	FALSE	96%
1,1-Dichloroethane	GWC-6	FALSE	96%
1,1-Dichloroethane	GWC-7	FALSE	96%
1,1-Dichloroethane	GWC-10	FALSE	96%
1,1-Dichloroethane	GWC-10A	FALSE	96%
1,1-Dichloroethane	GWC-14	FALSE	96%
1,1-Dichloroethane	GWC-14A	TRUE	96%
1,1-Dichloroethane	GWC-14R	TRUE	96%
1,1-Dichloroethane	GWC-23A	FALSE	96%
1,1-Dichloroethane	GWC-24	FALSE	96%
1,1-Dichloroethane	GWC-3	FALSE	96%
1,1-Dichloroethane	GWC-3A	FALSE	96%
1,1-Dichloroethane	GWC-8	FALSE	96%
1,1-Dichloroethane	GWC-8A	TRUE	96%
1,1-Dichloroethane	GWC-8R	TRUE	96%
1,1-Dichloroethane	GWC-9	FALSE	96%
1,1-Dichloroethane	GWC-16A	FALSE	96%
1,1-Dichloroethane	GWC-2	FALSE	96%
1,1-Dichloroethane	GWC-23	FALSE	96%
1,1-Dichloroethane	GWC-4	FALSE	96%
Acetone	GWA-3	FALSE	96%
Acetone	GWC-11	FALSE	96%
Acetone	GWC-12	FALSE	96%
Acetone	GWC-12A	FALSE	96%
Acetone	GWC-13	FALSE	96%
Acetone	GWC-17	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-18	FALSE	96%
Acetone	GWA-1A	FALSE	96%
Acetone	GWC-15	FALSE	96%
Acetone	GWC-19R	FALSE	96%
Acetone	GWC-22	FALSE	96%
Acetone	GWC-4A	FALSE	96%
Acetone	GWC-5	FALSE	96%
Acetone	GWC-6	FALSE	96%
Acetone	GWC-7	FALSE	96%
Acetone	GWC-10	FALSE	96%
Acetone	GWC-10A	FALSE	96%
Acetone	GWC-14	FALSE	96%
Acetone	GWC-14A	FALSE	96%
Acetone	GWC-14R	FALSE	96%
Acetone	GWC-23A	FALSE	96%
Acetone	GWC-24	FALSE	96%
Acetone	GWC-3	FALSE	96%
Acetone	GWC-3A	FALSE	96%
Acetone	GWC-8	FALSE	96%
Acetone	GWC-8A	FALSE	96%
Acetone	GWC-8R	FALSE	96%
Acetone	GWC-9	FALSE	96%
Acetone	GWC-16A	FALSE	96%
Acetone	GWC-2	FALSE	96%
Acetone	GWC-23	FALSE	96%
Acetone	GWC-4	FALSE	96%
Benzene	GWA-3	FALSE	96%
Benzene	GWC-11	FALSE	96%
Benzene	GWC-12	FALSE	96%
Benzene	GWC-12A	FALSE	96%
Benzene	GWC-13	FALSE	96%
Benzene	GWC-17	FALSE	96%
Benzene	GWC-18	FALSE	96%
Benzene	GWA-1A	FALSE	96%
Benzene	GWC-15	FALSE	96%
Benzene	GWC-19R	FALSE	96%
Benzene	GWC-22	FALSE	96%
Benzene	GWC-4A	FALSE	96%

Notes:

1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-5	FALSE	96%
Benzene	GWC-6	FALSE	96%
Benzene	GWC-7	FALSE	96%
Benzene	GWC-10	FALSE	96%
Benzene	GWC-10A	FALSE	96%
Benzene	GWC-14	FALSE	96%
Benzene	GWC-14A	TRUE	96%
Benzene	GWC-14R	FALSE	96%
Benzene	GWC-23A	FALSE	96%
Benzene	GWC-24	FALSE	96%
Benzene	GWC-3	FALSE	96%
Benzene	GWC-3A	FALSE	96%
Benzene	GWC-8	FALSE	96%
Benzene	GWC-8A	TRUE	96%
Benzene	GWC-8R	FALSE	96%
Benzene	GWC-9	FALSE	96%
Benzene	GWC-16A	FALSE	96%
Benzene	GWC-2	FALSE	96%
Benzene	GWC-23	FALSE	96%
Benzene	GWC-4	FALSE	96%
Chloroethane	GWA-3	FALSE	96%
Chloroethane	GWC-11	FALSE	96%
Chloroethane	GWC-12	FALSE	96%
Chloroethane	GWC-12A	FALSE	96%
Chloroethane	GWC-13	FALSE	96%
Chloroethane	GWC-17	FALSE	96%
Chloroethane	GWC-18	FALSE	96%
Chloroethane	GWA-1A	FALSE	96%
Chloroethane	GWC-15	FALSE	96%
Chloroethane	GWC-19R	FALSE	96%
Chloroethane	GWC-22	FALSE	96%
Chloroethane	GWC-4A	FALSE	96%
Chloroethane	GWC-5	FALSE	96%
Chloroethane	GWC-6	FALSE	96%
Chloroethane	GWC-7	FALSE	96%
Chloroethane	GWC-10	FALSE	96%
Chloroethane	GWC-10A	FALSE	96%
Chloroethane	GWC-14	FALSE	96%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-14A	TRUE	96%
Chloroethane	GWC-14R	FALSE	96%
Chloroethane	GWC-23A	FALSE	96%
Chloroethane	GWC-24	FALSE	96%
Chloroethane	GWC-3	FALSE	96%
Chloroethane	GWC-3A	FALSE	96%
Chloroethane	GWC-8	FALSE	96%
Chloroethane	GWC-8A	FALSE	96%
Chloroethane	GWC-8R	FALSE	96%
Chloroethane	GWC-9	FALSE	96%
Chloroethane	GWC-16A	FALSE	96%
Chloroethane	GWC-2	FALSE	96%
Chloroethane	GWC-23	FALSE	96%
Chloroethane	GWC-4	FALSE	96%
cis-1,2-Dichloroethene	GWA-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-11	FALSE	96%
cis-1,2-Dichloroethene	GWC-12	FALSE	96%
cis-1,2-Dichloroethene	GWC-12A	FALSE	96%
cis-1,2-Dichloroethene	GWC-13	FALSE	96%
cis-1,2-Dichloroethene	GWC-17	TRUE	96%
cis-1,2-Dichloroethene	GWC-18	TRUE	96%
cis-1,2-Dichloroethene	GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	GWC-15	TRUE	96%
cis-1,2-Dichloroethene	GWC-19R	TRUE	96%
cis-1,2-Dichloroethene	GWC-22	FALSE	96%
cis-1,2-Dichloroethene	GWC-4A	FALSE	96%
cis-1,2-Dichloroethene	GWC-5	FALSE	96%
cis-1,2-Dichloroethene	GWC-6	FALSE	96%
cis-1,2-Dichloroethene	GWC-7	FALSE	96%
cis-1,2-Dichloroethene	GWC-10	FALSE	96%
cis-1,2-Dichloroethene	GWC-10A	FALSE	96%
cis-1,2-Dichloroethene	GWC-14	FALSE	96%
cis-1,2-Dichloroethene	GWC-14A	TRUE	96%
cis-1,2-Dichloroethene	GWC-14R	TRUE	96%
cis-1,2-Dichloroethene	GWC-23A	FALSE	96%
cis-1,2-Dichloroethene	GWC-24	TRUE	96%
cis-1,2-Dichloroethene	GWC-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-3A	FALSE	96%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-8	Pass KW	96%
cis-1,2-Dichloroethene	GWC-8A	TRUE	96%
cis-1,2-Dichloroethene	GWC-8R	TRUE	96%
cis-1,2-Dichloroethene	GWC-9	FALSE	96%
cis-1,2-Dichloroethene	GWC-16A	TRUE	96%
cis-1,2-Dichloroethene	GWC-2	FALSE	96%
cis-1,2-Dichloroethene	GWC-23	FALSE	96%
cis-1,2-Dichloroethene	GWC-4	FALSE	96%
Methylene Chloride	GWA-3	FALSE	96%
Methylene Chloride	GWC-11	FALSE	96%
Methylene Chloride	GWC-12	FALSE	96%
Methylene Chloride	GWC-12A	FALSE	96%
Methylene Chloride	GWC-13	FALSE	96%
Methylene Chloride	GWC-17	FALSE	96%
Methylene Chloride	GWC-18	FALSE	96%
Methylene Chloride	GWA-1A	FALSE	96%
Methylene Chloride	GWC-15	FALSE	96%
Methylene Chloride	GWC-19R	FALSE	96%
Methylene Chloride	GWC-22	FALSE	96%
Methylene Chloride	GWC-4A	FALSE	96%
Methylene Chloride	GWC-5	FALSE	96%
Methylene Chloride	GWC-6	FALSE	96%
Methylene Chloride	GWC-7	FALSE	96%
Methylene Chloride	GWC-10	FALSE	96%
Methylene Chloride	GWC-10A	FALSE	96%
Methylene Chloride	GWC-14	FALSE	96%
Methylene Chloride	GWC-14A	FALSE	96%
Methylene Chloride	GWC-14R	FALSE	96%
Methylene Chloride	GWC-23A	FALSE	96%
Methylene Chloride	GWC-24	FALSE	96%
Methylene Chloride	GWC-3	FALSE	96%
Methylene Chloride	GWC-3A	FALSE	96%
Methylene Chloride	GWC-8	FALSE	96%
Methylene Chloride	GWC-8A	FALSE	96%
Methylene Chloride	GWC-8R	FALSE	96%
Methylene Chloride	GWC-9	FALSE	96%
Methylene Chloride	GWC-16A	FALSE	96%
Methylene Chloride	GWC-2	FALSE	96%

Notes:

1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Methylene Chloride	GWC-23	FALSE	96%
Methylene Chloride	GWC-4	FALSE	96%
Tetrachloroethene	GWA-3	FALSE	96%
Tetrachloroethene	GWC-11	FALSE	96%
Tetrachloroethene	GWC-12	FALSE	96%
Tetrachloroethene	GWC-12A	FALSE	96%
Tetrachloroethene	GWC-13	FALSE	96%
Tetrachloroethene	GWC-17	FALSE	96%
Tetrachloroethene	GWC-18	TRUE	96%
Tetrachloroethene	GWA-1A	FALSE	96%
Tetrachloroethene	GWC-15	TRUE	96%
Tetrachloroethene	GWC-19R	FALSE	96%
Tetrachloroethene	GWC-22	FALSE	96%
Tetrachloroethene	GWC-4A	FALSE	96%
Tetrachloroethene	GWC-5	FALSE	96%
Tetrachloroethene	GWC-6	FALSE	96%
Tetrachloroethene	GWC-7	FALSE	96%
Tetrachloroethene	GWC-10	FALSE	96%
Tetrachloroethene	GWC-10A	FALSE	96%
Tetrachloroethene	GWC-14	FALSE	96%
Tetrachloroethene	GWC-14A	FALSE	96%
Tetrachloroethene	GWC-14R	FALSE	96%
Tetrachloroethene	GWC-23A	FALSE	96%
Tetrachloroethene	GWC-24	FALSE	96%
Tetrachloroethene	GWC-3	FALSE	96%
Tetrachloroethene	GWC-3A	FALSE	96%
Tetrachloroethene	GWC-8	FALSE	96%
Tetrachloroethene	GWC-8A	FALSE	96%
Tetrachloroethene	GWC-8R	FALSE	96%
Tetrachloroethene	GWC-9	FALSE	96%
Tetrachloroethene	GWC-16A	FALSE	96%
Tetrachloroethene	GWC-2	FALSE	96%
Tetrachloroethene	GWC-23	FALSE	96%
Tetrachloroethene	GWC-4	FALSE	96%
Toluene	GWA-3	FALSE	96%
Toluene	GWC-11	FALSE	96%
Toluene	GWC-12	FALSE	96%
Toluene	GWC-12A	FALSE	96%

Notes:

1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-13	FALSE	96%
Toluene	GWC-17	FALSE	96%
Toluene	GWC-18	FALSE	96%
Toluene	GWA-1A	FALSE	96%
Toluene	GWC-15	FALSE	96%
Toluene	GWC-19R	FALSE	96%
Toluene	GWC-22	FALSE	96%
Toluene	GWC-4A	FALSE	96%
Toluene	GWC-5	FALSE	96%
Toluene	GWC-6	FALSE	96%
Toluene	GWC-7	FALSE	96%
Toluene	GWC-10	FALSE	96%
Toluene	GWC-10A	FALSE	96%
Toluene	GWC-14	FALSE	96%
Toluene	GWC-14A	FALSE	96%
Toluene	GWC-14R	FALSE	96%
Toluene	GWC-23A	FALSE	96%
Toluene	GWC-24	FALSE	96%
Toluene	GWC-3	FALSE	96%
Toluene	GWC-3A	FALSE	96%
Toluene	GWC-8	FALSE	96%
Toluene	GWC-8A	FALSE	96%
Toluene	GWC-8R	FALSE	96%
Toluene	GWC-9	FALSE	96%
Toluene	GWC-16A	FALSE	96%
Toluene	GWC-2	FALSE	96%
Toluene	GWC-23	FALSE	96%
Toluene	GWC-4	FALSE	96%
Total Barium	GWA-1A	FALSE	96%
Total Barium	GWA-3	FALSE	96%
Total Barium	GWC-11	FALSE	96%
Total Barium	GWC-12	FALSE	96%
Total Barium	GWC-12A	FALSE	96%
Total Barium	GWC-13	FALSE	96%
Total Barium	GWC-17	FALSE	96%
Total Barium	GWC-18	TRUE	96%
Total Barium	GWC-14	Pass KW	96%
Total Barium	GWC-14A	TRUE	96%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	GWC-15	TRUE	96%
Total Barium	GWC-19R	TRUE	96%
Total Barium	GWC-22	FALSE	96%
Total Barium	GWC-23A	FALSE	96%
Total Barium	GWC-4A	FALSE	96%
Total Barium	GWC-5	FALSE	96%
Total Barium	GWC-6	FALSE	96%
Total Barium	GWC-7	TRUE	96%
Total Barium	GWC-10	FALSE	96%
Total Barium	GWC-10A	FALSE	96%
Total Barium	GWC-23	FALSE	96%
Total Barium	GWC-24	FALSE	96%
Total Barium	GWC-3	FALSE	96%
Total Barium	GWC-3A	Pass KW	96%
Total Barium	GWC-8	FALSE	96%
Total Barium	GWC-8A	TRUE	96%
Total Barium	GWC-9	TRUE	96%
Total Barium	GWC-16A	FALSE	96%
Total Barium	GWC-2	FALSE	96%
Total Barium	GWC-4	FALSE	96%
Total Chromium	GWA-1A	FALSE	96%
Total Chromium	GWA-3	FALSE	96%
Total Chromium	GWC-11	FALSE	96%
Total Chromium	GWC-12	FALSE	96%
Total Chromium	GWC-12A	FALSE	96%
Total Chromium	GWC-13	FALSE	96%
Total Chromium	GWC-17	FALSE	96%
Total Chromium	GWC-18	FALSE	96%
Total Chromium	GWC-14	FALSE	96%
Total Chromium	GWC-14A	FALSE	96%
Total Chromium	GWC-15	FALSE	96%
Total Chromium	GWC-19R	FALSE	96%
Total Chromium	GWC-22	FALSE	96%
Total Chromium	GWC-23A	FALSE	96%
Total Chromium	GWC-4A	FALSE	96%
Total Chromium	GWC-5	FALSE	96%
Total Chromium	GWC-6	FALSE	96%
Total Chromium	GWC-7	FALSE	96%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-10	FALSE	96%
Total Chromium	GWC-10A	FALSE	96%
Total Chromium	GWC-23	FALSE	96%
Total Chromium	GWC-24	FALSE	96%
Total Chromium	GWC-3	FALSE	96%
Total Chromium	GWC-3A	FALSE	96%
Total Chromium	GWC-8	FALSE	96%
Total Chromium	GWC-8A	FALSE	96%
Total Chromium	GWC-9	FALSE	96%
Total Chromium	GWC-16A	FALSE	96%
Total Chromium	GWC-2	FALSE	96%
Total Chromium	GWC-4	FALSE	96%
Total Cobalt	GWA-1A	FALSE	96%
Total Cobalt	GWA-3	FALSE	96%
Total Cobalt	GWC-11	FALSE	96%
Total Cobalt	GWC-12	FALSE	96%
Total Cobalt	GWC-12A	FALSE	96%
Total Cobalt	GWC-13	FALSE	96%
Total Cobalt	GWC-17	FALSE	96%
Total Cobalt	GWC-18	FALSE	96%
Total Cobalt	GWC-14	TRUE	96%
Total Cobalt	GWC-14A	TRUE	96%
Total Cobalt	GWC-15	FALSE	96%
Total Cobalt	GWC-19R	FALSE	96%
Total Cobalt	GWC-22	FALSE	96%
Total Cobalt	GWC-23A	FALSE	96%
Total Cobalt	GWC-4A	FALSE	96%
Total Cobalt	GWC-5	FALSE	96%
Total Cobalt	GWC-6	FALSE	96%
Total Cobalt	GWC-7	FALSE	96%
Total Cobalt	GWC-10	FALSE	96%
Total Cobalt	GWC-10A	FALSE	96%
Total Cobalt	GWC-23	FALSE	96%
Total Cobalt	GWC-24	FALSE	96%
Total Cobalt	GWC-3	FALSE	96%
Total Cobalt	GWC-3A	FALSE	96%
Total Cobalt	GWC-8	FALSE	96%
Total Cobalt	GWC-8A	FALSE	96%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-9	FALSE	96%
Total Cobalt	GWC-16A	FALSE	96%
Total Cobalt	GWC-2	FALSE	96%
Total Cobalt	GWC-4	FALSE	96%
Total Copper	GWA-1A	FALSE	96%
Total Copper	GWA-3	FALSE	96%
Total Copper	GWC-11	FALSE	96%
Total Copper	GWC-12	FALSE	96%
Total Copper	GWC-12A	FALSE	96%
Total Copper	GWC-13	FALSE	96%
Total Copper	GWC-17	FALSE	96%
Total Copper	GWC-18	FALSE	96%
Total Copper	GWC-14	FALSE	96%
Total Copper	GWC-14A	FALSE	96%
Total Copper	GWC-15	FALSE	96%
Total Copper	GWC-19R	FALSE	96%
Total Copper	GWC-22	FALSE	96%
Total Copper	GWC-23A	FALSE	96%
Total Copper	GWC-4A	FALSE	96%
Total Copper	GWC-5	FALSE	96%
Total Copper	GWC-6	FALSE	96%
Total Copper	GWC-7	FALSE	96%
Total Copper	GWC-10	FALSE	96%
Total Copper	GWC-10A	FALSE	96%
Total Copper	GWC-23	FALSE	96%
Total Copper	GWC-24	FALSE	96%
Total Copper	GWC-3	FALSE	96%
Total Copper	GWC-3A	FALSE	96%
Total Copper	GWC-8	FALSE	96%
Total Copper	GWC-8A	FALSE	96%
Total Copper	GWC-9	FALSE	96%
Total Copper	GWC-16A	FALSE	96%
Total Copper	GWC-2	FALSE	96%
Total Copper	GWC-4	FALSE	96%
Total Nickel	GWA-1A	FALSE	96%
Total Nickel	GWA-3	FALSE	96%
Total Nickel	GWC-11	FALSE	96%
Total Nickel	GWC-12	FALSE	96%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-12A	FALSE	96%
Total Nickel	GWC-13	FALSE	96%
Total Nickel	GWC-17	FALSE	96%
Total Nickel	GWC-18	Pass KW	96%
Total Nickel	GWC-14	FALSE	96%
Total Nickel	GWC-14A	FALSE	96%
Total Nickel	GWC-15	FALSE	96%
Total Nickel	GWC-19R	FALSE	96%
Total Nickel	GWC-22	FALSE	96%
Total Nickel	GWC-23A	FALSE	96%
Total Nickel	GWC-4A	FALSE	96%
Total Nickel	GWC-5	FALSE	96%
Total Nickel	GWC-6	FALSE	96%
Total Nickel	GWC-7	FALSE	96%
Total Nickel	GWC-10	FALSE	96%
Total Nickel	GWC-10A	FALSE	96%
Total Nickel	GWC-23	FALSE	96%
Total Nickel	GWC-24	FALSE	96%
Total Nickel	GWC-3	FALSE	96%
Total Nickel	GWC-3A	FALSE	96%
Total Nickel	GWC-8	FALSE	96%
Total Nickel	GWC-8A	FALSE	96%
Total Nickel	GWC-9	FALSE	96%
Total Nickel	GWC-16A	FALSE	96%
Total Nickel	GWC-2	FALSE	96%
Total Nickel	GWC-4	FALSE	96%
Total Zinc	GWA-1A	FALSE	96%
Total Zinc	GWA-3	Pass KW	96%
Total Zinc	GWC-11	FALSE	96%
Total Zinc	GWC-12	FALSE	96%
Total Zinc	GWC-12A	FALSE	96%
Total Zinc	GWC-13	FALSE	96%
Total Zinc	GWC-17	FALSE	96%
Total Zinc	GWC-18	FALSE	96%
Total Zinc	GWC-14	FALSE	96%
Total Zinc	GWC-14A	FALSE	96%
Total Zinc	GWC-15	FALSE	96%
Total Zinc	GWC-19R	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-22	FALSE	96%
Total Zinc	GWC-23A	FALSE	96%
Total Zinc	GWC-4A	Pass KW	96%
Total Zinc	GWC-5	FALSE	96%
Total Zinc	GWC-6	FALSE	96%
Total Zinc	GWC-7	FALSE	96%
Total Zinc	GWC-10	Pass KW	96%
Total Zinc	GWC-10A	FALSE	96%
Total Zinc	GWC-23	FALSE	96%
Total Zinc	GWC-24	FALSE	96%
Total Zinc	GWC-3	FALSE	96%
Total Zinc	GWC-3A	FALSE	96%
Total Zinc	GWC-8	FALSE	96%
Total Zinc	GWC-8A	FALSE	96%
Total Zinc	GWC-9	TRUE	96%
Total Zinc	GWC-16A	FALSE	96%
Total Zinc	GWC-2	FALSE	96%
Total Zinc	GWC-4	FALSE	96%
Trichloroethene	GWA-3	FALSE	96%
Trichloroethene	GWC-11	FALSE	96%
Trichloroethene	GWC-12	FALSE	96%
Trichloroethene	GWC-12A	FALSE	96%
Trichloroethene	GWC-13	FALSE	96%
Trichloroethene	GWC-17	FALSE	96%
Trichloroethene	GWC-18	TRUE	96%
Trichloroethene	GWA-1A	FALSE	96%
Trichloroethene	GWC-15	TRUE	96%
Trichloroethene	GWC-19R	FALSE	96%
Trichloroethene	GWC-22	FALSE	96%
Trichloroethene	GWC-4A	FALSE	96%
Trichloroethene	GWC-5	FALSE	96%
Trichloroethene	GWC-6	FALSE	96%
Trichloroethene	GWC-7	FALSE	96%
Trichloroethene	GWC-10	FALSE	96%
Trichloroethene	GWC-10A	FALSE	96%
Trichloroethene	GWC-14	FALSE	96%
Trichloroethene	GWC-14A	TRUE	96%
Trichloroethene	GWC-14R	TRUE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
 Second 2019 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-23A	FALSE	96%
Trichloroethene	GWC-24	FALSE	96%
Trichloroethene	GWC-3	FALSE	96%
Trichloroethene	GWC-3A	FALSE	96%
Trichloroethene	GWC-8	FALSE	96%
Trichloroethene	GWC-8A	FALSE	96%
Trichloroethene	GWC-8R	FALSE	96%
Trichloroethene	GWC-9	FALSE	96%
Trichloroethene	GWC-16A	FALSE	96%
Trichloroethene	GWC-2	FALSE	96%
Trichloroethene	GWC-23	FALSE	96%
Trichloroethene	GWC-4	FALSE	96%
Vinyl chloride	GWA-3	FALSE	96%
Vinyl chloride	GWC-11	FALSE	96%
Vinyl chloride	GWC-12	FALSE	96%
Vinyl chloride	GWC-12A	FALSE	96%
Vinyl chloride	GWC-13	FALSE	96%
Vinyl chloride	GWC-17	FALSE	96%
Vinyl chloride	GWC-18	FALSE	96%
Vinyl chloride	GWA-1A	FALSE	96%
Vinyl chloride	GWC-15	FALSE	96%
Vinyl chloride	GWC-19R	FALSE	96%
Vinyl chloride	GWC-22	FALSE	96%
Vinyl chloride	GWC-4A	FALSE	96%
Vinyl chloride	GWC-5	FALSE	96%
Vinyl chloride	GWC-6	FALSE	96%
Vinyl chloride	GWC-7	FALSE	96%
Vinyl chloride	GWC-10	FALSE	96%
Vinyl chloride	GWC-10A	FALSE	96%
Vinyl chloride	GWC-14	FALSE	96%
Vinyl chloride	GWC-14A	TRUE	96%
Vinyl chloride	GWC-14R	FALSE	96%
Vinyl chloride	GWC-23A	FALSE	96%
Vinyl chloride	GWC-24	FALSE	96%
Vinyl chloride	GWC-3	FALSE	96%
Vinyl chloride	GWC-3A	FALSE	96%
Vinyl chloride	GWC-8	FALSE	96%
Vinyl chloride	GWC-8A	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-8R	FALSE	96%
Vinyl chloride	GWC-9	FALSE	96%
Vinyl chloride	GWC-16A	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Non-Parametric Tolerance Interval

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 84.3434%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
<hr/>			
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
<hr/>			
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
<hr/>			
GWC-12A	6/9/2014	ND<2	FALSE
GWC-12A	12/9/2014	ND<2	FALSE

GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE

GWC-13	6/9/2014	ND<2	FALSE
GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE

GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE

GWC-18	6/9/2014	2	FALSE
GWC-18	12/10/2014	2.9	TRUE
GWC-18	6/22/2015	2.7	TRUE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE

GWA-1A	6/10/2014	ND<2	FALSE
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE

1,1-Dichloroethane

GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE

GWC-15	6/10/2014	ND<2	FALSE
GWC-15	12/10/2014	5.4	TRUE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	5.2	TRUE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	38	TRUE
GWC-15	6/14/2017	2.9	TRUE
GWC-15	12/13/2017	3.7	TRUE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	3	TRUE
GWC-15	6/11/2019	38	TRUE
GWC-15	12/10/2019	23	TRUE

GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE

GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE

1,1-Dichloroethane

GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE

GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE

GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE

GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE

1,1-Dichloroethane

GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE

GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE

GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE

GWC-14A	6/11/2014	14	TRUE
GWC-14A	12/10/2014	19	TRUE
GWC-14A	6/23/2015	13	TRUE
GWC-14A	12/9/2015	16	TRUE
GWC-14A	6/15/2016	16	TRUE
GWC-14A	12/8/2016	22	TRUE
GWC-14A	6/13/2017	16	TRUE
GWC-14A	12/12/2017	23	TRUE
GWC-14A	6/20/2018	17	TRUE
GWC-14A	12/19/2018	16	TRUE
GWC-14A	6/11/2019	9.2	TRUE
GWC-14A	12/10/2019	14	TRUE

GWC-14R	6/11/2014	34	TRUE
GWC-14R	12/10/2014	30	TRUE
GWC-14R	6/23/2015	25	TRUE
GWC-14R	12/10/2015	22	TRUE
GWC-14R	6/15/2016	26	TRUE
GWC-14R	12/8/2016	24	TRUE
GWC-14R	6/13/2017	21	TRUE
GWC-14R	12/12/2017	20	TRUE
GWC-14R	6/20/2018	22	TRUE
GWC-14R	12/19/2018	18	TRUE

1,1-Dichloroethane

GWC-14R	6/12/2019	18	TRUE
GWC-14R	12/10/2019	14	TRUE

GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE

GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE

GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE

1,1-Dichloroethane

GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE

GWC-8A	6/11/2014	3.6	TRUE
GWC-8A	12/10/2014	6.1	TRUE
GWC-8A	6/24/2015	3	TRUE
GWC-8A	12/10/2015	3.8	TRUE
GWC-8A	6/15/2016	3.4	TRUE
GWC-8A	12/8/2016	5.1	TRUE
GWC-8A	6/13/2017	3	TRUE
GWC-8A	12/12/2017	4.9	TRUE
GWC-8A	6/20/2018	3.9	TRUE
GWC-8A	12/19/2018	4.2	TRUE
GWC-8A	6/12/2019	2.6	TRUE
GWC-8A	12/11/2019	3.7	TRUE

GWC-8R	6/11/2014	20	TRUE
GWC-8R	12/10/2014	19	TRUE
GWC-8R	6/23/2015	16	TRUE
GWC-8R	12/10/2015	18	TRUE
GWC-8R	6/15/2016	15	TRUE
GWC-8R	12/8/2016	15	TRUE
GWC-8R	6/13/2017	14	TRUE
GWC-8R	12/12/2017	14	TRUE
GWC-8R	6/20/2018	22	TRUE
GWC-8R	12/19/2018	13	TRUE
GWC-8R	6/12/2019	12	TRUE
GWC-8R	12/11/2019	9.3	TRUE

GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	6.5	TRUE
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1,1-Dichloroethane

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	12/9/2015	5.5	TRUE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	3.7	TRUE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE

GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE

GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE

GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE

Acetone

Non-Parametric Tolerance Interval

Parameter: Acetone

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%

Background measurements (n) = 24

Maximum Background Concentration = 100

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<100	FALSE
GWA-3	12/8/2014	ND<100	FALSE
GWA-3	6/22/2015	ND<100	FALSE
GWA-3	12/7/2015	ND<100	FALSE
GWA-3	6/13/2016	ND<100	FALSE
GWA-3	12/8/2016	ND<100	FALSE
GWA-3	6/14/2017	ND<100	FALSE
GWA-3	12/11/2017	ND<100	FALSE
GWA-3	6/18/2018	ND<100	FALSE
GWA-3	12/17/2018	ND<100	FALSE
GWA-3	6/11/2019	ND<100	FALSE
GWA-3	12/10/2019	ND<100	FALSE

GWC-11	6/9/2014	ND<100	FALSE
GWC-11	12/9/2014	ND<100	FALSE
GWC-11	6/22/2015	ND<100	FALSE
GWC-11	12/7/2015	ND<100	FALSE
GWC-11	6/14/2016	ND<100	FALSE
GWC-11	12/7/2016	ND<100	FALSE
GWC-11	6/14/2017	ND<100	FALSE
GWC-11	12/13/2017	ND<100	FALSE
GWC-11	6/19/2018	ND<100	FALSE
GWC-11	12/19/2018	ND<100	FALSE
GWC-11	6/12/2019	ND<100	FALSE
GWC-11	12/12/2019	ND<100	FALSE

GWC-12	6/9/2014	ND<100	FALSE
GWC-12	12/9/2014	ND<100	FALSE
GWC-12	6/22/2015	ND<100	FALSE
GWC-12	12/7/2015	ND<100	FALSE
GWC-12	6/14/2016	ND<100	FALSE
GWC-12	12/7/2016	ND<100	FALSE
GWC-12	6/14/2017	ND<100	FALSE
GWC-12	12/13/2017	ND<100	FALSE
GWC-12	6/19/2018	ND<100	FALSE
GWC-12	12/19/2018	ND<100	FALSE
GWC-12	6/11/2019	ND<100	FALSE
GWC-12	12/9/2019	ND<100	FALSE

GWC-12A	6/9/2014	ND<100	FALSE
GWC-12A	12/9/2014	ND<100	FALSE

Acetone

GWC-12A	6/22/2015	ND<100	FALSE
GWC-12A	12/7/2015	ND<100	FALSE
GWC-12A	6/14/2016	ND<100	FALSE
GWC-12A	12/7/2016	ND<100	FALSE
GWC-12A	6/14/2017	ND<100	FALSE
GWC-12A	12/13/2017	ND<100	FALSE
GWC-12A	6/19/2018	ND<100	FALSE
GWC-12A	12/19/2018	ND<100	FALSE
GWC-12A	6/11/2019	ND<100	FALSE
GWC-12A	12/9/2019	ND<100	FALSE

GWC-13	6/9/2014	ND<100	FALSE
GWC-13	12/11/2014	ND<100	FALSE
GWC-13	6/22/2015	ND<100	FALSE
GWC-13	12/7/2015	ND<100	FALSE
GWC-13	6/15/2016	ND<100	FALSE
GWC-13	12/7/2016	ND<100	FALSE
GWC-13	6/14/2017	ND<100	FALSE
GWC-13	12/12/2017	ND<100	FALSE
GWC-13	6/19/2018	ND<100	FALSE
GWC-13	12/19/2018	ND<100	FALSE
GWC-13	6/12/2019	ND<100	FALSE
GWC-13	12/11/2019	ND<100	FALSE

GWC-17	6/9/2014	ND<100	FALSE
GWC-17	12/10/2014	ND<100	FALSE
GWC-17	6/22/2015	ND<100	FALSE
GWC-17	12/8/2015	ND<100	FALSE
GWC-17	6/13/2016	ND<100	FALSE
GWC-17	6/14/2017	ND<100	FALSE
GWC-17	12/12/2017	ND<100	FALSE
GWC-17	6/19/2018	ND<100	FALSE
GWC-17	12/19/2018	ND<100	FALSE
GWC-17	6/12/2019	ND<100	FALSE
GWC-17	12/10/2019	ND<100	FALSE

GWC-18	6/9/2014	ND<100	FALSE
GWC-18	12/10/2014	ND<100	FALSE
GWC-18	6/22/2015	ND<100	FALSE
GWC-18	12/9/2015	ND<100	FALSE
GWC-18	6/13/2016	ND<100	FALSE
GWC-18	12/6/2016	ND<100	FALSE
GWC-18	6/14/2017	ND<100	FALSE
GWC-18	12/13/2017	ND<100	FALSE
GWC-18	6/19/2018	ND<100	FALSE
GWC-18	12/18/2018	ND<100	FALSE
GWC-18	6/11/2019	ND<100	FALSE
GWC-18	12/9/2019	ND<100	FALSE

GWA-1A	6/10/2014	ND<100	FALSE
GWA-1A	12/8/2014	ND<100	FALSE
GWA-1A	6/23/2015	ND<100	FALSE
GWA-1A	12/8/2015	ND<100	FALSE

Acetone

GWA-1A	6/14/2016	ND<100	FALSE
GWA-1A	12/7/2016	ND<100	FALSE
GWA-1A	6/12/2017	ND<100	FALSE
GWA-1A	12/13/2017	ND<100	FALSE
GWA-1A	6/19/2018	ND<100	FALSE
GWA-1A	12/18/2018	ND<100	FALSE
GWA-1A	6/10/2019	ND<100	FALSE
GWA-1A	12/9/2019	ND<100	FALSE

GWC-15	6/10/2014	ND<100	FALSE
GWC-15	12/10/2014	ND<100	FALSE
GWC-15	6/23/2015	ND<100	FALSE
GWC-15	12/9/2015	ND<100	FALSE
GWC-15	6/15/2016	ND<100	FALSE
GWC-15	12/8/2016	ND<100	FALSE
GWC-15	6/14/2017	ND<100	FALSE
GWC-15	12/13/2017	ND<100	FALSE
GWC-15	6/19/2018	ND<100	FALSE
GWC-15	12/19/2018	ND<100	FALSE
GWC-15	6/11/2019	ND<100	FALSE
GWC-15	12/10/2019	ND<100	FALSE

GWC-19R	6/10/2014	ND<100	FALSE
GWC-19R	12/10/2014	ND<100	FALSE
GWC-19R	6/22/2015	ND<100	FALSE
GWC-19R	12/9/2015	ND<100	FALSE
GWC-19R	6/15/2016	ND<100	FALSE
GWC-19R	12/6/2016	ND<100	FALSE
GWC-19R	6/14/2017	ND<100	FALSE
GWC-19R	12/13/2017	ND<100	FALSE
GWC-19R	6/19/2018	ND<100	FALSE
GWC-19R	12/18/2018	ND<100	FALSE
GWC-19R	6/11/2019	ND<100	FALSE
GWC-19R	12/9/2019	ND<100	FALSE

GWC-22	6/10/2014	ND<100	FALSE
GWC-22	12/8/2014	ND<100	FALSE
GWC-22	6/22/2015	ND<100	FALSE
GWC-22	12/9/2015	ND<100	FALSE
GWC-22	6/15/2016	ND<100	FALSE
GWC-22	12/6/2016	ND<100	FALSE
GWC-22	6/14/2017	ND<100	FALSE
GWC-22	12/11/2017	ND<100	FALSE
GWC-22	6/19/2018	ND<100	FALSE
GWC-22	12/18/2018	ND<100	FALSE
GWC-22	6/12/2019	ND<100	FALSE
GWC-22	12/11/2019	ND<100	FALSE

GWC-4A	6/10/2014	ND<100	FALSE
GWC-4A	12/11/2014	ND<100	FALSE
GWC-4A	6/24/2015	ND<100	FALSE
GWC-4A	12/9/2015	ND<100	FALSE
GWC-4A	6/16/2016	ND<100	FALSE

Acetone

GWC-4A	12/7/2016	ND<100	FALSE
GWC-4A	6/13/2017	ND<100	FALSE
GWC-4A	12/12/2017	ND<100	FALSE
GWC-4A	6/20/2018	ND<100	FALSE
GWC-4A	12/17/2018	ND<100	FALSE
GWC-4A	6/11/2019	ND<100	FALSE
GWC-4A	12/11/2019	ND<100	FALSE

GWC-5	6/10/2014	ND<100	FALSE
GWC-5	12/8/2014	ND<100	FALSE
GWC-5	6/24/2015	ND<100	FALSE
GWC-5	12/7/2015	ND<100	FALSE
GWC-5	6/14/2016	ND<100	FALSE
GWC-5	12/8/2016	ND<100	FALSE
GWC-5	6/12/2017	ND<100	FALSE
GWC-5	12/12/2017	ND<100	FALSE
GWC-5	6/21/2018	ND<100	FALSE
GWC-5	12/18/2018	ND<100	FALSE
GWC-5	6/12/2019	ND<100	FALSE
GWC-5	12/10/2019	ND<100	FALSE

GWC-6	6/10/2014	ND<100	FALSE
GWC-6	12/9/2014	ND<100	FALSE
GWC-6	6/22/2015	ND<100	FALSE
GWC-6	12/8/2015	ND<100	FALSE
GWC-6	6/14/2016	ND<100	FALSE
GWC-6	12/8/2016	ND<100	FALSE
GWC-6	6/12/2017	ND<100	FALSE
GWC-6	12/13/2017	ND<100	FALSE
GWC-6	6/21/2018	ND<100	FALSE
GWC-6	12/19/2018	ND<100	FALSE
GWC-6	6/12/2019	ND<100	FALSE
GWC-6	12/10/2019	ND<100	FALSE

GWC-7	6/10/2014	ND<100	FALSE
GWC-7	12/8/2014	ND<100	FALSE
GWC-7	6/24/2015	ND<100	FALSE
GWC-7	12/7/2015	ND<100	FALSE
GWC-7	6/15/2016	ND<100	FALSE
GWC-7	12/8/2016	ND<100	FALSE
GWC-7	6/12/2017	ND<100	FALSE
GWC-7	12/12/2017	ND<100	FALSE
GWC-7	6/19/2018	ND<100	FALSE
GWC-7	12/18/2018	ND<100	FALSE
GWC-7	6/12/2019	ND<100	FALSE
GWC-7	12/11/2019	ND<100	FALSE

GWC-10	6/11/2014	ND<100	FALSE
GWC-10	12/9/2014	ND<100	FALSE
GWC-10	6/22/2015	ND<100	FALSE
GWC-10	12/7/2015	ND<100	FALSE
GWC-10	6/14/2016	ND<100	FALSE
GWC-10	12/8/2016	ND<100	FALSE

Acetone

GWC-10	6/15/2017	ND<100	FALSE
GWC-10	12/12/2017	ND<100	FALSE
GWC-10	6/19/2018	ND<100	FALSE
GWC-10	12/17/2018	ND<100	FALSE
GWC-10	6/10/2019	ND<100	FALSE
GWC-10	12/12/2019	ND<100	FALSE

GWC-10A	6/11/2014	ND<100	FALSE
GWC-10A	12/9/2014	ND<100	FALSE
GWC-10A	6/22/2015	ND<100	FALSE
GWC-10A	12/7/2015	ND<100	FALSE
GWC-10A	6/14/2016	ND<100	FALSE
GWC-10A	12/8/2016	ND<100	FALSE
GWC-10A	6/15/2017	ND<100	FALSE
GWC-10A	12/12/2017	ND<100	FALSE
GWC-10A	6/19/2018	ND<100	FALSE
GWC-10A	12/17/2018	ND<100	FALSE
GWC-10A	6/10/2019	ND<100	FALSE
GWC-10A	12/12/2019	ND<100	FALSE

GWC-14	6/11/2014	ND<100	FALSE
GWC-14	12/10/2014	ND<100	FALSE
GWC-14	6/24/2015	ND<100	FALSE
GWC-14	12/9/2015	ND<100	FALSE
GWC-14	6/15/2016	ND<100	FALSE
GWC-14	6/13/2017	ND<100	FALSE
GWC-14	6/20/2018	ND<100	FALSE
GWC-14	6/11/2019	ND<100	FALSE
GWC-14	12/10/2019	ND<100	FALSE

GWC-14A	6/11/2014	ND<100	FALSE
GWC-14A	12/10/2014	ND<100	FALSE
GWC-14A	6/23/2015	ND<100	FALSE
GWC-14A	12/9/2015	ND<100	FALSE
GWC-14A	6/15/2016	ND<100	FALSE
GWC-14A	12/8/2016	ND<100	FALSE
GWC-14A	6/13/2017	ND<100	FALSE
GWC-14A	12/12/2017	ND<100	FALSE
GWC-14A	6/20/2018	ND<100	FALSE
GWC-14A	12/19/2018	ND<100	FALSE
GWC-14A	6/11/2019	ND<100	FALSE
GWC-14A	12/10/2019	ND<100	FALSE

GWC-14R	6/11/2014	ND<100	FALSE
GWC-14R	12/10/2014	ND<100	FALSE
GWC-14R	6/23/2015	ND<100	FALSE
GWC-14R	12/10/2015	ND<100	FALSE
GWC-14R	6/15/2016	ND<100	FALSE
GWC-14R	12/8/2016	ND<100	FALSE
GWC-14R	6/13/2017	ND<100	FALSE
GWC-14R	12/12/2017	ND<100	FALSE
GWC-14R	6/20/2018	ND<100	FALSE
GWC-14R	12/19/2018	ND<100	FALSE

Acetone

GWC-14R	6/12/2019	ND<100	FALSE
GWC-14R	12/10/2019	ND<100	FALSE

GWC-23A	6/11/2014	ND<100	FALSE
GWC-23A	12/8/2014	ND<100	FALSE
GWC-23A	6/22/2015	ND<100	FALSE
GWC-23A	12/8/2015	ND<100	FALSE
GWC-23A	6/15/2016	ND<100	FALSE
GWC-23A	12/6/2016	ND<100	FALSE
GWC-23A	6/14/2017	ND<100	FALSE
GWC-23A	12/11/2017	ND<100	FALSE
GWC-23A	6/18/2018	ND<100	FALSE
GWC-23A	12/18/2018	ND<100	FALSE
GWC-23A	6/12/2019	ND<100	FALSE
GWC-23A	12/11/2019	ND<100	FALSE

GWC-24	6/11/2014	ND<100	FALSE
GWC-24	12/10/2014	ND<100	FALSE
GWC-24	6/22/2015	ND<100	FALSE
GWC-24	12/8/2015	ND<100	FALSE
GWC-24	6/13/2016	ND<100	FALSE
GWC-24	12/7/2016	ND<100	FALSE
GWC-24	6/14/2017	ND<100	FALSE
GWC-24	12/13/2017	ND<100	FALSE
GWC-24	6/19/2018	ND<100	FALSE
GWC-24	12/19/2018	ND<100	FALSE
GWC-24	6/11/2019	ND<100	FALSE
GWC-24	12/9/2019	ND<100	FALSE

GWC-3	6/11/2014	ND<100	FALSE
GWC-3	6/24/2015	ND<100	FALSE
GWC-3	12/9/2015	ND<100	FALSE
GWC-3	6/14/2016	ND<100	FALSE
GWC-3	12/8/2016	ND<100	FALSE
GWC-3	6/15/2017	ND<100	FALSE
GWC-3	6/21/2018	ND<100	FALSE
GWC-3	12/17/2018	ND<100	FALSE
GWC-3	6/11/2019	ND<100	FALSE
GWC-3	12/10/2019	ND<100	FALSE

GWC-3A	6/11/2014	ND<100	FALSE
GWC-3A	12/11/2014	ND<100	FALSE
GWC-3A	6/24/2015	ND<100	FALSE
GWC-3A	12/9/2015	ND<100	FALSE
GWC-3A	6/14/2016	ND<100	FALSE
GWC-3A	12/8/2016	ND<100	FALSE
GWC-3A	6/15/2017	ND<100	FALSE
GWC-3A	12/12/2017	ND<100	FALSE
GWC-3A	6/20/2018	ND<100	FALSE
GWC-3A	12/17/2018	ND<100	FALSE
GWC-3A	6/11/2019	ND<100	FALSE
GWC-3A	12/10/2019	ND<100	FALSE

Acetone

GWC-8	6/11/2014	ND<100	FALSE
GWC-8	12/10/2014	ND<100	FALSE
GWC-8	6/23/2015	ND<100	FALSE
GWC-8	12/10/2015	ND<100	FALSE
GWC-8	6/15/2016	ND<100	FALSE
GWC-8	12/8/2016	ND<100	FALSE
GWC-8	12/12/2017	ND<100	FALSE
GWC-8	6/20/2018	ND<100	FALSE
GWC-8	12/19/2018	ND<100	FALSE
GWC-8	6/12/2019	ND<100	FALSE
GWC-8	12/11/2019	ND<100	FALSE

GWC-8A	6/11/2014	ND<100	FALSE
GWC-8A	12/10/2014	ND<100	FALSE
GWC-8A	6/24/2015	ND<100	FALSE
GWC-8A	12/10/2015	ND<100	FALSE
GWC-8A	6/15/2016	ND<100	FALSE
GWC-8A	12/8/2016	ND<100	FALSE
GWC-8A	6/13/2017	ND<100	FALSE
GWC-8A	12/12/2017	ND<100	FALSE
GWC-8A	6/20/2018	ND<100	FALSE
GWC-8A	12/19/2018	ND<100	FALSE
GWC-8A	6/12/2019	ND<100	FALSE
GWC-8A	12/11/2019	ND<100	FALSE

GWC-8R	6/11/2014	ND<100	FALSE
GWC-8R	12/10/2014	ND<100	FALSE
GWC-8R	6/23/2015	ND<100	FALSE
GWC-8R	12/10/2015	ND<100	FALSE
GWC-8R	6/15/2016	ND<100	FALSE
GWC-8R	12/8/2016	ND<100	FALSE
GWC-8R	6/13/2017	ND<100	FALSE
GWC-8R	12/12/2017	ND<100	FALSE
GWC-8R	6/20/2018	ND<100	FALSE
GWC-8R	12/19/2018	ND<100	FALSE
GWC-8R	6/12/2019	ND<100	FALSE
GWC-8R	12/11/2019	ND<100	FALSE

GWC-9	6/11/2014	ND<100	FALSE
GWC-9	12/11/2014	ND<100	FALSE
GWC-9	6/22/2015	ND<100	FALSE
GWC-9	12/8/2015	ND<100	FALSE
GWC-9	6/14/2016	ND<100	FALSE
GWC-9	12/8/2016	ND<100	FALSE
GWC-9	6/15/2017	ND<100	FALSE
GWC-9	12/13/2017	ND<100	FALSE
GWC-9	6/20/2018	ND<100	FALSE
GWC-9	12/18/2018	ND<100	FALSE
GWC-9	6/12/2019	ND<100	FALSE
GWC-9	12/12/2019	ND<100	FALSE

GWC-16A	6/12/2014	ND<100	FALSE
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Acetone

GWC-16A	12/10/2014	ND<100	FALSE
GWC-16A	6/24/2015	ND<100	FALSE
GWC-16A	12/9/2015	1300	TRUE
GWC-16A	6/16/2016	ND<100	FALSE
GWC-16A	12/7/2016	ND<100	FALSE
GWC-16A	6/14/2017	1500	TRUE
GWC-16A	12/13/2017	ND<100	FALSE
GWC-16A	6/21/2018	ND<100	FALSE
GWC-16A	12/19/2018	ND<100	FALSE
GWC-16A	6/13/2019	ND<100	FALSE
GWC-16A	12/11/2019	ND<100	FALSE

GWC-2	6/12/2014	ND<100	FALSE
GWC-2	12/11/2014	ND<100	FALSE
GWC-2	6/24/2015	ND<100	FALSE
GWC-2	12/9/2015	ND<100	FALSE
GWC-2	6/14/2016	ND<100	FALSE
GWC-2	12/8/2016	ND<100	FALSE
GWC-2	6/15/2017	ND<100	FALSE
GWC-2	12/13/2017	ND<100	FALSE
GWC-2	6/20/2018	ND<100	FALSE
GWC-2	12/19/2018	ND<100	FALSE
GWC-2	6/12/2019	ND<100	FALSE
GWC-2	12/10/2019	ND<100	FALSE

GWC-23	6/12/2014	ND<100	FALSE
GWC-23	12/8/2014	ND<100	FALSE
GWC-23	6/22/2015	ND<100	FALSE
GWC-23	12/8/2015	ND<100	FALSE
GWC-23	6/15/2016	ND<100	FALSE
GWC-23	12/6/2016	ND<100	FALSE
GWC-23	6/14/2017	ND<100	FALSE
GWC-23	12/11/2017	ND<100	FALSE
GWC-23	6/18/2018	ND<100	FALSE
GWC-23	12/18/2018	ND<100	FALSE
GWC-23	6/12/2019	ND<100	FALSE
GWC-23	12/11/2019	ND<100	FALSE

GWC-4	6/12/2014	ND<100	FALSE
GWC-4	12/11/2014	ND<100	FALSE
GWC-4	6/24/2015	ND<100	FALSE
GWC-4	12/9/2015	ND<100	FALSE
GWC-4	6/16/2016	ND<100	FALSE
GWC-4	12/7/2016	ND<100	FALSE
GWC-4	6/20/2018	ND<100	FALSE

Non-Parametric Tolerance Interval

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.4343%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
<hr/>			
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
<hr/>			
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
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GWC-12	12/9/2019	ND<2	FALSE
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GWC-12A	6/14/2016	ND<2	FALSE
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GWC-12A	6/14/2017	ND<2	FALSE
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GWC-12A	6/19/2018	ND<2	FALSE
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GWC-12A	12/9/2019	ND<2	FALSE

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GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
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GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE

GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
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GWC-18	6/9/2014	ND<2	FALSE
GWC-18	12/10/2014	ND<2	FALSE
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GWC-18	6/13/2016	ND<2	FALSE
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GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE

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GWA-1A	12/8/2015	ND<2	FALSE

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GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
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GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
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GWA-1A	12/9/2019	ND<2	FALSE

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GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	3.2	TRUE
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GWC-15	12/10/2019	ND<2	FALSE

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GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
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GWC-19R	12/9/2019	ND<2	FALSE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
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GWC-22	6/19/2018	ND<2	FALSE
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GWC-22	12/11/2019	ND<2	FALSE

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GWC-4A	12/11/2014	ND<2	FALSE
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GWC-4A	6/16/2016	ND<2	FALSE

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GWC-6	6/21/2018	ND<2	FALSE
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GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
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GWC-7	6/19/2018	ND<2	FALSE
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GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
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GWC-10	12/8/2016	ND<2	FALSE

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GWC-10	6/15/2017	ND<2	FALSE
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GWC-10A	6/11/2014	ND<2	FALSE
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GWC-10A	6/14/2016	ND<2	FALSE
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GWC-14A	6/20/2018	2.8	TRUE
GWC-14A	12/19/2018	2.5	TRUE
GWC-14A	6/11/2019	2.1	TRUE
GWC-14A	12/10/2019	2.6	TRUE

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GWC-24	6/19/2018	ND<2	FALSE
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GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
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GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
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GWC-8A	12/8/2016	3.2	TRUE
GWC-8A	6/13/2017	2.3	TRUE
GWC-8A	12/12/2017	3.8	TRUE
GWC-8A	6/20/2018	2.7	TRUE
GWC-8A	12/19/2018	3.3	TRUE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	2.8	TRUE

GWC-8R	6/11/2014	2.3	TRUE
GWC-8R	12/10/2014	2.2	TRUE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
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GWC-9	6/22/2015	ND<2	FALSE
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GWC-9	6/20/2018	ND<2	FALSE
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GWC-16A	6/12/2014	ND<2	FALSE
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Benzene

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GWC-16A	6/24/2015	ND<2	FALSE
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GWC-16A	6/21/2018	ND<2	FALSE
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GWC-23	6/12/2014	ND<2	FALSE
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GWC-23	12/11/2019	ND<2	FALSE

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GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE

Chloroethane

Non-Parametric Tolerance Interval

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.202%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
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GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
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Chloroethane

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Chloroethane

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GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE

GWC-15	6/10/2014	ND<2	FALSE
GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	2.8	TRUE
GWC-15	6/14/2017	ND<2	FALSE
GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE

GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE

GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE

Chloroethane

GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE

GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE

GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE

GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE

Chloroethane

GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE

GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE

GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE

GWC-14A	6/11/2014	7.1	TRUE
GWC-14A	12/10/2014	6.3	TRUE
GWC-14A	6/23/2015	8.2	TRUE
GWC-14A	12/9/2015	6.7	TRUE
GWC-14A	6/15/2016	12	TRUE
GWC-14A	12/8/2016	6.4	TRUE
GWC-14A	6/13/2017	5.8	TRUE
GWC-14A	12/12/2017	7.7	TRUE
GWC-14A	6/20/2018	8.5	TRUE
GWC-14A	12/19/2018	5.4	TRUE
GWC-14A	6/11/2019	4.4	TRUE
GWC-14A	12/10/2019	3.6	TRUE

GWC-14R	6/11/2014	ND<2	FALSE
GWC-14R	12/10/2014	ND<2	FALSE
GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
GWC-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE

Chloroethane

GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE

GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE

GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE

GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE

Chloroethane

GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE

GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

GWC-8R	6/11/2014	2.7	TRUE
GWC-8R	12/10/2014	2.7	TRUE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	2.2	TRUE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE

GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	4.5	TRUE
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Chloroethane

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	12/9/2015	6.3	TRUE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	3.3	TRUE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE

GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE

GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE

GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE

cis-1,2-Dichloroethene

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70.9596%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
<hr/>			
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
<hr/>			
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
<hr/>			
GWC-12A	6/9/2014	ND<2	FALSE
GWC-12A	12/9/2014	ND<2	FALSE

cis-1,2-Dichloroethene

GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE

GWC-13	6/9/2014	ND<2	FALSE
GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE

GWC-17	6/9/2014	4.9	TRUE
GWC-17	12/10/2014	24	TRUE
GWC-17	6/22/2015	10	TRUE
GWC-17	12/8/2015	45	TRUE
GWC-17	6/13/2016	41	TRUE
GWC-17	6/14/2017	8.4	TRUE
GWC-17	12/12/2017	17	TRUE
GWC-17	6/19/2018	4.7	TRUE
GWC-17	12/19/2018	8.7	TRUE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	15	TRUE

GWC-18	6/9/2014	9.9	TRUE
GWC-18	12/10/2014	16	TRUE
GWC-18	6/22/2015	15	TRUE
GWC-18	12/9/2015	14	TRUE
GWC-18	6/13/2016	3.6	TRUE
GWC-18	12/6/2016	16	TRUE
GWC-18	6/14/2017	16	TRUE
GWC-18	12/13/2017	14	TRUE
GWC-18	6/19/2018	7.7	TRUE
GWC-18	12/18/2018	12	TRUE
GWC-18	6/11/2019	14	TRUE
GWC-18	12/9/2019	30	TRUE

GWA-1A	6/10/2014	ND<2	FALSE
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE

cis-1,2-Dichloroethene

GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE

GWC-15	6/10/2014	ND<2	FALSE
GWC-15	12/10/2014	13	TRUE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	17	TRUE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	110	TRUE
GWC-15	6/14/2017	10	TRUE
GWC-15	12/13/2017	11	TRUE
GWC-15	6/19/2018	2	FALSE
GWC-15	12/19/2018	2.9	TRUE
GWC-15	6/11/2019	97	TRUE
GWC-15	12/10/2019	51	TRUE

GWC-19R	6/10/2014	6.9	TRUE
GWC-19R	12/10/2014	11	TRUE
GWC-19R	6/22/2015	6.8	TRUE
GWC-19R	12/9/2015	4.7	TRUE
GWC-19R	6/15/2016	9.3	TRUE
GWC-19R	12/6/2016	13	TRUE
GWC-19R	6/14/2017	2.4	TRUE
GWC-19R	12/13/2017	4.7	TRUE
GWC-19R	6/19/2018	5.1	TRUE
GWC-19R	12/18/2018	2.9	TRUE
GWC-19R	6/11/2019	7.7	TRUE
GWC-19R	12/9/2019	11	TRUE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE

GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE

cis-1,2-Dichloroethene

GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE

GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE

GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE

GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE

cis-1,2-Dichloroethene

GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE

GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE

GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE

GWC-14A	6/11/2014	25	TRUE
GWC-14A	12/10/2014	30	TRUE
GWC-14A	6/23/2015	32	TRUE
GWC-14A	12/9/2015	38	TRUE
GWC-14A	6/15/2016	42	TRUE
GWC-14A	12/8/2016	33	TRUE
GWC-14A	6/13/2017	64	TRUE
GWC-14A	12/12/2017	62	TRUE
GWC-14A	6/20/2018	71	TRUE
GWC-14A	12/19/2018	53	TRUE
GWC-14A	6/11/2019	46	TRUE
GWC-14A	12/10/2019	65	TRUE

GWC-14R	6/11/2014	30	TRUE
GWC-14R	12/10/2014	27	TRUE
GWC-14R	6/23/2015	22	TRUE
GWC-14R	12/10/2015	20	TRUE
GWC-14R	6/15/2016	25	TRUE
GWC-14R	12/8/2016	19	TRUE
GWC-14R	6/13/2017	26	TRUE
GWC-14R	12/12/2017	20	TRUE
GWC-14R	6/20/2018	24	TRUE
GWC-14R	12/19/2018	17	TRUE

cis-1,2-Dichloroethene

GWC-14R	6/12/2019	21	TRUE
GWC-14R	12/10/2019	19	TRUE

GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE

GWC-24	6/11/2014	4.6	TRUE
GWC-24	12/10/2014	7.9	TRUE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	2.4	TRUE
GWC-24	6/13/2016	5.2	TRUE
GWC-24	12/7/2016	5.4	TRUE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	2.2	TRUE
GWC-24	12/19/2018	3.7	TRUE
GWC-24	6/11/2019	4.4	TRUE
GWC-24	12/9/2019	6.1	TRUE

GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE

GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE

cis-1,2-Dichloroethene

GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	3.1	TRUE
GWC-8	12/12/2017	7.6	TRUE
GWC-8	6/20/2018	2.6	TRUE
GWC-8	12/19/2018	4.3	TRUE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	2.8	TRUE

GWC-8A	6/11/2014	18	TRUE
GWC-8A	12/10/2014	33	TRUE
GWC-8A	6/24/2015	19	TRUE
GWC-8A	12/10/2015	29	TRUE
GWC-8A	6/15/2016	25	TRUE
GWC-8A	12/8/2016	32	TRUE
GWC-8A	6/13/2017	27	TRUE
GWC-8A	12/12/2017	37	TRUE
GWC-8A	6/20/2018	32	TRUE
GWC-8A	12/19/2018	31	TRUE
GWC-8A	6/12/2019	22	TRUE
GWC-8A	12/11/2019	33	TRUE

GWC-8R	6/11/2014	19	TRUE
GWC-8R	12/10/2014	19	TRUE
GWC-8R	6/23/2015	19	TRUE
GWC-8R	12/10/2015	19	TRUE
GWC-8R	6/15/2016	21	TRUE
GWC-8R	12/8/2016	17	TRUE
GWC-8R	6/13/2017	23	TRUE
GWC-8R	12/12/2017	21	TRUE
GWC-8R	6/20/2018	24	TRUE
GWC-8R	12/19/2018	18	TRUE
GWC-8R	6/12/2019	21	TRUE
GWC-8R	12/11/2019	24	TRUE

GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	75	TRUE
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cis-1,2-Dichloroethene

GWC-16A	12/10/2014	4.9	TRUE
GWC-16A	6/24/2015	4.4	TRUE
GWC-16A	12/9/2015	82	TRUE
GWC-16A	6/16/2016	3.4	TRUE
GWC-16A	12/7/2016	3.5	TRUE
GWC-16A	6/14/2017	39	TRUE
GWC-16A	12/13/2017	2.9	TRUE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	2.5	TRUE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	2.1	TRUE

GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE

GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE

GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE

Methylene Chloride

Non-Parametric Tolerance Interval

Parameter: Methylene Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%

Background measurements (n) = 24

Maximum Background Concentration = 5

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<5	FALSE
GWA-3	12/8/2014	ND<5	FALSE
GWA-3	6/22/2015	ND<5	FALSE
GWA-3	12/7/2015	ND<5	FALSE
GWA-3	6/13/2016	ND<5	FALSE
GWA-3	12/8/2016	ND<5	FALSE
GWA-3	6/14/2017	ND<5	FALSE
GWA-3	12/11/2017	ND<5	FALSE
GWA-3	6/18/2018	ND<5	FALSE
GWA-3	12/17/2018	ND<5	FALSE
GWA-3	6/11/2019	ND<5	FALSE
GWA-3	12/10/2019	ND<5	FALSE
<hr/>			
GWC-11	6/9/2014	ND<5	FALSE
GWC-11	12/9/2014	ND<5	FALSE
GWC-11	6/22/2015	ND<5	FALSE
GWC-11	12/7/2015	ND<5	FALSE
GWC-11	6/14/2016	ND<5	FALSE
GWC-11	12/7/2016	ND<5	FALSE
GWC-11	6/14/2017	ND<5	FALSE
GWC-11	12/13/2017	ND<5	FALSE
GWC-11	6/19/2018	ND<5	FALSE
GWC-11	12/19/2018	ND<5	FALSE
GWC-11	6/12/2019	ND<5	FALSE
GWC-11	12/12/2019	ND<5	FALSE
<hr/>			
GWC-12	6/9/2014	ND<5	FALSE
GWC-12	12/9/2014	ND<5	FALSE
GWC-12	6/22/2015	ND<5	FALSE
GWC-12	12/7/2015	ND<5	FALSE
GWC-12	6/14/2016	ND<5	FALSE
GWC-12	12/7/2016	ND<5	FALSE
GWC-12	6/14/2017	ND<5	FALSE
GWC-12	12/13/2017	ND<5	FALSE
GWC-12	6/19/2018	ND<5	FALSE
GWC-12	12/19/2018	ND<5	FALSE
GWC-12	6/11/2019	ND<5	FALSE
GWC-12	12/9/2019	ND<5	FALSE
<hr/>			
GWC-12A	6/9/2014	ND<5	FALSE
GWC-12A	12/9/2014	ND<5	FALSE

Methylene Chloride

GWC-12A	6/22/2015	ND<5	FALSE
GWC-12A	12/7/2015	ND<5	FALSE
GWC-12A	6/14/2016	ND<5	FALSE
GWC-12A	12/7/2016	ND<5	FALSE
GWC-12A	6/14/2017	ND<5	FALSE
GWC-12A	12/13/2017	ND<5	FALSE
GWC-12A	6/19/2018	ND<5	FALSE
GWC-12A	12/19/2018	ND<5	FALSE
GWC-12A	6/11/2019	ND<5	FALSE
GWC-12A	12/9/2019	ND<5	FALSE
<hr/>			
GWC-13	6/9/2014	ND<5	FALSE
GWC-13	12/11/2014	ND<5	FALSE
GWC-13	6/22/2015	ND<5	FALSE
GWC-13	12/7/2015	ND<5	FALSE
GWC-13	6/15/2016	ND<5	FALSE
GWC-13	12/7/2016	ND<5	FALSE
GWC-13	6/14/2017	ND<5	FALSE
GWC-13	12/12/2017	ND<5	FALSE
GWC-13	6/19/2018	ND<5	FALSE
GWC-13	12/19/2018	ND<5	FALSE
GWC-13	6/12/2019	ND<5	FALSE
GWC-13	12/11/2019	ND<5	FALSE
<hr/>			
GWC-17	6/9/2014	ND<5	FALSE
GWC-17	12/10/2014	ND<5	FALSE
GWC-17	6/22/2015	ND<5	FALSE
GWC-17	12/8/2015	ND<5	FALSE
GWC-17	6/13/2016	ND<5	FALSE
GWC-17	6/14/2017	ND<5	FALSE
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GWC-17	6/19/2018	ND<5	FALSE
GWC-17	12/19/2018	ND<5	FALSE
GWC-17	6/12/2019	ND<5	FALSE
GWC-17	12/10/2019	ND<5	FALSE
<hr/>			
GWC-18	6/9/2014	ND<5	FALSE
GWC-18	12/10/2014	ND<5	FALSE
GWC-18	6/22/2015	ND<5	FALSE
GWC-18	12/9/2015	ND<5	FALSE
GWC-18	6/13/2016	ND<5	FALSE
GWC-18	12/6/2016	ND<5	FALSE
GWC-18	6/14/2017	ND<5	FALSE
GWC-18	12/13/2017	ND<5	FALSE
GWC-18	6/19/2018	ND<5	FALSE
GWC-18	12/18/2018	ND<5	FALSE
GWC-18	6/11/2019	ND<5	FALSE
GWC-18	12/9/2019	ND<5	FALSE
<hr/>			
GWA-1A	6/10/2014	ND<5	FALSE
GWA-1A	12/8/2014	ND<5	FALSE
GWA-1A	6/23/2015	ND<5	FALSE
GWA-1A	12/8/2015	ND<5	FALSE

Methylene Chloride

GWA-1A	6/14/2016	ND<5	FALSE
GWA-1A	12/7/2016	ND<5	FALSE
GWA-1A	6/12/2017	ND<5	FALSE
GWA-1A	12/13/2017	ND<5	FALSE
GWA-1A	6/19/2018	ND<5	FALSE
GWA-1A	12/18/2018	ND<5	FALSE
GWA-1A	6/10/2019	ND<5	FALSE
GWA-1A	12/9/2019	ND<5	FALSE

GWC-15	6/10/2014	ND<5	FALSE
GWC-15	12/10/2014	ND<5	FALSE
GWC-15	6/23/2015	ND<5	FALSE
GWC-15	12/9/2015	ND<5	FALSE
GWC-15	6/15/2016	ND<5	FALSE
GWC-15	12/8/2016	ND<5	FALSE
GWC-15	6/14/2017	ND<5	FALSE
GWC-15	12/13/2017	ND<5	FALSE
GWC-15	6/19/2018	ND<5	FALSE
GWC-15	12/19/2018	ND<5	FALSE
GWC-15	6/11/2019	ND<5	FALSE
GWC-15	12/10/2019	ND<5	FALSE

GWC-19R	6/10/2014	ND<5	FALSE
GWC-19R	12/10/2014	ND<5	FALSE
GWC-19R	6/22/2015	ND<5	FALSE
GWC-19R	12/9/2015	ND<5	FALSE
GWC-19R	6/15/2016	ND<5	FALSE
GWC-19R	12/6/2016	ND<5	FALSE
GWC-19R	6/14/2017	ND<5	FALSE
GWC-19R	12/13/2017	ND<5	FALSE
GWC-19R	6/19/2018	ND<5	FALSE
GWC-19R	12/18/2018	ND<5	FALSE
GWC-19R	6/11/2019	ND<5	FALSE
GWC-19R	12/9/2019	ND<5	FALSE

GWC-22	6/10/2014	ND<5	FALSE
GWC-22	12/8/2014	ND<5	FALSE
GWC-22	6/22/2015	ND<5	FALSE
GWC-22	12/9/2015	ND<5	FALSE
GWC-22	6/15/2016	ND<5	FALSE
GWC-22	12/6/2016	ND<5	FALSE
GWC-22	6/14/2017	ND<5	FALSE
GWC-22	12/11/2017	ND<5	FALSE
GWC-22	6/19/2018	ND<5	FALSE
GWC-22	12/18/2018	ND<5	FALSE
GWC-22	6/12/2019	ND<5	FALSE
GWC-22	12/11/2019	ND<5	FALSE

GWC-4A	6/10/2014	ND<5	FALSE
GWC-4A	12/11/2014	ND<5	FALSE
GWC-4A	6/24/2015	ND<5	FALSE
GWC-4A	12/9/2015	ND<5	FALSE
GWC-4A	6/16/2016	ND<5	FALSE

Methylene Chloride

GWC-4A	12/7/2016	ND<5	FALSE
GWC-4A	6/13/2017	ND<5	FALSE
GWC-4A	12/12/2017	ND<5	FALSE
GWC-4A	6/20/2018	ND<5	FALSE
GWC-4A	12/17/2018	ND<5	FALSE
GWC-4A	6/11/2019	ND<5	FALSE
GWC-4A	12/11/2019	ND<5	FALSE

GWC-5	6/10/2014	ND<5	FALSE
GWC-5	12/8/2014	ND<5	FALSE
GWC-5	6/24/2015	ND<5	FALSE
GWC-5	12/7/2015	ND<5	FALSE
GWC-5	6/14/2016	ND<5	FALSE
GWC-5	12/8/2016	ND<5	FALSE
GWC-5	6/12/2017	ND<5	FALSE
GWC-5	12/12/2017	ND<5	FALSE
GWC-5	6/21/2018	ND<5	FALSE
GWC-5	12/18/2018	ND<5	FALSE
GWC-5	6/12/2019	ND<5	FALSE
GWC-5	12/10/2019	ND<5	FALSE

GWC-6	6/10/2014	ND<5	FALSE
GWC-6	12/9/2014	ND<5	FALSE
GWC-6	6/22/2015	ND<5	FALSE
GWC-6	12/8/2015	ND<5	FALSE
GWC-6	6/14/2016	ND<5	FALSE
GWC-6	12/8/2016	ND<5	FALSE
GWC-6	6/12/2017	ND<5	FALSE
GWC-6	12/13/2017	ND<5	FALSE
GWC-6	6/21/2018	ND<5	FALSE
GWC-6	12/19/2018	ND<5	FALSE
GWC-6	6/12/2019	ND<5	FALSE
GWC-6	12/10/2019	ND<5	FALSE

GWC-7	6/10/2014	ND<5	FALSE
GWC-7	12/8/2014	ND<5	FALSE
GWC-7	6/24/2015	ND<5	FALSE
GWC-7	12/7/2015	ND<5	FALSE
GWC-7	6/15/2016	ND<5	FALSE
GWC-7	12/8/2016	ND<5	FALSE
GWC-7	6/12/2017	ND<5	FALSE
GWC-7	12/12/2017	ND<5	FALSE
GWC-7	6/19/2018	ND<5	FALSE
GWC-7	12/18/2018	ND<5	FALSE
GWC-7	6/12/2019	ND<5	FALSE
GWC-7	12/11/2019	ND<5	FALSE

GWC-10	6/11/2014	ND<5	FALSE
GWC-10	12/9/2014	ND<5	FALSE
GWC-10	6/22/2015	ND<5	FALSE
GWC-10	12/7/2015	ND<5	FALSE
GWC-10	6/14/2016	ND<5	FALSE
GWC-10	12/8/2016	ND<5	FALSE

Methylene Chloride

GWC-10	6/15/2017	ND<5	FALSE
GWC-10	12/12/2017	ND<5	FALSE
GWC-10	6/19/2018	ND<5	FALSE
GWC-10	12/17/2018	ND<5	FALSE
GWC-10	6/10/2019	ND<5	FALSE
GWC-10	12/12/2019	ND<5	FALSE

GWC-10A	6/11/2014	ND<5	FALSE
GWC-10A	12/9/2014	ND<5	FALSE
GWC-10A	6/22/2015	ND<5	FALSE
GWC-10A	12/7/2015	ND<5	FALSE
GWC-10A	6/14/2016	ND<5	FALSE
GWC-10A	12/8/2016	ND<5	FALSE
GWC-10A	6/15/2017	ND<5	FALSE
GWC-10A	12/12/2017	ND<5	FALSE
GWC-10A	6/19/2018	ND<5	FALSE
GWC-10A	12/17/2018	ND<5	FALSE
GWC-10A	6/10/2019	ND<5	FALSE
GWC-10A	12/12/2019	ND<5	FALSE

GWC-14	6/11/2014	ND<5	FALSE
GWC-14	12/10/2014	ND<5	FALSE
GWC-14	6/24/2015	ND<5	FALSE
GWC-14	12/9/2015	ND<5	FALSE
GWC-14	6/15/2016	ND<5	FALSE
GWC-14	6/13/2017	ND<5	FALSE
GWC-14	6/20/2018	ND<5	FALSE
GWC-14	6/11/2019	ND<5	FALSE
GWC-14	12/10/2019	ND<5	FALSE

GWC-14A	6/11/2014	ND<5	FALSE
GWC-14A	12/10/2014	ND<5	FALSE
GWC-14A	6/23/2015	ND<5	FALSE
GWC-14A	12/9/2015	ND<5	FALSE
GWC-14A	6/15/2016	ND<5	FALSE
GWC-14A	12/8/2016	ND<5	FALSE
GWC-14A	6/13/2017	ND<5	FALSE
GWC-14A	12/12/2017	ND<5	FALSE
GWC-14A	6/20/2018	ND<5	FALSE
GWC-14A	12/19/2018	ND<5	FALSE
GWC-14A	6/11/2019	ND<5	FALSE
GWC-14A	12/10/2019	ND<5	FALSE

GWC-14R	6/11/2014	ND<5	FALSE
GWC-14R	12/10/2014	ND<5	FALSE
GWC-14R	6/23/2015	ND<5	FALSE
GWC-14R	12/10/2015	ND<5	FALSE
GWC-14R	6/15/2016	ND<5	FALSE
GWC-14R	12/8/2016	ND<5	FALSE
GWC-14R	6/13/2017	ND<5	FALSE
GWC-14R	12/12/2017	ND<5	FALSE
GWC-14R	6/20/2018	ND<5	FALSE
GWC-14R	12/19/2018	ND<5	FALSE

Methylene Chloride

GWC-14R	6/12/2019	ND<5	FALSE
GWC-14R	12/10/2019	ND<5	FALSE

GWC-23A	6/11/2014	ND<5	FALSE
GWC-23A	12/8/2014	ND<5	FALSE
GWC-23A	6/22/2015	ND<5	FALSE
GWC-23A	12/8/2015	ND<5	FALSE
GWC-23A	6/15/2016	ND<5	FALSE
GWC-23A	12/6/2016	ND<5	FALSE
GWC-23A	6/14/2017	ND<5	FALSE
GWC-23A	12/11/2017	ND<5	FALSE
GWC-23A	6/18/2018	ND<5	FALSE
GWC-23A	12/18/2018	ND<5	FALSE
GWC-23A	6/12/2019	ND<5	FALSE
GWC-23A	12/11/2019	ND<5	FALSE

GWC-24	6/11/2014	ND<5	FALSE
GWC-24	12/10/2014	ND<5	FALSE
GWC-24	6/22/2015	ND<5	FALSE
GWC-24	12/8/2015	ND<5	FALSE
GWC-24	6/13/2016	ND<5	FALSE
GWC-24	12/7/2016	ND<5	FALSE
GWC-24	6/14/2017	ND<5	FALSE
GWC-24	12/13/2017	ND<5	FALSE
GWC-24	6/19/2018	ND<5	FALSE
GWC-24	12/19/2018	ND<5	FALSE
GWC-24	6/11/2019	ND<5	FALSE
GWC-24	12/9/2019	ND<5	FALSE

GWC-3	6/11/2014	ND<5	FALSE
GWC-3	6/24/2015	ND<5	FALSE
GWC-3	12/9/2015	ND<5	FALSE
GWC-3	6/14/2016	ND<5	FALSE
GWC-3	12/8/2016	ND<5	FALSE
GWC-3	6/15/2017	ND<5	FALSE
GWC-3	6/21/2018	ND<5	FALSE
GWC-3	12/17/2018	ND<5	FALSE
GWC-3	6/11/2019	ND<5	FALSE
GWC-3	12/10/2019	ND<5	FALSE

GWC-3A	6/11/2014	ND<5	FALSE
GWC-3A	12/11/2014	ND<5	FALSE
GWC-3A	6/24/2015	ND<5	FALSE
GWC-3A	12/9/2015	ND<5	FALSE
GWC-3A	6/14/2016	ND<5	FALSE
GWC-3A	12/8/2016	ND<5	FALSE
GWC-3A	6/15/2017	ND<5	FALSE
GWC-3A	12/12/2017	ND<5	FALSE
GWC-3A	6/20/2018	ND<5	FALSE
GWC-3A	12/17/2018	ND<5	FALSE
GWC-3A	6/11/2019	ND<5	FALSE
GWC-3A	12/10/2019	ND<5	FALSE

Methylene Chloride

GWC-8	6/11/2014	ND<5	FALSE
GWC-8	12/10/2014	ND<5	FALSE
GWC-8	6/23/2015	ND<5	FALSE
GWC-8	12/10/2015	ND<5	FALSE
GWC-8	6/15/2016	ND<5	FALSE
GWC-8	12/8/2016	ND<5	FALSE
GWC-8	12/12/2017	ND<5	FALSE
GWC-8	6/20/2018	ND<5	FALSE
GWC-8	12/19/2018	ND<5	FALSE
GWC-8	6/12/2019	ND<5	FALSE
GWC-8	12/11/2019	ND<5	FALSE

GWC-8A	6/11/2014	ND<5	FALSE
GWC-8A	12/10/2014	ND<5	FALSE
GWC-8A	6/24/2015	ND<5	FALSE
GWC-8A	12/10/2015	ND<5	FALSE
GWC-8A	6/15/2016	ND<5	FALSE
GWC-8A	12/8/2016	ND<5	FALSE
GWC-8A	6/13/2017	ND<5	FALSE
GWC-8A	12/12/2017	ND<5	FALSE
GWC-8A	6/20/2018	ND<5	FALSE
GWC-8A	12/19/2018	ND<5	FALSE
GWC-8A	6/12/2019	ND<5	FALSE
GWC-8A	12/11/2019	ND<5	FALSE

GWC-8R	6/11/2014	ND<5	FALSE
GWC-8R	12/10/2014	ND<5	FALSE
GWC-8R	6/23/2015	ND<5	FALSE
GWC-8R	12/10/2015	ND<5	FALSE
GWC-8R	6/15/2016	ND<5	FALSE
GWC-8R	12/8/2016	ND<5	FALSE
GWC-8R	6/13/2017	ND<5	FALSE
GWC-8R	12/12/2017	ND<5	FALSE
GWC-8R	6/20/2018	ND<5	FALSE
GWC-8R	12/19/2018	ND<5	FALSE
GWC-8R	6/12/2019	ND<5	FALSE
GWC-8R	12/11/2019	ND<5	FALSE

GWC-9	6/11/2014	ND<5	FALSE
GWC-9	12/11/2014	ND<5	FALSE
GWC-9	6/22/2015	ND<5	FALSE
GWC-9	12/8/2015	ND<5	FALSE
GWC-9	6/14/2016	ND<5	FALSE
GWC-9	12/8/2016	ND<5	FALSE
GWC-9	6/15/2017	ND<5	FALSE
GWC-9	12/13/2017	ND<5	FALSE
GWC-9	6/20/2018	ND<5	FALSE
GWC-9	12/18/2018	ND<5	FALSE
GWC-9	6/12/2019	ND<5	FALSE
GWC-9	12/12/2019	ND<5	FALSE

GWC-16A 6/12/2014 9.5 TRUE

Methylene Chloride

GWC-16A	12/10/2014	ND<5	FALSE
GWC-16A	6/24/2015	ND<5	FALSE
GWC-16A	12/9/2015	ND<5	FALSE
GWC-16A	6/16/2016	ND<5	FALSE
GWC-16A	12/7/2016	ND<5	FALSE
GWC-16A	6/14/2017	6.3	TRUE
GWC-16A	12/13/2017	ND<5	FALSE
GWC-16A	6/21/2018	ND<5	FALSE
GWC-16A	12/19/2018	ND<5	FALSE
GWC-16A	6/13/2019	ND<5	FALSE
GWC-16A	12/11/2019	ND<5	FALSE

GWC-2	6/12/2014	ND<5	FALSE
GWC-2	12/11/2014	ND<5	FALSE
GWC-2	6/24/2015	ND<5	FALSE
GWC-2	12/9/2015	ND<5	FALSE
GWC-2	6/14/2016	ND<5	FALSE
GWC-2	12/8/2016	ND<5	FALSE
GWC-2	6/15/2017	ND<5	FALSE
GWC-2	12/13/2017	ND<5	FALSE
GWC-2	6/20/2018	ND<5	FALSE
GWC-2	12/19/2018	ND<5	FALSE
GWC-2	6/12/2019	ND<5	FALSE
GWC-2	12/10/2019	ND<5	FALSE

GWC-23	6/12/2014	ND<5	FALSE
GWC-23	12/8/2014	ND<5	FALSE
GWC-23	6/22/2015	ND<5	FALSE
GWC-23	12/8/2015	ND<5	FALSE
GWC-23	6/15/2016	ND<5	FALSE
GWC-23	12/6/2016	ND<5	FALSE
GWC-23	6/14/2017	ND<5	FALSE
GWC-23	12/11/2017	ND<5	FALSE
GWC-23	6/18/2018	ND<5	FALSE
GWC-23	12/18/2018	ND<5	FALSE
GWC-23	6/12/2019	ND<5	FALSE
GWC-23	12/11/2019	ND<5	FALSE

GWC-4	6/12/2014	ND<5	FALSE
GWC-4	12/11/2014	ND<5	FALSE
GWC-4	6/24/2015	ND<5	FALSE
GWC-4	12/9/2015	ND<5	FALSE
GWC-4	6/16/2016	ND<5	FALSE
GWC-4	12/7/2016	ND<5	FALSE
GWC-4	6/20/2018	ND<5	FALSE

Tetrachloroethene

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 90.6566%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
<hr/>			
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
<hr/>			
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
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GWC-12A	12/9/2014	ND<2	FALSE

Tetrachloroethene

GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE

GWC-13	6/9/2014	ND<2	FALSE
GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE

GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE

GWC-18	6/9/2014	14	TRUE
GWC-18	12/10/2014	14	TRUE
GWC-18	6/22/2015	10	TRUE
GWC-18	12/9/2015	9	TRUE
GWC-18	6/13/2016	4	TRUE
GWC-18	12/6/2016	6.6	TRUE
GWC-18	6/14/2017	4.1	TRUE
GWC-18	12/13/2017	6.5	TRUE
GWC-18	6/19/2018	4.6	TRUE
GWC-18	12/18/2018	7	TRUE
GWC-18	6/11/2019	3.9	TRUE
GWC-18	12/9/2019	7.4	TRUE

GWA-1A	6/10/2014	ND<2	FALSE
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE

Tetrachloroethene

GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE

GWC-15	6/10/2014	17	TRUE
GWC-15	12/10/2014	8.5	TRUE
GWC-15	6/23/2015	11	TRUE
GWC-15	12/9/2015	6.1	TRUE
GWC-15	6/15/2016	9	TRUE
GWC-15	12/8/2016	16	TRUE
GWC-15	6/14/2017	7.3	TRUE
GWC-15	12/13/2017	2.7	TRUE
GWC-15	6/19/2018	5	TRUE
GWC-15	12/19/2018	9.7	TRUE
GWC-15	6/11/2019	50	TRUE
GWC-15	12/10/2019	31	TRUE

GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
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GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE

GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE

Tetrachloroethene

GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE

GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
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GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE

GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE

GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
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GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE

Tetrachloroethene

GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE

GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE

GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE

GWC-14A	6/11/2014	ND<2	FALSE
GWC-14A	12/10/2014	ND<2	FALSE
GWC-14A	6/23/2015	ND<2	FALSE
GWC-14A	12/9/2015	ND<2	FALSE
GWC-14A	6/15/2016	ND<2	FALSE
GWC-14A	12/8/2016	ND<2	FALSE
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GWC-14A	12/12/2017	ND<2	FALSE
GWC-14A	6/20/2018	ND<2	FALSE
GWC-14A	12/19/2018	ND<2	FALSE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	ND<2	FALSE

GWC-14R	6/11/2014	5.9	TRUE
GWC-14R	12/10/2014	4.4	TRUE
GWC-14R	6/23/2015	3.5	TRUE
GWC-14R	12/10/2015	2.8	TRUE
GWC-14R	6/15/2016	2.2	TRUE
GWC-14R	12/8/2016	2.5	TRUE
GWC-14R	6/13/2017	3.2	TRUE
GWC-14R	12/12/2017	2	FALSE
GWC-14R	6/20/2018	2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE

Tetrachloroethene

GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE

GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE

GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE

GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE

Tetrachloroethene

GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE

GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

GWC-8R	6/11/2014	ND<2	FALSE
GWC-8R	12/10/2014	ND<2	FALSE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE

GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	ND<2	FALSE
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Tetrachloroethene

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	12/9/2015	3.7	TRUE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	6.3	TRUE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE

GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE

GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE

GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Toluene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
<hr/>			
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
<hr/>			
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
<hr/>			
GWC-12A	6/9/2014	ND<2	FALSE
GWC-12A	12/9/2014	ND<2	FALSE

GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE

GWC-13	6/9/2014	ND<2	FALSE
GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE

GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE

GWC-18	6/9/2014	ND<2	FALSE
GWC-18	12/10/2014	ND<2	FALSE
GWC-18	6/22/2015	ND<2	FALSE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE

GWA-1A	6/10/2014	ND<2	FALSE
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE

Toluene

GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE

GWC-15	6/10/2014	ND<2	FALSE
GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
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GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE

GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
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GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE

GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE

Toluene

GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE

GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
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GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
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GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
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GWC-6	6/14/2016	ND<2	FALSE
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GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE

GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
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GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE

Toluene

GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE

GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
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GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE

GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE

GWC-14A	6/11/2014	ND<2	FALSE
GWC-14A	12/10/2014	ND<2	FALSE
GWC-14A	6/23/2015	ND<2	FALSE
GWC-14A	12/9/2015	ND<2	FALSE
GWC-14A	6/15/2016	ND<2	FALSE
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GWC-14A	12/19/2018	ND<2	FALSE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	ND<2	FALSE

GWC-14R	6/11/2014	ND<2	FALSE
GWC-14R	12/10/2014	ND<2	FALSE
GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
GWC-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE

Toluene

GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE

GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
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GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE

GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE

GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE

Toluene

GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE

GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
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GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

GWC-8R	6/11/2014	ND<2	FALSE
GWC-8R	12/10/2014	ND<2	FALSE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
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GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE

GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
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GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	ND<2	FALSE
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Toluene

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	12/9/2015	4.3	TRUE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	3.2	TRUE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE

GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE

GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE

GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE

Total Barium

Non-Parametric Tolerance Interval

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 32.0442%

Background measurements (n) = 24

Maximum Background Concentration = 39.5

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/10/2014	31	FALSE
GWA-1A	12/8/2014	38	FALSE
GWA-1A	6/23/2015	38	FALSE
GWA-1A	12/8/2015	34	FALSE
GWA-1A	6/14/2016	35	FALSE
GWA-1A	12/7/2016	33	FALSE
GWA-1A	6/12/2017	36	FALSE
GWA-1A	12/13/2017	33	FALSE
GWA-1A	6/20/2018	30	FALSE
GWA-1A	12/18/2018	32	FALSE
GWA-1A	6/10/2019	41	TRUE
GWA-1A	12/9/2019	30	FALSE

GWA-3	6/10/2014	ND<20	FALSE
GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	ND<20	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	22.9	FALSE

GWC-11	6/10/2014	28	FALSE
GWC-11	12/10/2014	25	FALSE
GWC-11	6/23/2015	28	FALSE
GWC-11	12/8/2015	27	FALSE
GWC-11	6/15/2016	24	FALSE
GWC-11	12/8/2016	22	FALSE
GWC-11	6/15/2017	24	FALSE
GWC-11	12/14/2017	42	TRUE
GWC-11	6/20/2018	21	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	40	TRUE
GWC-11	12/13/2019	35.9	FALSE

GWC-12	6/10/2014	34	FALSE
GWC-12	12/10/2014	21	FALSE

Total Barium

GWC-12	6/23/2015	26	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	34	FALSE
GWC-12	6/12/2019	20	FALSE
GWC-12	12/10/2019	ND<20	FALSE

GWC-12A	6/10/2014	ND<20	FALSE
GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
GWC-12A	12/8/2016	ND<20	FALSE
GWC-12A	6/15/2017	ND<20	FALSE
GWC-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	ND<20	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE

GWC-13	6/10/2014	ND<20	FALSE
GWC-13	12/12/2014	31	FALSE
GWC-13	6/23/2015	37	FALSE
GWC-13	12/8/2015	34	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	36	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-13	12/12/2019	32.7	FALSE

GWC-17	6/10/2014	37	FALSE
GWC-17	12/11/2014	65	TRUE
GWC-17	6/23/2015	43	TRUE
GWC-17	12/8/2015	41	TRUE
GWC-17	6/14/2016	38	FALSE
GWC-17	6/15/2017	45	TRUE
GWC-17	12/13/2017	35	FALSE
GWC-17	6/20/2018	34	FALSE
GWC-17	12/20/2018	69	TRUE
GWC-17	6/13/2019	43	TRUE
GWC-17	12/11/2019	37.1	FALSE

GWC-18	6/10/2014	170	TRUE
GWC-18	12/11/2014	160	TRUE
GWC-18	6/23/2015	220	TRUE
GWC-18	12/10/2015	140	TRUE

Total Barium

GWC-18	6/14/2016	250	TRUE
GWC-18	12/7/2016	180	TRUE
GWC-18	6/15/2017	180	TRUE
GWC-18	12/14/2017	150	TRUE
GWC-18	6/20/2018	280	TRUE
GWC-18	12/19/2018	140	TRUE
GWC-18	6/12/2019	230	TRUE
GWC-18	12/10/2019	181	TRUE

GWC-14	6/11/2014	29	FALSE
GWC-14	12/11/2014	52	TRUE
GWC-14	6/24/2015	58	TRUE
GWC-14	12/10/2015	62	TRUE
GWC-14	6/15/2016	26	FALSE
GWC-14	6/21/2018	35	FALSE
GWC-14	6/12/2019	35	FALSE
GWC-14	12/11/2019	41.2	TRUE

GWC-14A	6/11/2014	190	TRUE
GWC-14A	12/10/2014	220	TRUE
GWC-14A	6/24/2015	210	TRUE
GWC-14A	12/10/2015	200	TRUE
GWC-14A	6/16/2016	200	TRUE
GWC-14A	12/8/2016	220	TRUE
GWC-14A	6/13/2017	210	TRUE
GWC-14A	12/13/2017	180	TRUE
GWC-14A	6/21/2018	190	TRUE
GWC-14A	12/19/2018	180	TRUE
GWC-14A	6/12/2019	170	TRUE
GWC-14A	12/11/2019	170	TRUE

GWC-15	6/11/2014	23	FALSE
GWC-15	12/11/2014	63	TRUE
GWC-15	6/24/2015	87	TRUE
GWC-15	12/9/2015	94	TRUE
GWC-15	6/16/2016	61	TRUE
GWC-15	12/8/2016	60	TRUE
GWC-15	6/14/2017	120	TRUE
GWC-15	12/14/2017	99	TRUE
GWC-15	6/20/2018	98	TRUE
GWC-15	12/19/2018	58	TRUE
GWC-15	6/11/2019	60	TRUE
GWC-15	12/10/2019	42.3	TRUE

GWC-19R	6/11/2014	91	TRUE
GWC-19R	12/11/2014	120	TRUE
GWC-19R	6/23/2015	94	TRUE
GWC-19R	12/10/2015	100	TRUE
GWC-19R	6/16/2016	93	TRUE
GWC-19R	12/7/2016	130	TRUE
GWC-19R	6/15/2017	97	TRUE
GWC-19R	12/14/2017	120	TRUE
GWC-19R	6/20/2018	81	TRUE

Total Barium

GWC-19R	12/19/2018	160	TRUE
GWC-19R	6/12/2019	97	TRUE
GWC-19R	12/10/2019	89.2	TRUE

GWC-22	6/11/2014	40	TRUE
GWC-22	12/9/2014	23	FALSE
GWC-22	6/23/2015	24	FALSE
GWC-22	12/10/2015	24	FALSE
GWC-22	6/16/2016	25	FALSE
GWC-22	12/7/2016	23	FALSE
GWC-22	6/15/2017	28	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	24	FALSE
GWC-22	12/19/2018	21	FALSE
GWC-22	6/13/2019	21	FALSE
GWC-22	12/12/2019	21.5	FALSE

GWC-23A	6/11/2014	ND<20	FALSE
GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
GWC-23A	6/15/2017	ND<20	FALSE
GWC-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE
GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	ND<20	FALSE

GWC-4A	6/11/2014	64	TRUE
GWC-4A	12/12/2014	45	TRUE
GWC-4A	6/25/2015	22	FALSE
GWC-4A	12/10/2015	39	FALSE
GWC-4A	6/17/2016	ND<20	FALSE
GWC-4A	12/8/2016	59	TRUE
GWC-4A	6/14/2017	33	FALSE
GWC-4A	12/13/2017	81	TRUE
GWC-4A	6/21/2018	22	FALSE
GWC-4A	12/18/2018	25	FALSE
GWC-4A	6/12/2019	74	TRUE
GWC-4A	12/12/2019	ND<20	FALSE

GWC-5	6/11/2014	ND<20	FALSE
GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	ND<20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE

Total Barium

GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
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GWC-6	6/11/2014	ND<20	FALSE
GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	37	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE
<hr/>			
GWC-7	6/11/2014	52	TRUE
GWC-7	12/9/2014	55	TRUE
GWC-7	6/25/2015	54	TRUE
GWC-7	12/8/2015	47	TRUE
GWC-7	6/16/2016	46	TRUE
GWC-7	12/9/2016	46	TRUE
GWC-7	6/13/2017	52	TRUE
GWC-7	12/13/2017	46	TRUE
GWC-7	6/20/2018	49	TRUE
GWC-7	12/19/2018	51	TRUE
GWC-7	6/13/2019	48	TRUE
GWC-7	12/12/2019	49.9	TRUE
<hr/>			
GWC-10	6/12/2014	ND<20	FALSE
GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	22	FALSE
GWC-10	12/8/2015	ND<20	FALSE
GWC-10	6/15/2016	21	FALSE
GWC-10	12/9/2016	20	FALSE
GWC-10	6/16/2017	20	FALSE
GWC-10	12/13/2017	48	TRUE
GWC-10	6/20/2018	ND<20	FALSE
GWC-10	12/18/2018	ND<20	FALSE
GWC-10	6/11/2019	22	FALSE
GWC-10	12/13/2019	ND<20	FALSE
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GWC-10A	6/12/2014	20	FALSE
GWC-10A	12/10/2014	27	FALSE
GWC-10A	6/23/2015	27	FALSE
GWC-10A	12/8/2015	27	FALSE
GWC-10A	6/15/2016	29	FALSE
GWC-10A	12/9/2016	31	FALSE
GWC-10A	6/16/2017	31	FALSE
GWC-10A	12/13/2017	32	FALSE
GWC-10A	6/20/2018	34	FALSE
GWC-10A	12/18/2018	35	FALSE
GWC-10A	6/11/2019	33	FALSE

Total Barium

GWC-10A	12/13/2019	35.2	FALSE
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GWC-23	6/12/2014	ND<20	FALSE
GWC-23	12/9/2014	ND<20	FALSE
GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
<hr/>			
GWC-24	6/12/2014	ND<20	FALSE
GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	27	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	20	FALSE
GWC-24	12/10/2019	27.4	FALSE
<hr/>			
GWC-3	6/12/2014	21	FALSE
GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	ND<20	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3	12/11/2019	ND<20	FALSE
<hr/>			
GWC-3A	6/12/2014	33	FALSE
GWC-3A	12/12/2014	40	TRUE
GWC-3A	6/25/2015	39	FALSE
GWC-3A	12/10/2015	40	TRUE
GWC-3A	6/15/2016	38	FALSE
GWC-3A	12/9/2016	43	TRUE
GWC-3A	6/16/2017	40	TRUE
GWC-3A	12/13/2017	38	FALSE
GWC-3A	6/21/2018	39	FALSE
GWC-3A	12/18/2018	38	FALSE
GWC-3A	6/12/2019	46	TRUE
GWC-3A	12/11/2019	40.7	TRUE
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GWC-8	6/12/2014	38	FALSE
GWC-8	12/11/2014	25	FALSE
GWC-8	6/24/2015	20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	22	FALSE
GWC-8	12/9/2016	22	FALSE
GWC-8	12/13/2017	23	FALSE

Total Barium

GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	30	FALSE
GWC-8	12/12/2019	28.6	FALSE

GWC-8A	6/12/2014	41	TRUE
GWC-8A	12/11/2014	43	TRUE
GWC-8A	6/24/2015	50	TRUE
GWC-8A	12/10/2015	41	TRUE
GWC-8A	6/16/2016	40	TRUE
GWC-8A	12/9/2016	55	TRUE
GWC-8A	6/14/2017	66	TRUE
GWC-8A	12/13/2017	42	TRUE
GWC-8A	6/21/2018	51	TRUE
GWC-8A	12/20/2018	55	TRUE
GWC-8A	6/13/2019	33	FALSE
GWC-8A	12/12/2019	56	TRUE

GWC-9	6/12/2014	89	TRUE
GWC-9	12/12/2014	59	TRUE
GWC-9	6/23/2015	110	TRUE
GWC-9	12/9/2015	52	TRUE
GWC-9	6/15/2016	80	TRUE
GWC-9	12/9/2016	67	TRUE
GWC-9	6/16/2017	58	TRUE
GWC-9	12/14/2017	54	TRUE
GWC-9	6/21/2018	73	TRUE
GWC-9	12/19/2018	53	TRUE
GWC-9	6/13/2019	80	TRUE
GWC-9	12/13/2019	67.9	TRUE

GWC-16A	6/13/2014	210	TRUE
GWC-16A	12/11/2014	32	FALSE
GWC-16A	6/24/2015	41	TRUE
GWC-16A	12/10/2015	260	TRUE
GWC-16A	6/17/2016	29	FALSE
GWC-16A	12/8/2016	35	FALSE
GWC-16A	6/15/2017	170	TRUE
GWC-16A	12/14/2017	29	FALSE
GWC-16A	6/21/2018	34	FALSE
GWC-16A	12/20/2018	24	FALSE
GWC-16A	6/13/2019	26	FALSE
GWC-16A	12/12/2019	26.7	FALSE

GWC-2	6/13/2014	ND<20	FALSE
GWC-2	12/12/2014	22	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE

Total Barium

GWC-2	6/13/2019	ND<20	FALSE
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GWC-4	6/13/2014	21	FALSE
GWC-4	12/12/2014	24	FALSE
GWC-4	6/25/2015	24	FALSE
GWC-4	12/10/2015	23	FALSE
GWC-4	6/17/2016	24	FALSE
GWC-4	12/8/2016	25	FALSE
GWC-4	6/21/2018	20	FALSE

Total Chromium

Non-Parametric Tolerance Interval

Parameter: Total Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.3425%

Background measurements (n) = 24

Maximum Background Concentration = 10

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/10/2014	ND<10	FALSE
GWA-1A	12/8/2014	ND<10	FALSE
GWA-1A	6/23/2015	ND<10	FALSE
GWA-1A	12/8/2015	ND<10	FALSE
GWA-1A	6/14/2016	ND<10	FALSE
GWA-1A	12/7/2016	ND<10	FALSE
GWA-1A	6/12/2017	ND<10	FALSE
GWA-1A	12/13/2017	ND<10	FALSE
GWA-1A	6/20/2018	ND<10	FALSE
GWA-1A	12/18/2018	ND<10	FALSE
GWA-1A	6/10/2019	ND<10	FALSE
GWA-1A	12/9/2019	ND<10	FALSE
<hr/>			
GWA-3	6/10/2014	ND<10	FALSE
GWA-3	12/9/2014	ND<10	FALSE
GWA-3	6/23/2015	ND<10	FALSE
GWA-3	12/8/2015	ND<10	FALSE
GWA-3	6/14/2016	ND<10	FALSE
GWA-3	12/9/2016	ND<10	FALSE
GWA-3	6/15/2017	ND<10	FALSE
GWA-3	12/12/2017	ND<10	FALSE
GWA-3	6/19/2018	ND<10	FALSE
GWA-3	12/18/2018	ND<10	FALSE
GWA-3	6/12/2019	ND<10	FALSE
GWA-3	12/11/2019	ND<10	FALSE
<hr/>			
GWC-11	6/10/2014	ND<10	FALSE
GWC-11	12/10/2014	ND<10	FALSE
GWC-11	6/23/2015	ND<10	FALSE
GWC-11	12/8/2015	ND<10	FALSE
GWC-11	6/15/2016	ND<10	FALSE
GWC-11	12/8/2016	ND<10	FALSE
GWC-11	6/15/2017	ND<10	FALSE
GWC-11	12/14/2017	ND<10	FALSE
GWC-11	6/20/2018	ND<10	FALSE
GWC-11	12/20/2018	ND<10	FALSE
GWC-11	6/13/2019	ND<10	FALSE
GWC-11	12/13/2019	ND<10	FALSE
<hr/>			
GWC-12	6/10/2014	ND<10	FALSE
GWC-12	12/10/2014	ND<10	FALSE

Total Chromium

GWC-12	6/23/2015	ND<10	FALSE
GWC-12	12/8/2015	ND<10	FALSE
GWC-12	6/15/2016	ND<10	FALSE
GWC-12	12/8/2016	ND<10	FALSE
GWC-12	6/15/2017	ND<10	FALSE
GWC-12	12/14/2017	ND<10	FALSE
GWC-12	6/20/2018	ND<10	FALSE
GWC-12	12/20/2018	ND<10	FALSE
GWC-12	6/12/2019	ND<10	FALSE
GWC-12	12/10/2019	ND<10	FALSE

GWC-12A	6/10/2014	ND<10	FALSE
GWC-12A	12/10/2014	ND<10	FALSE
GWC-12A	6/23/2015	ND<10	FALSE
GWC-12A	12/8/2015	ND<10	FALSE
GWC-12A	6/15/2016	ND<10	FALSE
GWC-12A	12/8/2016	ND<10	FALSE
GWC-12A	6/15/2017	ND<10	FALSE
GWC-12A	12/14/2017	ND<10	FALSE
GWC-12A	6/20/2018	ND<10	FALSE
GWC-12A	12/20/2018	ND<10	FALSE
GWC-12A	6/12/2019	ND<10	FALSE
GWC-12A	12/10/2019	ND<10	FALSE

GWC-13	6/10/2014	ND<10	FALSE
GWC-13	12/12/2014	ND<10	FALSE
GWC-13	6/23/2015	ND<10	FALSE
GWC-13	12/8/2015	ND<10	FALSE
GWC-13	6/16/2016	ND<10	FALSE
GWC-13	12/8/2016	ND<10	FALSE
GWC-13	6/15/2017	ND<10	FALSE
GWC-13	12/13/2017	ND<10	FALSE
GWC-13	6/20/2018	ND<10	FALSE
GWC-13	12/20/2018	ND<10	FALSE
GWC-13	6/13/2019	ND<10	FALSE
GWC-13	12/12/2019	ND<10	FALSE

GWC-17	6/10/2014	ND<10	FALSE
GWC-17	12/11/2014	ND<10	FALSE
GWC-17	6/23/2015	ND<10	FALSE
GWC-17	12/8/2015	ND<10	FALSE
GWC-17	6/14/2016	ND<10	FALSE
GWC-17	6/15/2017	ND<10	FALSE
GWC-17	12/13/2017	ND<10	FALSE
GWC-17	6/20/2018	ND<10	FALSE
GWC-17	12/20/2018	ND<10	FALSE
GWC-17	6/13/2019	ND<10	FALSE
GWC-17	12/11/2019	ND<10	FALSE

GWC-18	6/10/2014	ND<10	FALSE
GWC-18	12/11/2014	ND<10	FALSE
GWC-18	6/23/2015	ND<10	FALSE
GWC-18	12/10/2015	ND<10	FALSE

Total Chromium

GWC-18	6/14/2016	ND<10	FALSE
GWC-18	12/7/2016	ND<10	FALSE
GWC-18	6/15/2017	ND<10	FALSE
GWC-18	12/14/2017	ND<10	FALSE
GWC-18	6/20/2018	ND<10	FALSE
GWC-18	12/19/2018	ND<10	FALSE
GWC-18	6/12/2019	ND<10	FALSE
GWC-18	12/10/2019	ND<10	FALSE

GWC-14	6/11/2014	ND<10	FALSE
GWC-14	12/11/2014	ND<10	FALSE
GWC-14	6/24/2015	ND<10	FALSE
GWC-14	12/10/2015	ND<10	FALSE
GWC-14	6/15/2016	ND<10	FALSE
GWC-14	6/21/2018	ND<10	FALSE
GWC-14	6/12/2019	ND<10	FALSE
GWC-14	12/11/2019	ND<10	FALSE

GWC-14A	6/11/2014	ND<10	FALSE
GWC-14A	12/10/2014	ND<10	FALSE
GWC-14A	6/24/2015	ND<10	FALSE
GWC-14A	12/10/2015	ND<10	FALSE
GWC-14A	6/16/2016	ND<10	FALSE
GWC-14A	12/8/2016	ND<10	FALSE
GWC-14A	6/13/2017	ND<10	FALSE
GWC-14A	12/13/2017	ND<10	FALSE
GWC-14A	6/21/2018	ND<10	FALSE
GWC-14A	12/19/2018	ND<10	FALSE
GWC-14A	6/12/2019	ND<10	FALSE
GWC-14A	12/11/2019	ND<10	FALSE

GWC-15	6/11/2014	ND<10	FALSE
GWC-15	12/11/2014	ND<10	FALSE
GWC-15	6/24/2015	ND<10	FALSE
GWC-15	12/9/2015	ND<10	FALSE
GWC-15	6/16/2016	ND<10	FALSE
GWC-15	12/8/2016	ND<10	FALSE
GWC-15	6/14/2017	ND<10	FALSE
GWC-15	12/14/2017	ND<10	FALSE
GWC-15	6/20/2018	ND<10	FALSE
GWC-15	12/19/2018	ND<10	FALSE
GWC-15	6/11/2019	ND<10	FALSE
GWC-15	12/10/2019	ND<10	FALSE

GWC-19R	6/11/2014	ND<10	FALSE
GWC-19R	12/11/2014	ND<10	FALSE
GWC-19R	6/23/2015	ND<10	FALSE
GWC-19R	12/10/2015	ND<10	FALSE
GWC-19R	6/16/2016	ND<10	FALSE
GWC-19R	12/7/2016	ND<10	FALSE
GWC-19R	6/15/2017	ND<10	FALSE
GWC-19R	12/14/2017	ND<10	FALSE
GWC-19R	6/20/2018	ND<10	FALSE

Total Chromium

GWC-19R	12/19/2018	ND<10	FALSE
GWC-19R	6/12/2019	ND<10	FALSE
GWC-19R	12/10/2019	ND<10	FALSE

GWC-22	6/11/2014	ND<10	FALSE
GWC-22	12/9/2014	ND<10	FALSE
GWC-22	6/23/2015	ND<10	FALSE
GWC-22	12/10/2015	ND<10	FALSE
GWC-22	6/16/2016	ND<10	FALSE
GWC-22	12/7/2016	ND<10	FALSE
GWC-22	6/15/2017	ND<10	FALSE
GWC-22	12/12/2017	ND<10	FALSE
GWC-22	6/20/2018	ND<10	FALSE
GWC-22	12/19/2018	ND<10	FALSE
GWC-22	6/13/2019	ND<10	FALSE
GWC-22	12/12/2019	ND<10	FALSE

GWC-23A	6/11/2014	ND<10	FALSE
GWC-23A	12/8/2014	ND<10	FALSE
GWC-23A	6/23/2015	ND<10	FALSE
GWC-23A	12/9/2015	ND<10	FALSE
GWC-23A	6/15/2016	ND<10	FALSE
GWC-23A	12/7/2016	ND<10	FALSE
GWC-23A	6/15/2017	ND<10	FALSE
GWC-23A	12/12/2017	ND<10	FALSE
GWC-23A	6/19/2018	ND<10	FALSE
GWC-23A	12/19/2018	ND<10	FALSE
GWC-23A	6/13/2019	ND<10	FALSE
GWC-23A	12/12/2019	ND<10	FALSE

GWC-4A	6/11/2014	ND<10	FALSE
GWC-4A	12/12/2014	ND<10	FALSE
GWC-4A	6/25/2015	ND<10	FALSE
GWC-4A	12/10/2015	11	TRUE
GWC-4A	6/17/2016	ND<10	FALSE
GWC-4A	12/8/2016	ND<10	FALSE
GWC-4A	6/14/2017	ND<10	FALSE
GWC-4A	12/13/2017	19	TRUE
GWC-4A	6/21/2018	ND<10	FALSE
GWC-4A	12/18/2018	ND<10	FALSE
GWC-4A	6/12/2019	26	TRUE
GWC-4A	12/12/2019	ND<10	FALSE

GWC-5	6/11/2014	ND<10	FALSE
GWC-5	12/9/2014	ND<10	FALSE
GWC-5	6/25/2015	ND<10	FALSE
GWC-5	12/8/2015	ND<10	FALSE
GWC-5	6/15/2016	ND<10	FALSE
GWC-5	12/9/2016	ND<10	FALSE
GWC-5	6/13/2017	ND<10	FALSE
GWC-5	12/13/2017	ND<10	FALSE
GWC-5	6/21/2018	ND<10	FALSE
GWC-5	12/19/2018	ND<10	FALSE

Total Chromium

GWC-5	6/13/2019	ND<10	FALSE
GWC-5	12/11/2019	ND<10	FALSE
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GWC-6	6/11/2014	ND<10	FALSE
GWC-6	12/10/2014	ND<10	FALSE
GWC-6	6/23/2015	ND<10	FALSE
GWC-6	12/9/2015	ND<10	FALSE
GWC-6	6/15/2016	12	TRUE
GWC-6	12/9/2016	ND<10	FALSE
GWC-6	6/13/2017	ND<10	FALSE
GWC-6	12/14/2017	ND<10	FALSE
GWC-6	6/21/2018	ND<10	FALSE
GWC-6	12/20/2018	ND<10	FALSE
GWC-6	6/13/2019	ND<10	FALSE
GWC-6	12/11/2019	ND<10	FALSE
<hr/>			
GWC-7	6/11/2014	ND<10	FALSE
GWC-7	12/9/2014	ND<10	FALSE
GWC-7	6/25/2015	ND<10	FALSE
GWC-7	12/8/2015	ND<10	FALSE
GWC-7	6/16/2016	ND<10	FALSE
GWC-7	12/9/2016	ND<10	FALSE
GWC-7	6/13/2017	ND<10	FALSE
GWC-7	12/13/2017	ND<10	FALSE
GWC-7	6/20/2018	ND<10	FALSE
GWC-7	12/19/2018	ND<10	FALSE
GWC-7	6/13/2019	ND<10	FALSE
GWC-7	12/12/2019	ND<10	FALSE
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GWC-10	6/12/2014	ND<10	FALSE
GWC-10	12/10/2014	ND<10	FALSE
GWC-10	6/23/2015	ND<10	FALSE
GWC-10	12/8/2015	ND<10	FALSE
GWC-10	6/15/2016	ND<10	FALSE
GWC-10	12/9/2016	ND<10	FALSE
GWC-10	6/16/2017	ND<10	FALSE
GWC-10	12/13/2017	ND<10	FALSE
GWC-10	6/20/2018	ND<10	FALSE
GWC-10	12/18/2018	ND<10	FALSE
GWC-10	6/11/2019	ND<10	FALSE
GWC-10	12/13/2019	ND<10	FALSE
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GWC-10A	6/12/2014	ND<10	FALSE
GWC-10A	12/10/2014	ND<10	FALSE
GWC-10A	6/23/2015	ND<10	FALSE
GWC-10A	12/8/2015	ND<10	FALSE
GWC-10A	6/15/2016	ND<10	FALSE
GWC-10A	12/9/2016	ND<10	FALSE
GWC-10A	6/16/2017	ND<10	FALSE
GWC-10A	12/13/2017	ND<10	FALSE
GWC-10A	6/20/2018	ND<10	FALSE
GWC-10A	12/18/2018	ND<10	FALSE
GWC-10A	6/11/2019	ND<10	FALSE

Total Chromium

GWC-10A	12/13/2019	ND<10	FALSE
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GWC-23	6/12/2014	ND<10	FALSE
GWC-23	12/9/2014	ND<10	FALSE
GWC-23	6/23/2015	ND<10	FALSE
GWC-23	12/9/2015	ND<10	FALSE
GWC-23	6/16/2016	ND<10	FALSE
GWC-23	12/7/2016	11	TRUE
GWC-23	6/15/2017	ND<10	FALSE
GWC-23	12/12/2017	ND<10	FALSE
GWC-23	6/19/2018	ND<10	FALSE
GWC-23	12/19/2018	ND<10	FALSE
GWC-23	6/13/2019	ND<10	FALSE
GWC-23	12/12/2019	ND<10	FALSE
<hr/>			
GWC-24	6/12/2014	ND<10	FALSE
GWC-24	6/23/2015	ND<10	FALSE
GWC-24	6/14/2016	ND<10	FALSE
GWC-24	6/15/2017	ND<10	FALSE
GWC-24	6/20/2018	ND<10	FALSE
GWC-24	6/12/2019	ND<10	FALSE
GWC-24	12/10/2019	ND<10	FALSE
<hr/>			
GWC-3	6/12/2014	ND<10	FALSE
GWC-3	6/25/2015	ND<10	FALSE
GWC-3	12/10/2015	ND<10	FALSE
GWC-3	6/15/2016	ND<10	FALSE
GWC-3	6/21/2018	ND<10	FALSE
GWC-3	12/18/2018	ND<10	FALSE
GWC-3	6/12/2019	ND<10	FALSE
GWC-3	12/11/2019	ND<10	FALSE
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GWC-3A	6/12/2014	12	TRUE
GWC-3A	12/12/2014	ND<10	FALSE
GWC-3A	6/25/2015	ND<10	FALSE
GWC-3A	12/10/2015	ND<10	FALSE
GWC-3A	6/15/2016	ND<10	FALSE
GWC-3A	12/9/2016	ND<10	FALSE
GWC-3A	6/16/2017	ND<10	FALSE
GWC-3A	12/13/2017	ND<10	FALSE
GWC-3A	6/21/2018	ND<10	FALSE
GWC-3A	12/18/2018	ND<10	FALSE
GWC-3A	6/12/2019	ND<10	FALSE
GWC-3A	12/11/2019	ND<10	FALSE
<hr/>			
GWC-8	6/12/2014	ND<10	FALSE
GWC-8	12/11/2014	ND<10	FALSE
GWC-8	6/24/2015	ND<10	FALSE
GWC-8	12/10/2015	ND<10	FALSE
GWC-8	6/16/2016	ND<10	FALSE
GWC-8	12/9/2016	ND<10	FALSE
GWC-8	12/13/2017	ND<10	FALSE

Total Chromium

GWC-8	6/21/2018	ND<10	FALSE
GWC-8	6/13/2019	ND<10	FALSE
GWC-8	12/12/2019	ND<10	FALSE

GWC-8A	6/12/2014	ND<10	FALSE
GWC-8A	12/11/2014	ND<10	FALSE
GWC-8A	6/24/2015	ND<10	FALSE
GWC-8A	12/10/2015	ND<10	FALSE
GWC-8A	6/16/2016	ND<10	FALSE
GWC-8A	12/9/2016	ND<10	FALSE
GWC-8A	6/14/2017	ND<10	FALSE
GWC-8A	12/13/2017	ND<10	FALSE
GWC-8A	6/21/2018	ND<10	FALSE
GWC-8A	12/20/2018	ND<10	FALSE
GWC-8A	6/13/2019	ND<10	FALSE
GWC-8A	12/12/2019	ND<10	FALSE

GWC-9	6/12/2014	ND<10	FALSE
GWC-9	12/12/2014	ND<10	FALSE
GWC-9	6/23/2015	ND<10	FALSE
GWC-9	12/9/2015	ND<10	FALSE
GWC-9	6/15/2016	ND<10	FALSE
GWC-9	12/9/2016	ND<10	FALSE
GWC-9	6/16/2017	ND<10	FALSE
GWC-9	12/14/2017	ND<10	FALSE
GWC-9	6/21/2018	ND<10	FALSE
GWC-9	12/19/2018	ND<10	FALSE
GWC-9	6/13/2019	ND<10	FALSE
GWC-9	12/13/2019	ND<10	FALSE

GWC-16A	6/13/2014	ND<10	FALSE
GWC-16A	12/11/2014	ND<10	FALSE
GWC-16A	6/24/2015	ND<10	FALSE
GWC-16A	12/10/2015	ND<10	FALSE
GWC-16A	6/17/2016	ND<10	FALSE
GWC-16A	12/8/2016	ND<10	FALSE
GWC-16A	6/15/2017	ND<10	FALSE
GWC-16A	12/14/2017	ND<10	FALSE
GWC-16A	6/21/2018	ND<10	FALSE
GWC-16A	12/20/2018	ND<10	FALSE
GWC-16A	6/13/2019	ND<10	FALSE
GWC-16A	12/12/2019	ND<10	FALSE

GWC-2	6/13/2014	ND<10	FALSE
GWC-2	12/12/2014	ND<10	FALSE
GWC-2	6/25/2015	ND<10	FALSE
GWC-2	12/10/2015	ND<10	FALSE
GWC-2	6/15/2016	ND<10	FALSE
GWC-2	12/9/2016	ND<10	FALSE
GWC-2	6/16/2017	ND<10	FALSE
GWC-2	12/14/2017	ND<10	FALSE
GWC-2	6/21/2018	ND<10	FALSE
GWC-2	12/20/2018	ND<10	FALSE

Total Chromium

GWC-2	6/13/2019	ND<10	FALSE
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GWC-4	6/13/2014	ND<10	FALSE
GWC-4	12/12/2014	ND<10	FALSE
GWC-4	6/25/2015	ND<10	FALSE
GWC-4	12/10/2015	ND<10	FALSE
GWC-4	6/17/2016	ND<10	FALSE
GWC-4	12/8/2016	ND<10	FALSE
GWC-4	6/21/2018	ND<10	FALSE

Total Cobalt

Non-Parametric Tolerance Interval

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.2652%

Background measurements (n) = 24

Maximum Background Concentration = 40

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/10/2014	ND<40	FALSE
GWA-1A	12/8/2014	ND<40	FALSE
GWA-1A	6/23/2015	ND<40	FALSE
GWA-1A	12/8/2015	ND<40	FALSE
GWA-1A	6/14/2016	ND<40	FALSE
GWA-1A	12/7/2016	ND<40	FALSE
GWA-1A	6/12/2017	ND<40	FALSE
GWA-1A	12/13/2017	ND<40	FALSE
GWA-1A	6/20/2018	ND<40	FALSE
GWA-1A	12/18/2018	ND<40	FALSE
GWA-1A	6/10/2019	ND<40	FALSE
GWA-1A	12/9/2019	ND<40	FALSE

GWA-3	6/10/2014	ND<40	FALSE
GWA-3	12/9/2014	ND<40	FALSE
GWA-3	6/23/2015	ND<40	FALSE
GWA-3	12/8/2015	ND<40	FALSE
GWA-3	6/14/2016	ND<40	FALSE
GWA-3	12/9/2016	ND<40	FALSE
GWA-3	6/15/2017	ND<40	FALSE
GWA-3	12/12/2017	ND<40	FALSE
GWA-3	6/19/2018	ND<40	FALSE
GWA-3	12/18/2018	ND<40	FALSE
GWA-3	6/12/2019	ND<40	FALSE
GWA-3	12/11/2019	ND<40	FALSE

GWC-11	6/10/2014	ND<40	FALSE
GWC-11	12/10/2014	ND<40	FALSE
GWC-11	6/23/2015	ND<40	FALSE
GWC-11	12/8/2015	ND<40	FALSE
GWC-11	6/15/2016	ND<40	FALSE
GWC-11	12/8/2016	ND<40	FALSE
GWC-11	6/15/2017	ND<40	FALSE
GWC-11	12/14/2017	ND<40	FALSE
GWC-11	6/20/2018	ND<40	FALSE
GWC-11	12/20/2018	ND<40	FALSE
GWC-11	6/13/2019	ND<40	FALSE
GWC-11	12/13/2019	ND<40	FALSE

GWC-12	6/10/2014	ND<40	FALSE
GWC-12	12/10/2014	ND<40	FALSE

Total Cobalt

GWC-12	6/23/2015	ND<40	FALSE
GWC-12	12/8/2015	ND<40	FALSE
GWC-12	6/15/2016	ND<40	FALSE
GWC-12	12/8/2016	ND<40	FALSE
GWC-12	6/15/2017	ND<40	FALSE
GWC-12	12/14/2017	ND<40	FALSE
GWC-12	6/20/2018	ND<40	FALSE
GWC-12	12/20/2018	ND<40	FALSE
GWC-12	6/12/2019	ND<40	FALSE
GWC-12	12/10/2019	ND<40	FALSE

GWC-12A	6/10/2014	ND<40	FALSE
GWC-12A	12/10/2014	ND<40	FALSE
GWC-12A	6/23/2015	ND<40	FALSE
GWC-12A	12/8/2015	ND<40	FALSE
GWC-12A	6/15/2016	ND<40	FALSE
GWC-12A	12/8/2016	ND<40	FALSE
GWC-12A	6/15/2017	ND<40	FALSE
GWC-12A	12/14/2017	ND<40	FALSE
GWC-12A	6/20/2018	ND<40	FALSE
GWC-12A	12/20/2018	ND<40	FALSE
GWC-12A	6/12/2019	ND<40	FALSE
GWC-12A	12/10/2019	ND<40	FALSE

GWC-13	6/10/2014	ND<40	FALSE
GWC-13	12/12/2014	ND<40	FALSE
GWC-13	6/23/2015	ND<40	FALSE
GWC-13	12/8/2015	ND<40	FALSE
GWC-13	6/16/2016	ND<40	FALSE
GWC-13	12/8/2016	ND<40	FALSE
GWC-13	6/15/2017	ND<40	FALSE
GWC-13	12/13/2017	ND<40	FALSE
GWC-13	6/20/2018	ND<40	FALSE
GWC-13	12/20/2018	ND<40	FALSE
GWC-13	6/13/2019	ND<40	FALSE
GWC-13	12/12/2019	ND<40	FALSE

GWC-17	6/10/2014	ND<40	FALSE
GWC-17	12/11/2014	ND<40	FALSE
GWC-17	6/23/2015	ND<40	FALSE
GWC-17	12/8/2015	ND<40	FALSE
GWC-17	6/14/2016	ND<40	FALSE
GWC-17	6/15/2017	ND<40	FALSE
GWC-17	12/13/2017	ND<40	FALSE
GWC-17	6/20/2018	ND<40	FALSE
GWC-17	12/20/2018	ND<40	FALSE
GWC-17	6/13/2019	ND<40	FALSE
GWC-17	12/11/2019	ND<40	FALSE

GWC-18	6/10/2014	ND<40	FALSE
GWC-18	12/11/2014	ND<40	FALSE
GWC-18	6/23/2015	ND<40	FALSE
GWC-18	12/10/2015	ND<40	FALSE

Total Cobalt

GWC-18	6/14/2016	ND<40	FALSE
GWC-18	12/7/2016	ND<40	FALSE
GWC-18	6/15/2017	ND<40	FALSE
GWC-18	12/14/2017	ND<40	FALSE
GWC-18	6/20/2018	ND<40	FALSE
GWC-18	12/19/2018	ND<40	FALSE
GWC-18	6/12/2019	ND<40	FALSE
GWC-18	12/10/2019	ND<40	FALSE

GWC-14	6/11/2014	82	TRUE
GWC-14	12/11/2014	48	TRUE
GWC-14	6/24/2015	54	TRUE
GWC-14	12/10/2015	49	TRUE
GWC-14	6/15/2016	88	TRUE
GWC-14	6/21/2018	42	TRUE
GWC-14	6/12/2019	57	TRUE
GWC-14	12/11/2019	50.3	TRUE

GWC-14A	6/11/2014	690	TRUE
GWC-14A	12/10/2014	580	TRUE
GWC-14A	6/24/2015	620	TRUE
GWC-14A	12/10/2015	520	TRUE
GWC-14A	6/16/2016	490	TRUE
GWC-14A	12/8/2016	380	TRUE
GWC-14A	6/13/2017	370	TRUE
GWC-14A	12/13/2017	280	TRUE
GWC-14A	6/21/2018	310	TRUE
GWC-14A	12/19/2018	290	TRUE
GWC-14A	6/12/2019	330	TRUE
GWC-14A	12/11/2019	228	TRUE

GWC-15	6/11/2014	ND<40	FALSE
GWC-15	12/11/2014	ND<40	FALSE
GWC-15	6/24/2015	ND<40	FALSE
GWC-15	12/9/2015	ND<40	FALSE
GWC-15	6/16/2016	ND<40	FALSE
GWC-15	12/8/2016	ND<40	FALSE
GWC-15	6/14/2017	ND<40	FALSE
GWC-15	12/14/2017	ND<40	FALSE
GWC-15	6/20/2018	ND<40	FALSE
GWC-15	12/19/2018	ND<40	FALSE
GWC-15	6/11/2019	ND<40	FALSE
GWC-15	12/10/2019	ND<40	FALSE

GWC-19R	6/11/2014	ND<40	FALSE
GWC-19R	12/11/2014	ND<40	FALSE
GWC-19R	6/23/2015	ND<40	FALSE
GWC-19R	12/10/2015	ND<40	FALSE
GWC-19R	6/16/2016	47	TRUE
GWC-19R	12/7/2016	ND<40	FALSE
GWC-19R	6/15/2017	ND<40	FALSE
GWC-19R	12/14/2017	ND<40	FALSE
GWC-19R	6/20/2018	ND<40	FALSE

Total Cobalt

GWC-19R	12/19/2018	ND<40	FALSE
GWC-19R	6/12/2019	ND<40	FALSE
GWC-19R	12/10/2019	ND<40	FALSE

GWC-22	6/11/2014	60	TRUE
GWC-22	12/9/2014	ND<40	FALSE
GWC-22	6/23/2015	ND<40	FALSE
GWC-22	12/10/2015	ND<40	FALSE
GWC-22	6/16/2016	ND<40	FALSE
GWC-22	12/7/2016	ND<40	FALSE
GWC-22	6/15/2017	ND<40	FALSE
GWC-22	12/12/2017	ND<40	FALSE
GWC-22	6/20/2018	ND<40	FALSE
GWC-22	12/19/2018	ND<40	FALSE
GWC-22	6/13/2019	ND<40	FALSE
GWC-22	12/12/2019	ND<40	FALSE

GWC-23A	6/11/2014	ND<40	FALSE
GWC-23A	12/8/2014	ND<40	FALSE
GWC-23A	6/23/2015	ND<40	FALSE
GWC-23A	12/9/2015	ND<40	FALSE
GWC-23A	6/15/2016	ND<40	FALSE
GWC-23A	12/7/2016	ND<40	FALSE
GWC-23A	6/15/2017	ND<40	FALSE
GWC-23A	12/12/2017	ND<40	FALSE
GWC-23A	6/19/2018	ND<40	FALSE
GWC-23A	12/19/2018	ND<40	FALSE
GWC-23A	6/13/2019	ND<40	FALSE
GWC-23A	12/12/2019	ND<40	FALSE

GWC-4A	6/11/2014	ND<40	FALSE
GWC-4A	12/12/2014	ND<40	FALSE
GWC-4A	6/25/2015	ND<40	FALSE
GWC-4A	12/10/2015	ND<40	FALSE
GWC-4A	6/17/2016	ND<40	FALSE
GWC-4A	12/8/2016	ND<40	FALSE
GWC-4A	6/14/2017	ND<40	FALSE
GWC-4A	12/13/2017	ND<40	FALSE
GWC-4A	6/21/2018	ND<40	FALSE
GWC-4A	12/18/2018	ND<40	FALSE
GWC-4A	6/12/2019	ND<40	FALSE
GWC-4A	12/12/2019	ND<40	FALSE

GWC-5	6/11/2014	ND<40	FALSE
GWC-5	12/9/2014	ND<40	FALSE
GWC-5	6/25/2015	ND<40	FALSE
GWC-5	12/8/2015	ND<40	FALSE
GWC-5	6/15/2016	ND<40	FALSE
GWC-5	12/9/2016	ND<40	FALSE
GWC-5	6/13/2017	ND<40	FALSE
GWC-5	12/13/2017	ND<40	FALSE
GWC-5	6/21/2018	ND<40	FALSE
GWC-5	12/19/2018	ND<40	FALSE

Total Cobalt

GWC-5	6/13/2019	ND<40	FALSE
GWC-5	12/11/2019	ND<40	FALSE
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GWC-6	6/23/2015	ND<40	FALSE
GWC-6	12/9/2015	ND<40	FALSE
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GWC-6	6/13/2017	ND<40	FALSE
GWC-6	12/14/2017	ND<40	FALSE
GWC-6	6/21/2018	ND<40	FALSE
GWC-6	12/20/2018	ND<40	FALSE
GWC-6	6/13/2019	ND<40	FALSE
GWC-6	12/11/2019	ND<40	FALSE
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GWC-7	12/9/2014	ND<40	FALSE
GWC-7	6/25/2015	ND<40	FALSE
GWC-7	12/8/2015	ND<40	FALSE
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GWC-7	12/19/2018	ND<40	FALSE
GWC-7	6/13/2019	ND<40	FALSE
GWC-7	12/12/2019	ND<40	FALSE
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GWC-10	6/23/2015	ND<40	FALSE
GWC-10	12/8/2015	ND<40	FALSE
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GWC-10	12/9/2016	ND<40	FALSE
GWC-10	6/16/2017	ND<40	FALSE
GWC-10	12/13/2017	ND<40	FALSE
GWC-10	6/20/2018	ND<40	FALSE
GWC-10	12/18/2018	ND<40	FALSE
GWC-10	6/11/2019	ND<40	FALSE
GWC-10	12/13/2019	ND<40	FALSE
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GWC-10A	12/10/2014	ND<40	FALSE
GWC-10A	6/23/2015	ND<40	FALSE
GWC-10A	12/8/2015	ND<40	FALSE
GWC-10A	6/15/2016	ND<40	FALSE
GWC-10A	12/9/2016	ND<40	FALSE
GWC-10A	6/16/2017	ND<40	FALSE
GWC-10A	12/13/2017	ND<40	FALSE
GWC-10A	6/20/2018	ND<40	FALSE
GWC-10A	12/18/2018	ND<40	FALSE
GWC-10A	6/11/2019	ND<40	FALSE

Total Cobalt

GWC-10A	12/13/2019	ND<40	FALSE
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GWC-23	6/12/2014	ND<40	FALSE
GWC-23	12/9/2014	ND<40	FALSE
GWC-23	6/23/2015	ND<40	FALSE
GWC-23	12/9/2015	ND<40	FALSE
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GWC-23	12/7/2016	ND<40	FALSE
GWC-23	6/15/2017	ND<40	FALSE
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GWC-23	6/19/2018	ND<40	FALSE
GWC-23	12/19/2018	ND<40	FALSE
GWC-23	6/13/2019	ND<40	FALSE
GWC-23	12/12/2019	ND<40	FALSE
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GWC-24	6/14/2016	ND<40	FALSE
GWC-24	6/15/2017	ND<40	FALSE
GWC-24	6/20/2018	ND<40	FALSE
GWC-24	6/12/2019	ND<40	FALSE
GWC-24	12/10/2019	ND<40	FALSE
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GWC-3	6/25/2015	ND<40	FALSE
GWC-3	12/10/2015	ND<40	FALSE
GWC-3	6/15/2016	ND<40	FALSE
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GWC-3	12/18/2018	ND<40	FALSE
GWC-3	6/12/2019	ND<40	FALSE
GWC-3	12/11/2019	ND<40	FALSE
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GWC-3A	12/12/2014	ND<40	FALSE
GWC-3A	6/25/2015	ND<40	FALSE
GWC-3A	12/10/2015	ND<40	FALSE
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GWC-3A	12/9/2016	ND<40	FALSE
GWC-3A	6/16/2017	ND<40	FALSE
GWC-3A	12/13/2017	ND<40	FALSE
GWC-3A	6/21/2018	ND<40	FALSE
GWC-3A	12/18/2018	ND<40	FALSE
GWC-3A	6/12/2019	ND<40	FALSE
GWC-3A	12/11/2019	ND<40	FALSE
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GWC-8	12/11/2014	ND<40	FALSE
GWC-8	6/24/2015	ND<40	FALSE
GWC-8	12/10/2015	ND<40	FALSE
GWC-8	6/16/2016	ND<40	FALSE
GWC-8	12/9/2016	ND<40	FALSE
GWC-8	12/13/2017	ND<40	FALSE

Total Cobalt

GWC-8	6/21/2018	ND<40	FALSE
GWC-8	6/13/2019	ND<40	FALSE
GWC-8	12/12/2019	ND<40	FALSE

GWC-8A	6/12/2014	ND<40	FALSE
GWC-8A	12/11/2014	ND<40	FALSE
GWC-8A	6/24/2015	ND<40	FALSE
GWC-8A	12/10/2015	ND<40	FALSE
GWC-8A	6/16/2016	ND<40	FALSE
GWC-8A	12/9/2016	44	TRUE
GWC-8A	6/14/2017	ND<40	FALSE
GWC-8A	12/13/2017	ND<40	FALSE
GWC-8A	6/21/2018	ND<40	FALSE
GWC-8A	12/20/2018	ND<40	FALSE
GWC-8A	6/13/2019	ND<40	FALSE
GWC-8A	12/12/2019	ND<40	FALSE

GWC-9	6/12/2014	120	TRUE
GWC-9	12/12/2014	ND<40	FALSE
GWC-9	6/23/2015	ND<40	FALSE
GWC-9	12/9/2015	ND<40	FALSE
GWC-9	6/15/2016	50	TRUE
GWC-9	12/9/2016	ND<40	FALSE
GWC-9	6/16/2017	ND<40	FALSE
GWC-9	12/14/2017	ND<40	FALSE
GWC-9	6/21/2018	ND<40	FALSE
GWC-9	12/19/2018	ND<40	FALSE
GWC-9	6/13/2019	ND<40	FALSE
GWC-9	12/13/2019	ND<40	FALSE

GWC-16A	6/13/2014	43	TRUE
GWC-16A	12/11/2014	ND<40	FALSE
GWC-16A	6/24/2015	ND<40	FALSE
GWC-16A	12/10/2015	100	TRUE
GWC-16A	6/17/2016	ND<40	FALSE
GWC-16A	12/8/2016	ND<40	FALSE
GWC-16A	6/15/2017	81	TRUE
GWC-16A	12/14/2017	ND<40	FALSE
GWC-16A	6/21/2018	ND<40	FALSE
GWC-16A	12/20/2018	ND<40	FALSE
GWC-16A	6/13/2019	ND<40	FALSE
GWC-16A	12/12/2019	ND<40	FALSE

GWC-2	6/13/2014	ND<40	FALSE
GWC-2	12/12/2014	ND<40	FALSE
GWC-2	6/25/2015	ND<40	FALSE
GWC-2	12/10/2015	ND<40	FALSE
GWC-2	6/15/2016	ND<40	FALSE
GWC-2	12/9/2016	ND<40	FALSE
GWC-2	6/16/2017	ND<40	FALSE
GWC-2	12/14/2017	ND<40	FALSE
GWC-2	6/21/2018	ND<40	FALSE
GWC-2	12/20/2018	ND<40	FALSE

Total Cobalt

GWC-2	6/13/2019	ND<40	FALSE
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GWC-4	6/13/2014	ND<40	FALSE
GWC-4	12/12/2014	ND<40	FALSE
GWC-4	6/25/2015	ND<40	FALSE
GWC-4	12/10/2015	ND<40	FALSE
GWC-4	6/17/2016	ND<40	FALSE
GWC-4	12/8/2016	ND<40	FALSE
GWC-4	6/21/2018	ND<40	FALSE

Total Copper

Non-Parametric Tolerance Interval

Parameter: Total Copper

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.3425%

Background measurements (n) = 24

Maximum Background Concentration = 20

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/10/2014	ND<20	FALSE
GWA-1A	12/8/2014	ND<20	FALSE
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
GWA-1A	12/7/2016	ND<20	FALSE
GWA-1A	6/12/2017	ND<20	FALSE
GWA-1A	12/13/2017	32	TRUE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-1A	12/9/2019	ND<20	FALSE

GWA-3	6/10/2014	ND<20	FALSE
GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	ND<20	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	ND<20	FALSE

GWC-11	6/10/2014	ND<20	FALSE
GWC-11	12/10/2014	ND<20	FALSE
GWC-11	6/23/2015	ND<20	FALSE
GWC-11	12/8/2015	ND<20	FALSE
GWC-11	6/15/2016	ND<20	FALSE
GWC-11	12/8/2016	ND<20	FALSE
GWC-11	6/15/2017	ND<20	FALSE
GWC-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	ND<20	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	ND<20	FALSE
GWC-11	12/13/2019	ND<20	FALSE

GWC-12	6/10/2014	ND<20	FALSE
GWC-12	12/10/2014	ND<20	FALSE

Total Copper

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GWC-12	6/15/2016	ND<20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
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GWC-12	6/20/2018	ND<20	FALSE
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GWC-12	6/12/2019	ND<20	FALSE
GWC-12	12/10/2019	ND<20	FALSE

GWC-12A	6/10/2014	ND<20	FALSE
GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
GWC-12A	12/8/2016	ND<20	FALSE
GWC-12A	6/15/2017	ND<20	FALSE
GWC-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	ND<20	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE

GWC-13	6/10/2014	ND<20	FALSE
GWC-13	12/12/2014	ND<20	FALSE
GWC-13	6/23/2015	ND<20	FALSE
GWC-13	12/8/2015	ND<20	FALSE
GWC-13	6/16/2016	ND<20	FALSE
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GWC-13	6/20/2018	ND<20	FALSE
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GWC-13	12/12/2019	ND<20	FALSE

GWC-17	6/10/2014	ND<20	FALSE
GWC-17	12/11/2014	ND<20	FALSE
GWC-17	6/23/2015	ND<20	FALSE
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GWC-17	12/11/2019	ND<20	FALSE

GWC-18	6/10/2014	ND<20	FALSE
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Total Copper

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GWC-18	12/14/2017	ND<20	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	ND<20	FALSE
GWC-18	6/12/2019	ND<20	FALSE
GWC-18	12/10/2019	ND<20	FALSE

GWC-14	6/11/2014	ND<20	FALSE
GWC-14	12/11/2014	ND<20	FALSE
GWC-14	6/24/2015	ND<20	FALSE
GWC-14	12/10/2015	ND<20	FALSE
GWC-14	6/15/2016	ND<20	FALSE
GWC-14	6/21/2018	ND<20	FALSE
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GWC-14	12/11/2019	ND<20	FALSE

GWC-14A	6/11/2014	ND<20	FALSE
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GWC-14A	12/10/2015	ND<20	FALSE
GWC-14A	6/16/2016	ND<20	FALSE
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GWC-14A	12/11/2019	ND<20	FALSE

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GWC-15	12/9/2015	ND<20	FALSE
GWC-15	6/16/2016	ND<20	FALSE
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GWC-15	12/10/2019	ND<20	FALSE

GWC-19R	6/11/2014	ND<20	FALSE
GWC-19R	12/11/2014	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
GWC-19R	12/10/2015	26	TRUE
GWC-19R	6/16/2016	ND<20	FALSE
GWC-19R	12/7/2016	ND<20	FALSE
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Total Copper

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GWC-19R	12/10/2019	ND<20	FALSE

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GWC-22	12/10/2015	ND<20	FALSE
GWC-22	6/16/2016	ND<20	FALSE
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GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	ND<20	FALSE
GWC-22	12/19/2018	ND<20	FALSE
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GWC-22	12/12/2019	ND<20	FALSE

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GWC-23A	6/23/2015	ND<20	FALSE
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GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	ND<20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE

Total Copper

GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
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GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
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GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE
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GWC-7	6/11/2014	ND<20	FALSE
GWC-7	12/9/2014	ND<20	FALSE
GWC-7	6/25/2015	ND<20	FALSE
GWC-7	12/8/2015	ND<20	FALSE
GWC-7	6/16/2016	ND<20	FALSE
GWC-7	12/9/2016	ND<20	FALSE
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GWC-7	12/19/2018	ND<20	FALSE
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GWC-7	12/12/2019	ND<20	FALSE
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GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	ND<20	FALSE
GWC-10	12/8/2015	ND<20	FALSE
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GWC-10	12/18/2018	ND<20	FALSE
GWC-10	6/11/2019	ND<20	FALSE
GWC-10	12/13/2019	ND<20	FALSE
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GWC-10A	12/10/2014	36	TRUE
GWC-10A	6/23/2015	ND<20	FALSE
GWC-10A	12/8/2015	ND<20	FALSE
GWC-10A	6/15/2016	ND<20	FALSE
GWC-10A	12/9/2016	ND<20	FALSE
GWC-10A	6/16/2017	ND<20	FALSE
GWC-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	ND<20	FALSE
GWC-10A	6/11/2019	ND<20	FALSE

Total Copper

GWC-10A	12/13/2019	ND<20	FALSE
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GWC-23	12/9/2014	ND<20	FALSE
GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
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GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
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GWC-24	6/12/2014	ND<20	FALSE
GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	ND<20	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-24	12/10/2019	ND<20	FALSE
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GWC-3	6/12/2014	ND<20	FALSE
GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	ND<20	FALSE
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GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3	12/11/2019	ND<20	FALSE
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GWC-3A	12/12/2014	ND<20	FALSE
GWC-3A	6/25/2015	ND<20	FALSE
GWC-3A	12/10/2015	ND<20	FALSE
GWC-3A	6/15/2016	ND<20	FALSE
GWC-3A	12/9/2016	ND<20	FALSE
GWC-3A	6/16/2017	ND<20	FALSE
GWC-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	ND<20	FALSE
GWC-3A	12/11/2019	ND<20	FALSE
<hr/>			
GWC-8	6/12/2014	ND<20	FALSE
GWC-8	12/11/2014	ND<20	FALSE
GWC-8	6/24/2015	ND<20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	ND<20	FALSE
GWC-8	12/9/2016	ND<20	FALSE
GWC-8	12/13/2017	ND<20	FALSE

Total Copper

GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8	12/12/2019	ND<20	FALSE

GWC-8A	6/12/2014	ND<20	FALSE
GWC-8A	12/11/2014	ND<20	FALSE
GWC-8A	6/24/2015	ND<20	FALSE
GWC-8A	12/10/2015	ND<20	FALSE
GWC-8A	6/16/2016	ND<20	FALSE
GWC-8A	12/9/2016	ND<20	FALSE
GWC-8A	6/14/2017	ND<20	FALSE
GWC-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	ND<20	FALSE
GWC-8A	12/20/2018	ND<20	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-8A	12/12/2019	ND<20	FALSE

GWC-9	6/12/2014	ND<20	FALSE
GWC-9	12/12/2014	ND<20	FALSE
GWC-9	6/23/2015	ND<20	FALSE
GWC-9	12/9/2015	ND<20	FALSE
GWC-9	6/15/2016	ND<20	FALSE
GWC-9	12/9/2016	ND<20	FALSE
GWC-9	6/16/2017	ND<20	FALSE
GWC-9	12/14/2017	ND<20	FALSE
GWC-9	6/21/2018	ND<20	FALSE
GWC-9	12/19/2018	ND<20	FALSE
GWC-9	6/13/2019	ND<20	FALSE
GWC-9	12/13/2019	ND<20	FALSE

GWC-16A	6/13/2014	ND<20	FALSE
GWC-16A	12/11/2014	ND<20	FALSE
GWC-16A	6/24/2015	ND<20	FALSE
GWC-16A	12/10/2015	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
GWC-16A	6/15/2017	ND<20	FALSE
GWC-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	ND<20	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE

GWC-2	6/13/2014	ND<20	FALSE
GWC-2	12/12/2014	ND<20	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE

Total Copper

GWC-2	6/13/2019	ND<20	FALSE
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GWC-4	6/13/2014	ND<20	FALSE
GWC-4	12/12/2014	ND<20	FALSE
GWC-4	6/25/2015	ND<20	FALSE
GWC-4	12/10/2015	ND<20	FALSE
GWC-4	6/17/2016	ND<20	FALSE
GWC-4	12/8/2016	ND<20	FALSE
GWC-4	6/21/2018	ND<20	FALSE

Total Nickel

Non-Parametric Tolerance Interval

Parameter: Total Nickel

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.3039%

Background measurements (n) = 24

Maximum Background Concentration = 20

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/10/2014	ND<20	FALSE
GWA-1A	12/8/2014	ND<20	FALSE
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
GWA-1A	12/7/2016	ND<20	FALSE
GWA-1A	6/12/2017	ND<20	FALSE
GWA-1A	12/13/2017	ND<20	FALSE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-1A	12/9/2019	ND<20	FALSE

GWA-3	6/10/2014	ND<20	FALSE
GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	ND<20	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	ND<20	FALSE

GWC-11	6/10/2014	ND<20	FALSE
GWC-11	12/10/2014	ND<20	FALSE
GWC-11	6/23/2015	ND<20	FALSE
GWC-11	12/8/2015	ND<20	FALSE
GWC-11	6/15/2016	ND<20	FALSE
GWC-11	12/8/2016	ND<20	FALSE
GWC-11	6/15/2017	ND<20	FALSE
GWC-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	ND<20	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	ND<20	FALSE
GWC-11	12/13/2019	ND<20	FALSE

GWC-12	6/10/2014	ND<20	FALSE
GWC-12	12/10/2014	ND<20	FALSE

Total Nickel

GWC-12	6/23/2015	ND<20	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	ND<20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	ND<20	FALSE
GWC-12	6/12/2019	ND<20	FALSE
GWC-12	12/10/2019	ND<20	FALSE

GWC-12A	6/10/2014	ND<20	FALSE
GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
GWC-12A	12/8/2016	ND<20	FALSE
GWC-12A	6/15/2017	ND<20	FALSE
GWC-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	ND<20	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE

GWC-13	6/10/2014	ND<20	FALSE
GWC-13	12/12/2014	ND<20	FALSE
GWC-13	6/23/2015	ND<20	FALSE
GWC-13	12/8/2015	ND<20	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-13	12/12/2019	ND<20	FALSE

GWC-17	6/10/2014	ND<20	FALSE
GWC-17	12/11/2014	ND<20	FALSE
GWC-17	6/23/2015	ND<20	FALSE
GWC-17	12/8/2015	ND<20	FALSE
GWC-17	6/14/2016	ND<20	FALSE
GWC-17	6/15/2017	ND<20	FALSE
GWC-17	12/13/2017	ND<20	FALSE
GWC-17	6/20/2018	ND<20	FALSE
GWC-17	12/20/2018	ND<20	FALSE
GWC-17	6/13/2019	ND<20	FALSE
GWC-17	12/11/2019	ND<20	FALSE

GWC-18	6/10/2014	ND<20	FALSE
GWC-18	12/11/2014	ND<20	FALSE
GWC-18	6/23/2015	47	TRUE
GWC-18	12/10/2015	ND<20	FALSE

Total Nickel

GWC-18	6/14/2016	ND<20	FALSE
GWC-18	12/7/2016	64	TRUE
GWC-18	6/15/2017	34	TRUE
GWC-18	12/14/2017	ND<20	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	ND<20	FALSE
GWC-18	6/12/2019	24	TRUE
GWC-18	12/10/2019	29.8	TRUE

GWC-14	6/11/2014	ND<20	FALSE
GWC-14	12/11/2014	ND<20	FALSE
GWC-14	6/24/2015	ND<20	FALSE
GWC-14	12/10/2015	ND<20	FALSE
GWC-14	6/15/2016	ND<20	FALSE
GWC-14	6/21/2018	ND<20	FALSE
GWC-14	6/12/2019	ND<20	FALSE
GWC-14	12/11/2019	ND<20	FALSE

GWC-14A	6/11/2014	35	TRUE
GWC-14A	12/10/2014	38	TRUE
GWC-14A	6/24/2015	36	TRUE
GWC-14A	12/10/2015	28	TRUE
GWC-14A	6/16/2016	28	TRUE
GWC-14A	12/8/2016	27	TRUE
GWC-14A	6/13/2017	24	TRUE
GWC-14A	12/13/2017	21	TRUE
GWC-14A	6/21/2018	24	TRUE
GWC-14A	12/19/2018	20	FALSE
GWC-14A	6/12/2019	21	TRUE
GWC-14A	12/11/2019	ND<20	FALSE

GWC-15	6/11/2014	ND<20	FALSE
GWC-15	12/11/2014	ND<20	FALSE
GWC-15	6/24/2015	ND<20	FALSE
GWC-15	12/9/2015	ND<20	FALSE
GWC-15	6/16/2016	ND<20	FALSE
GWC-15	12/8/2016	ND<20	FALSE
GWC-15	6/14/2017	ND<20	FALSE
GWC-15	12/14/2017	ND<20	FALSE
GWC-15	6/20/2018	ND<20	FALSE
GWC-15	12/19/2018	ND<20	FALSE
GWC-15	6/11/2019	ND<20	FALSE
GWC-15	12/10/2019	ND<20	FALSE

GWC-19R	6/11/2014	ND<20	FALSE
GWC-19R	12/11/2014	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
GWC-19R	12/10/2015	ND<20	FALSE
GWC-19R	6/16/2016	ND<20	FALSE
GWC-19R	12/7/2016	ND<20	FALSE
GWC-19R	6/15/2017	ND<20	FALSE
GWC-19R	12/14/2017	ND<20	FALSE
GWC-19R	6/20/2018	ND<20	FALSE

Total Nickel

GWC-19R	12/19/2018	ND<20	FALSE
GWC-19R	6/12/2019	ND<20	FALSE
GWC-19R	12/10/2019	ND<20	FALSE

GWC-22	6/11/2014	ND<20	FALSE
GWC-22	12/9/2014	ND<20	FALSE
GWC-22	6/23/2015	ND<20	FALSE
GWC-22	12/10/2015	ND<20	FALSE
GWC-22	6/16/2016	ND<20	FALSE
GWC-22	12/7/2016	ND<20	FALSE
GWC-22	6/15/2017	ND<20	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	ND<20	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-22	12/12/2019	ND<20	FALSE

GWC-23A	6/11/2014	ND<20	FALSE
GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	ND<20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
GWC-23A	6/15/2017	ND<20	FALSE
GWC-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE
GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	ND<20	FALSE

GWC-4A	6/11/2014	ND<20	FALSE
GWC-4A	12/12/2014	ND<20	FALSE
GWC-4A	6/25/2015	ND<20	FALSE
GWC-4A	12/10/2015	ND<20	FALSE
GWC-4A	6/17/2016	ND<20	FALSE
GWC-4A	12/8/2016	ND<20	FALSE
GWC-4A	6/14/2017	ND<20	FALSE
GWC-4A	12/13/2017	ND<20	FALSE
GWC-4A	6/21/2018	ND<20	FALSE
GWC-4A	12/18/2018	ND<20	FALSE
GWC-4A	6/12/2019	22	TRUE
GWC-4A	12/12/2019	ND<20	FALSE

GWC-5	6/11/2014	ND<20	FALSE
GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	ND<20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE

Total Nickel

GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
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GWC-6	6/11/2014	ND<20	FALSE
GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	ND<20	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE
<hr/>			
GWC-7	6/11/2014	ND<20	FALSE
GWC-7	12/9/2014	ND<20	FALSE
GWC-7	6/25/2015	ND<20	FALSE
GWC-7	12/8/2015	ND<20	FALSE
GWC-7	6/16/2016	ND<20	FALSE
GWC-7	12/9/2016	ND<20	FALSE
GWC-7	6/13/2017	ND<20	FALSE
GWC-7	12/13/2017	ND<20	FALSE
GWC-7	6/20/2018	ND<20	FALSE
GWC-7	12/19/2018	ND<20	FALSE
GWC-7	6/13/2019	ND<20	FALSE
GWC-7	12/12/2019	ND<20	FALSE
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GWC-10	6/12/2014	ND<20	FALSE
GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	ND<20	FALSE
GWC-10	12/8/2015	ND<20	FALSE
GWC-10	6/15/2016	ND<20	FALSE
GWC-10	12/9/2016	ND<20	FALSE
GWC-10	6/16/2017	ND<20	FALSE
GWC-10	12/13/2017	ND<20	FALSE
GWC-10	6/20/2018	ND<20	FALSE
GWC-10	12/18/2018	ND<20	FALSE
GWC-10	6/11/2019	ND<20	FALSE
GWC-10	12/13/2019	ND<20	FALSE
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GWC-10A	6/12/2014	ND<20	FALSE
GWC-10A	12/10/2014	ND<20	FALSE
GWC-10A	6/23/2015	ND<20	FALSE
GWC-10A	12/8/2015	ND<20	FALSE
GWC-10A	6/15/2016	ND<20	FALSE
GWC-10A	12/9/2016	ND<20	FALSE
GWC-10A	6/16/2017	ND<20	FALSE
GWC-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	ND<20	FALSE
GWC-10A	6/11/2019	ND<20	FALSE

Total Nickel

GWC-10A	12/13/2019	ND<20	FALSE
<hr/>			
GWC-23	6/12/2014	ND<20	FALSE
GWC-23	12/9/2014	ND<20	FALSE
GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
<hr/>			
GWC-24	6/12/2014	ND<20	FALSE
GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	ND<20	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-24	12/10/2019	ND<20	FALSE
<hr/>			
GWC-3	6/12/2014	ND<20	FALSE
GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	ND<20	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3	12/11/2019	ND<20	FALSE
<hr/>			
GWC-3A	6/12/2014	ND<20	FALSE
GWC-3A	12/12/2014	ND<20	FALSE
GWC-3A	6/25/2015	ND<20	FALSE
GWC-3A	12/10/2015	ND<20	FALSE
GWC-3A	6/15/2016	ND<20	FALSE
GWC-3A	12/9/2016	ND<20	FALSE
GWC-3A	6/16/2017	ND<20	FALSE
GWC-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	ND<20	FALSE
GWC-3A	12/11/2019	ND<20	FALSE
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GWC-8	6/12/2014	ND<20	FALSE
GWC-8	12/11/2014	ND<20	FALSE
GWC-8	6/24/2015	ND<20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	ND<20	FALSE
GWC-8	12/9/2016	ND<20	FALSE
GWC-8	12/13/2017	ND<20	FALSE

Total Nickel

GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8	12/12/2019	ND<20	FALSE

GWC-8A	6/12/2014	ND<20	FALSE
GWC-8A	12/11/2014	ND<20	FALSE
GWC-8A	6/24/2015	ND<20	FALSE
GWC-8A	12/10/2015	ND<20	FALSE
GWC-8A	6/16/2016	ND<20	FALSE
GWC-8A	12/9/2016	ND<20	FALSE
GWC-8A	6/14/2017	ND<20	FALSE
GWC-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	ND<20	FALSE
GWC-8A	12/20/2018	ND<20	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-8A	12/12/2019	ND<20	FALSE

GWC-9	6/12/2014	ND<20	FALSE
GWC-9	12/12/2014	ND<20	FALSE
GWC-9	6/23/2015	ND<20	FALSE
GWC-9	12/9/2015	ND<20	FALSE
GWC-9	6/15/2016	ND<20	FALSE
GWC-9	12/9/2016	ND<20	FALSE
GWC-9	6/16/2017	ND<20	FALSE
GWC-9	12/14/2017	ND<20	FALSE
GWC-9	6/21/2018	ND<20	FALSE
GWC-9	12/19/2018	ND<20	FALSE
GWC-9	6/13/2019	ND<20	FALSE
GWC-9	12/13/2019	ND<20	FALSE

GWC-16A	6/13/2014	ND<20	FALSE
GWC-16A	12/11/2014	ND<20	FALSE
GWC-16A	6/24/2015	ND<20	FALSE
GWC-16A	12/10/2015	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
GWC-16A	6/15/2017	ND<20	FALSE
GWC-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	ND<20	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE

GWC-2	6/13/2014	ND<20	FALSE
GWC-2	12/12/2014	ND<20	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE

Total Nickel

GWC-2	6/13/2019	ND<20	FALSE
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GWC-4	6/13/2014	ND<20	FALSE
GWC-4	12/12/2014	ND<20	FALSE
GWC-4	6/25/2015	ND<20	FALSE
GWC-4	12/10/2015	ND<20	FALSE
GWC-4	6/17/2016	ND<20	FALSE
GWC-4	12/8/2016	ND<20	FALSE
GWC-4	6/21/2018	ND<20	FALSE

Total Zinc

Non-Parametric Tolerance Interval

Parameter: Total Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 69.337%

Background measurements (n) = 24

Maximum Background Concentration = 48

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/10/2014	ND<20	FALSE
GWA-1A	12/8/2014	ND<20	FALSE
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
GWA-1A	12/7/2016	ND<20	FALSE
GWA-1A	6/12/2017	ND<20	FALSE
GWA-1A	12/13/2017	24	FALSE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-1A	12/9/2019	ND<20	FALSE

GWA-3	6/10/2014	ND<20	FALSE
GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	43	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	41	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	71.5	TRUE

GWC-11	6/10/2014	ND<20	FALSE
GWC-11	12/10/2014	21	FALSE
GWC-11	6/23/2015	29	FALSE
GWC-11	12/8/2015	ND<20	FALSE
GWC-11	6/15/2016	ND<20	FALSE
GWC-11	12/8/2016	ND<20	FALSE
GWC-11	6/15/2017	ND<20	FALSE
GWC-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	26	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	34	FALSE
GWC-11	12/13/2019	23.3	FALSE

GWC-12	6/10/2014	ND<20	FALSE
GWC-12	12/10/2014	20	FALSE

Total Zinc

GWC-12	6/23/2015	ND<20	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	ND<20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	ND<20	FALSE
GWC-12	6/12/2019	ND<20	FALSE
GWC-12	12/10/2019	ND<20	FALSE

GWC-12A	6/10/2014	ND<20	FALSE
GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
GWC-12A	12/8/2016	20	FALSE
GWC-12A	6/15/2017	ND<20	FALSE
GWC-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	26	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE

GWC-13	6/10/2014	ND<20	FALSE
GWC-13	12/12/2014	ND<20	FALSE
GWC-13	6/23/2015	45	FALSE
GWC-13	12/8/2015	ND<20	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-13	12/12/2019	23.6	FALSE

GWC-17	6/10/2014	ND<20	FALSE
GWC-17	12/11/2014	ND<20	FALSE
GWC-17	6/23/2015	ND<20	FALSE
GWC-17	12/8/2015	ND<20	FALSE
GWC-17	6/14/2016	ND<20	FALSE
GWC-17	6/15/2017	20	FALSE
GWC-17	12/13/2017	ND<20	FALSE
GWC-17	6/20/2018	ND<20	FALSE
GWC-17	12/20/2018	27	FALSE
GWC-17	6/13/2019	24	FALSE
GWC-17	12/11/2019	ND<20	FALSE

GWC-18	6/10/2014	ND<20	FALSE
GWC-18	12/11/2014	ND<20	FALSE
GWC-18	6/23/2015	ND<20	FALSE
GWC-18	12/10/2015	ND<20	FALSE

Total Zinc

GWC-18	6/14/2016	ND<20	FALSE
GWC-18	12/7/2016	49	TRUE
GWC-18	6/15/2017	21	FALSE
GWC-18	12/14/2017	29	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	26	FALSE
GWC-18	6/12/2019	ND<20	FALSE
GWC-18	12/10/2019	38.7	FALSE

GWC-14	6/11/2014	21	FALSE
GWC-14	12/11/2014	36	FALSE
GWC-14	6/24/2015	23	FALSE
GWC-14	12/10/2015	68	TRUE
GWC-14	6/15/2016	20	FALSE
GWC-14	6/21/2018	67	TRUE
GWC-14	6/12/2019	ND<20	FALSE
GWC-14	12/11/2019	27.7	FALSE

GWC-14A	6/11/2014	ND<20	FALSE
GWC-14A	12/10/2014	ND<20	FALSE
GWC-14A	6/24/2015	ND<20	FALSE
GWC-14A	12/10/2015	20	FALSE
GWC-14A	6/16/2016	ND<20	FALSE
GWC-14A	12/8/2016	ND<20	FALSE
GWC-14A	6/13/2017	ND<20	FALSE
GWC-14A	12/13/2017	ND<20	FALSE
GWC-14A	6/21/2018	20	FALSE
GWC-14A	12/19/2018	ND<20	FALSE
GWC-14A	6/12/2019	ND<20	FALSE
GWC-14A	12/11/2019	ND<20	FALSE

GWC-15	6/11/2014	ND<20	FALSE
GWC-15	12/11/2014	270	TRUE
GWC-15	6/24/2015	50	TRUE
GWC-15	12/9/2015	39	FALSE
GWC-15	6/16/2016	55	TRUE
GWC-15	12/8/2016	ND<20	FALSE
GWC-15	6/14/2017	90	TRUE
GWC-15	12/14/2017	60	TRUE
GWC-15	6/20/2018	56	TRUE
GWC-15	12/19/2018	ND<20	FALSE
GWC-15	6/11/2019	ND<20	FALSE
GWC-15	12/10/2019	ND<20	FALSE

GWC-19R	6/11/2014	ND<20	FALSE
GWC-19R	12/11/2014	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
GWC-19R	12/10/2015	ND<20	FALSE
GWC-19R	6/16/2016	ND<20	FALSE
GWC-19R	12/7/2016	ND<20	FALSE
GWC-19R	6/15/2017	ND<20	FALSE
GWC-19R	12/14/2017	ND<20	FALSE
GWC-19R	6/20/2018	21	FALSE

Total Zinc

GWC-19R	12/19/2018	ND<20	FALSE
GWC-19R	6/12/2019	ND<20	FALSE
GWC-19R	12/10/2019	ND<20	FALSE

GWC-22	6/11/2014	170	TRUE
GWC-22	12/9/2014	ND<20	FALSE
GWC-22	6/23/2015	ND<20	FALSE
GWC-22	12/10/2015	26	FALSE
GWC-22	6/16/2016	ND<20	FALSE
GWC-22	12/7/2016	ND<20	FALSE
GWC-22	6/15/2017	ND<20	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	21	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-22	12/12/2019	ND<20	FALSE

GWC-23A	6/11/2014	ND<20	FALSE
GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	ND<20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
GWC-23A	6/15/2017	ND<20	FALSE
GWC-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE
GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	31.6	FALSE

GWC-4A	6/11/2014	ND<20	FALSE
GWC-4A	12/12/2014	ND<20	FALSE
GWC-4A	6/25/2015	ND<20	FALSE
GWC-4A	12/10/2015	ND<20	FALSE
GWC-4A	6/17/2016	ND<20	FALSE
GWC-4A	12/8/2016	ND<20	FALSE
GWC-4A	6/14/2017	ND<20	FALSE
GWC-4A	12/13/2017	25	FALSE
GWC-4A	6/21/2018	ND<20	FALSE
GWC-4A	12/18/2018	ND<20	FALSE
GWC-4A	6/12/2019	23	FALSE
GWC-4A	12/12/2019	50	TRUE

GWC-5	6/11/2014	ND<20	FALSE
GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	26	FALSE

Total Zinc

GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	38.3	FALSE
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GWC-6	6/11/2014	ND<20	FALSE
GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	ND<20	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE
<hr/>			
GWC-7	6/11/2014	24	FALSE
GWC-7	12/9/2014	27	FALSE
GWC-7	6/25/2015	ND<20	FALSE
GWC-7	12/8/2015	27	FALSE
GWC-7	6/16/2016	36	FALSE
GWC-7	12/9/2016	ND<20	FALSE
GWC-7	6/13/2017	20	FALSE
GWC-7	12/13/2017	ND<20	FALSE
GWC-7	6/20/2018	30	FALSE
GWC-7	12/19/2018	110	TRUE
GWC-7	6/13/2019	23	FALSE
GWC-7	12/12/2019	42.2	FALSE
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GWC-10	6/12/2014	ND<20	FALSE
GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	ND<20	FALSE
GWC-10	12/8/2015	26	FALSE
GWC-10	6/15/2016	ND<20	FALSE
GWC-10	12/9/2016	23	FALSE
GWC-10	6/16/2017	ND<20	FALSE
GWC-10	12/13/2017	28	FALSE
GWC-10	6/20/2018	41	FALSE
GWC-10	12/18/2018	22	FALSE
GWC-10	6/11/2019	24	FALSE
GWC-10	12/13/2019	86.4	TRUE
<hr/>			
GWC-10A	6/12/2014	ND<20	FALSE
GWC-10A	12/10/2014	20	FALSE
GWC-10A	6/23/2015	ND<20	FALSE
GWC-10A	12/8/2015	ND<20	FALSE
GWC-10A	6/15/2016	ND<20	FALSE
GWC-10A	12/9/2016	ND<20	FALSE
GWC-10A	6/16/2017	ND<20	FALSE
GWC-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	38	FALSE
GWC-10A	6/11/2019	ND<20	FALSE

Total Zinc

GWC-10A	12/13/2019	31.2	FALSE
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GWC-23	6/12/2014	ND<20	FALSE
GWC-23	12/9/2014	ND<20	FALSE
GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
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GWC-24	6/12/2014	ND<20	FALSE
GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	ND<20	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-24	12/10/2019	24	FALSE
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GWC-3	6/12/2014	ND<20	FALSE
GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	25	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3	12/11/2019	ND<20	FALSE
<hr/>			
GWC-3A	6/12/2014	ND<20	FALSE
GWC-3A	12/12/2014	20	FALSE
GWC-3A	6/25/2015	ND<20	FALSE
GWC-3A	12/10/2015	ND<20	FALSE
GWC-3A	6/15/2016	ND<20	FALSE
GWC-3A	12/9/2016	ND<20	FALSE
GWC-3A	6/16/2017	34	FALSE
GWC-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	24	FALSE
GWC-3A	12/11/2019	28.8	FALSE
<hr/>			
GWC-8	6/12/2014	ND<20	FALSE
GWC-8	12/11/2014	ND<20	FALSE
GWC-8	6/24/2015	ND<20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	ND<20	FALSE
GWC-8	12/9/2016	26	FALSE
GWC-8	12/13/2017	ND<20	FALSE

Total Zinc

GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8	12/12/2019	ND<20	FALSE

GWC-8A	6/12/2014	ND<20	FALSE
GWC-8A	12/11/2014	ND<20	FALSE
GWC-8A	6/24/2015	ND<20	FALSE
GWC-8A	12/10/2015	ND<20	FALSE
GWC-8A	6/16/2016	ND<20	FALSE
GWC-8A	12/9/2016	ND<20	FALSE
GWC-8A	6/14/2017	ND<20	FALSE
GWC-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	34	FALSE
GWC-8A	12/20/2018	42	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-8A	12/12/2019	ND<20	FALSE

GWC-9	6/12/2014	47	FALSE
GWC-9	12/12/2014	86	TRUE
GWC-9	6/23/2015	67	TRUE
GWC-9	12/9/2015	38	FALSE
GWC-9	6/15/2016	54	TRUE
GWC-9	12/9/2016	140	TRUE
GWC-9	6/16/2017	73	TRUE
GWC-9	12/14/2017	46	FALSE
GWC-9	6/21/2018	45	FALSE
GWC-9	12/19/2018	38	FALSE
GWC-9	6/13/2019	60	TRUE
GWC-9	12/13/2019	78	TRUE

GWC-16A	6/13/2014	ND<20	FALSE
GWC-16A	12/11/2014	ND<20	FALSE
GWC-16A	6/24/2015	ND<20	FALSE
GWC-16A	12/10/2015	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
GWC-16A	6/15/2017	79	TRUE
GWC-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	44	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE

GWC-2	6/13/2014	ND<20	FALSE
GWC-2	12/12/2014	25	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	23	FALSE

Total Zinc

GWC-2	6/13/2019	28	FALSE
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GWC-4	6/13/2014	ND<20	FALSE
GWC-4	12/12/2014	ND<20	FALSE
GWC-4	6/25/2015	ND<20	FALSE
GWC-4	12/10/2015	62	TRUE
GWC-4	6/17/2016	ND<20	FALSE
GWC-4	12/8/2016	ND<20	FALSE
GWC-4	6/21/2018	25	FALSE

Trichloroethene

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 87.6263%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
<hr/>			
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
<hr/>			
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
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GWC-12A	6/9/2014	ND<2	FALSE
GWC-12A	12/9/2014	ND<2	FALSE

Trichloroethene

GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE

GWC-13	6/9/2014	ND<2	FALSE
GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE

GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE

GWC-18	6/9/2014	3.6	TRUE
GWC-18	12/10/2014	4.5	TRUE
GWC-18	6/22/2015	3.5	TRUE
GWC-18	12/9/2015	2.7	TRUE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	2.3	TRUE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	2.3	TRUE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	2.1	TRUE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	2.6	TRUE

GWA-1A	6/10/2014	ND<2	FALSE
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE

Trichloroethene

GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE

GWC-15	6/10/2014	ND<2	FALSE
GWC-15	12/10/2014	4.9	TRUE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	2.4	TRUE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	73	TRUE
GWC-15	6/14/2017	2.1	TRUE
GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	3.7	TRUE
GWC-15	6/11/2019	70	TRUE
GWC-15	12/10/2019	55	TRUE

GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	2.1	TRUE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE

GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE

Trichloroethene

GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE

GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE

GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE

GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE

Trichloroethene

GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE

GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE

GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE

GWC-14A	6/11/2014	7	TRUE
GWC-14A	12/10/2014	8	TRUE
GWC-14A	6/23/2015	5	TRUE
GWC-14A	12/9/2015	5.3	TRUE
GWC-14A	6/15/2016	4.3	TRUE
GWC-14A	12/8/2016	6.8	TRUE
GWC-14A	6/13/2017	3.5	TRUE
GWC-14A	12/12/2017	3.8	TRUE
GWC-14A	6/20/2018	2.1	TRUE
GWC-14A	12/19/2018	2.2	TRUE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	3.1	TRUE

GWC-14R	6/11/2014	11	TRUE
GWC-14R	12/10/2014	8.6	TRUE
GWC-14R	6/23/2015	8.2	TRUE
GWC-14R	12/10/2015	6.7	TRUE
GWC-14R	6/15/2016	6.1	TRUE
GWC-14R	12/8/2016	5.4	TRUE
GWC-14R	6/13/2017	6.8	TRUE
GWC-14R	12/12/2017	4.8	TRUE
GWC-14R	6/20/2018	5.2	TRUE
GWC-14R	12/19/2018	4.9	TRUE

Trichloroethene

GWC-14R	6/12/2019	4.7	TRUE
GWC-14R	12/10/2019	4.3	TRUE

GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE

GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE

GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE

Trichloroethene

GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE

GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	12/10/2014	2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

GWC-8R	6/11/2014	3.7	TRUE
GWC-8R	12/10/2014	3.8	TRUE
GWC-8R	6/23/2015	2.2	TRUE
GWC-8R	12/10/2015	2.9	TRUE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	2.9	TRUE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	5.3	TRUE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE

GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	6.4	TRUE
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Trichloroethene

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	12/9/2015	7	TRUE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	3.9	TRUE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE

GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE

GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE

GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE

Vinyl chloride

Non-Parametric Tolerance Interval

Parameter: Vinyl chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.9596%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
<hr/>			
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
<hr/>			
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
<hr/>			
GWC-12A	6/9/2014	ND<2	FALSE
GWC-12A	12/9/2014	ND<2	FALSE

Vinyl chloride

GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE

GWC-13	6/9/2014	ND<2	FALSE
GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE

GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE

GWC-18	6/9/2014	ND<2	FALSE
GWC-18	12/10/2014	ND<2	FALSE
GWC-18	6/22/2015	ND<2	FALSE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE

GWA-1A	6/10/2014	ND<2	FALSE
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE

Vinyl chloride

GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE

GWC-15	6/10/2014	ND<2	FALSE
GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	2.3	TRUE
GWC-15	6/14/2017	ND<2	FALSE
GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE

GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE

GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE

GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE

Vinyl chloride

GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE

GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE

GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE

GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE

GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE

Vinyl chloride

GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE

GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE

GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE

GWC-14A	6/11/2014	5.9	TRUE
GWC-14A	12/10/2014	5.4	TRUE
GWC-14A	6/23/2015	6.3	TRUE
GWC-14A	12/9/2015	6.1	TRUE
GWC-14A	6/15/2016	8.4	TRUE
GWC-14A	12/8/2016	5.7	TRUE
GWC-14A	6/13/2017	3.5	TRUE
GWC-14A	12/12/2017	6	TRUE
GWC-14A	6/20/2018	6.2	TRUE
GWC-14A	12/19/2018	4.9	TRUE
GWC-14A	6/11/2019	4.3	TRUE
GWC-14A	12/10/2019	4	TRUE

GWC-14R	6/11/2014	ND<2	FALSE
GWC-14R	12/10/2014	ND<2	FALSE
GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
GWC-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE

Vinyl chloride

GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE

GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE

GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE

GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE

Vinyl chloride

GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE

GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

GWC-8R	6/11/2014	ND<2	FALSE
GWC-8R	12/10/2014	ND<2	FALSE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
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GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE

GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
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GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE

GWC-16A 6/12/2014 4.8 TRUE

Vinyl chloride

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	12/9/2015	6	TRUE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	4.8	TRUE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE

GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
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GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
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GWC-2	12/10/2019	ND<2	FALSE

GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
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GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE

GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE



ATLANTIC COAST
CONSULTING, INC.