Forsyth County Recycling & Solid Waste Department

SAMUEL B. BUCKLES, Environmental Scientist Manager

February 11, 2021

Mr. John Sayer
Environmental Monitoring Unit Manager
Georgia Department of Natural Resources
Environmental Protection Division
Solid Waste Management Program
4244 International Parkway, Suite 104
Atlanta, Georgia 30354-3906

RE: Second 2020 Semi-Annual Groundwater & Surface Water Monitoring Report
Forsyth County – Hightower Landfill
Permit Nos. 058-006D(SL), 058-009(SL) and
Permit No. 058-010D(SL)
Forsyth County

Dear Mr. Sayer:

In accordance with the Georgia EPD Rules and Regulations for Solid Waste Management, Chapter 391-3-4, Forsyth County is submitting the attached Semi-Annual Groundwater & Surface Water Monitoring Report, prepared by Atlantic Coast Consulting, Inc., (ACC).

You can reach me at (470) 208-8582 (cell) or by email at sbbuckles@forsythco.com if you would like to touch base or discuss, or Charles Adams with ACC at (770) 712-9785 (cell) or charles.adams@atlcc.net.

Sincerely,

Forsyth County – Hightower Road Landfill

Ballground, Georgia 30107

PERMIT #s: 058-006D(L), 058-009D(SL), 058-010D(SL)

Forsyth County

SECOND 2020 SEMI-ANNUAL GROUNDWATER & SURFACE WATER MONITORING REPORT

ATLANTIC COAST CONSULTING, INC.

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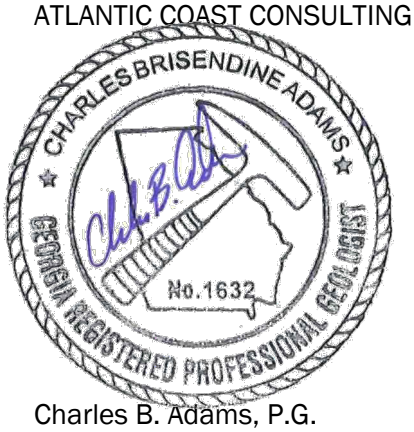
Introduction

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 2020 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 complies with appropriate Rules of Georgia Solid Waste Management, because an Assessment of Corrective Measures (ACM) Study have been completed and Corrective Action Plan (CAP) is being implemented.

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 permit 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, if 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 13 locations around the facility. 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. Five surface water locations (SWC-1, SWC-4, SWC-4A, SWC-4B, and SWC-6) are also sampled for Appendix I VOCs. (See Table A for a summary of sampling requirements).

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. Appendix I VOCs are collected from SWC-1, SWC-4, SWC-4A, SWC-4B, 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 or redox), 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 on a triennial basis. The first MNA/CAP review was completed during the second 2010 event, and subsequent reviews were completed during the second 2013, second 2016, and second 2019 events. The reviews were submitted to EPD as attachments to the respective groundwater monitoring reports.

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. Alternative GWPS were established in the ACM for analytes that have no established MCL, per rule 391-3-4-.14(32).

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.
- 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, PH1-GWC-2, GWA-1A, GWC-4A, GWC-8R, AMW-1, and AMW-2, where a Grundfos stainless steel submersible pump attached to disposable Teflon lined tubing was used.
- Parameters including pH, temperature, turbidity, and specific conductance 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.
- Trip blanks were provided for 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 conductance, 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 Table 3 (Organics) and Table 4 (Metals).

Laboratory Methods

Laboratory analyses were performed in accordance with approved U.S. EPA methodology as set forth in *Test Methods for Evaluating Solid Waste, 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 2020 semi-annual monitoring event were collected December 15-22, 2020. The samples were analyzed by AES of Atlanta, Georgia. Samples were collected and analyzed from network detection and assessment monitoring wells for Appendix I parameters during this monitoring event as detailed in Table A. Monitoring wells GWC-15 and GWC-16A were dry or purged dry and did not recharge and were not sampled. Groundwater monitoring wells AMW-1 and AMW-2 were sampled as surrogate wells for GWC-15 and GWC-16A, respectively.

An evaluation of the December 2020 semi-annual groundwater sampling results indicates that one or more VOCs were detected in 13 network groundwater well samples and 7 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.
- During the previous event, there was an unverified detection of chlorobenzene (12 micrograms per Liter - µg/L) in the sample from GWC-14A, below the GWPS (110 µg/L). A detection of chlorobenzene occurred again during this event (16 µg/L), and the detection is now considered verified. The concentration of vinyl chloride in the sample from GWC-14A was above the GWPS (2 µg/L). Neither chlorobenzene nor vinyl chloride were detected in GWC-13 that is located downgradient of GWC-14A.
- The concentration of cis-1,2-DCE in the sample from AMW-1 was above the GWPS (70 µg/L). The concentration of cis-1,2-DCE in the sample from AMW-12R that is downgradient of AMW-1 was below the GWPS.
- The concentrations of PCE in samples from PH1-GWC-2, PH1-GWC-3, GWC-18, AMW-1, and AMW-12R were above the GWPS (5 µg/L). An unverified concentration of PCE in the sample from PH1-GWC-3A that was above the GWPS occurred during this event. This will be reevaluated during the next event.
- The concentrations of TCE in samples from PH1-GWC-3, PH1-GWC-3A, and AMW-1 were above the GWPS (5 µg/L). TCE was not detected in the SWC-6 sample that is

located downgradient of PH1-GWC-3. Also, TCE was below the GWPS in the sample from AMW-12R located downgradient of AMW-1.

- The detections of VOCs in groundwater are addressed by remedies in the CAP.

A summary of detected metals is presented in Table 4. Appendix I metals barium, cobalt, nickel, and zinc were detected in one or more groundwater well samples. All detected groundwater metals concentrations were less than their respective GWPS. Low levels of barium were detected in most groundwater samples, and cobalt, 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). Annual MNA laboratory analysis includes the following: nitrate, sulfate, chloride, total dissolved solids (TDS), and total alkalinity, and field test for dissolved oxygen, ferrous iron, ORP, and carbon dioxide. A summary of MNA parameter data is provided in Table 4a. 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, second 2016, and second 2019 groundwater monitoring reports. The next Corrective Measures Status Evaluation Report will be provided in conjunction with the second 2022 report.

Forsyth County is currently conducting a pilot test to evaluate the effectiveness of encapsulated potassium permanganate ($KMnO_4$) in reducing VOCs in groundwater near AMW-12/12R. Work is being conducted under the EPD approved Underground Injection Control (UIC) Permit No. GAW000753. This pilot test/UIC permit is the result of a multi-year process to evaluate enhancing the groundwater CAP. The selected remedy has been evaluated through the feasibility assessment process and implemented per the November 24, 2020 *Groundwater Pilot Test Work Plan*, submitted as Georgia EPD Online System (GEOS) Submittal ID: 519457. This semi-annual report will also be submitted to the EPD Watershed Protection Branch as part of the UIC permit requirement.

Hydraulic Gradient and Groundwater Flow Velocity

The December 2020 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 174 feet per year, generally to the northeast and northwest (in a sub-radial pattern).

Surface Water

Eleven surface water sampling points are monitored semi-annually at the landfill and two points identified as SWC-4A, SWC-4B have been added for delineation (all points are listed in

Table A). Location SWC-9 was dry during this event and was not sampled. Surface water samples are analyzed for permit-required parameters COD, total cyanide, total organic carbon, chloride, and metals (as summarized on Table 6). Low-level concentrations of COD, total organic carbon, chloride, and/or barium were detected in one or more samples. An unverified detection of lead occurred in the sample from SWC-7. This detection is likely due to sample turbidity and will be reevaluated during the next event.

Due to detections of VOCs above a GWPS in samples from PH1-GWC-3 and PH1-GWC-3A, Appendix I VOC sampling/analysis has been added[1] to SWC-6 (see Table A). In addition, for delineation purposes SWC-1, SWC-4, SWC-4A, and SWC-4B are monitored for Appendix I VOCs and results are included in Attachment A. A map depicting these locations is provided as Figure 2. The added surface water points are sampled and analyzed to verify that no VOCs are entering the tributaries of the Etowah River. The SWC-4B location serves as a point to delineate VOC results from AMW-12R. There were no detections of VOCs in the SWC-1, SWC-4, SWC-4A, and SWC-4B samples.

There was a detection of cis-1,2-DCE in the sample from SWC-6 at a concentration of 2.7 µg/L. This SWC-6 concentration of cis-1,2-DCE is well below the MCL of 70 µg/L (there is no instream water quality standard for cis-1,2-DCE). There have been three previous detections of cis-1,2-DCE and the current concentration of 2.7 µg/L is lower than the highest observed concentration of 7.4 µg/L from June 2018 (representing a declining trend).

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: 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 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

[1] 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.

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 many 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 event.

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 wells had one or more SSIs during this event, and six 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 five wells with metals SSIs are in the detection monitoring program (Table 7). The detection wells with SSIs were triggered only by low levels of barium and/or cobalt. The current concentrations of barium and cobalt are typical of unimpacted groundwater in the region, and concentrations are well below the respective GWPS. It is recommended that these five wells remain in detection monitoring (Table A).

Summary and Recommendations

The results of the data evaluated from the December 2020 sampling event are summarized below:

- Groundwater generally flows, in a sub-radial pattern, towards the northeast and northwest, at a calculated rate of approximately 174 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 metals concentrations were 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 barium (PH1-GWB-1, PH1-GWC-4, GWC-1, and GWC-9) and cobalt (GWC-14), all 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 at a concentration well below the MCL. There is no established instream water quality standard for cis-1,2-DCE, and the current detection represents a declining trend. Location SWC-6 is monitored for VOCs to delineate concentrations of VOCs in samples from groundwater wells PH1-GWC-3 and PH1-GWC-3A. Three additional surface water points were monitored for VOCs (SWC-1, SWC-4A, and SWC-4B), and no VOCs were detected in these samples.
- 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 event to 11 during the second 2020 event. The total number of concentrations above a GWPS that were also identified as SSIs has also decreased from 25 during the first 2007 event to 10 during the second 2020 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 2021.

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 (COD) & total organic carbon (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 + App I VOCs	GA SW Parameters + App I VOCs	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-4A	App I VOCs	App I VOCs	Surface Water
SWC-4B	App I VOCs	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 (COD) & total organic carbon (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 2020 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	5.28	86	13.7	34.0	0.0
PH1-GWA-1A	Bailer	6.55	82	12.3	27.0	NR
PH1-GWA-2	Bailer	5.42	92	14.8	21.0	0.0
PH1-GWA-3A	Sub. Pump	6.07	53	16.7	0.0	NR
PH1-GWA-4	Bailer	5.57	28	12.8	21.0	NR
PH1-GWB-1	Bailer	4.73	37	12.7	28.6	NR
PH1-GWB-2	Bailer	4.82	46	13.0	23.5	NR
PH1-GWC-1	Bailer	5.98	176	12.3	7.6	NR
PH1-GWC-2	Sub. Pump	6.51	150	11.8	40.0	0.0
PH1-GWC-3	Bailer	5.83	133	13.0	25.0	0.0
PH1-GWC-3A	Bailer	6.19	229	11.0	28.0	0.0
PH1-GWC-4	Bailer	4.96	39	12.5	14.7	NR
GWA-1	Bailer	5.27	43	12.3	85.0	NR
GWA-1A	Sub. Pump	6.13	136	12.3	45.7	NR
GWA-2	Bailer	5.33	25	12.4	10.1	NR
GWA-3	Bailer	5.41	25	13.0	25.0	NR
GWC-1	Bailer	5.37	85	13.3	22.0	NR
GWC-2	Bailer	5.53	21	13.1	21.0	NR
GWC-3	Bailer	5.21	22	12.5	35.0	NR
GWC-3A	Bailer	5.04	35	11.9	15.0	NR
GWC-4	Bailer	5.37	26	12.1	27.2	NR
GWC-4A	Bailer	6.24	104	12.6	80.0	NR
GWC-5	Bailer	5.30	22	13.0	20.8	NR
GWC-6	Bailer	5.56	55	12.9	11.4	NR
GWC-7	Bailer	5.48	79	12.3	17.4	NR
GWC-8	Bailer	5.85	49	16.9	0.0	NR
GWC-8A	Bailer	6.11	364	15.5	10.2	0.0
GWC-8R	Bailer	6.23	315	15.6	**	0.0
GWC-9	Bailer	5.34	97	13.4	47.3	NR
GWC-10	Bailer	5.22	25	14.1	30.0	NR
GWC-10A	Bailer	5.21	56	13.9	30.0	NR
GWC-11	Bailer	5.14	27	13.9	47.0	NR
GWC-12	Bailer	5.17	20	14.0	27.0	NR
GWC-12A	Bailer	5.18	19	14.1	22.0	NR
GWC-13	Bailer	5.79	34	13.6	5.7	NR
GWC-14	Bailer	4.90	36	13.3	3.2	NR
GWC-14A	Bailer	6.24	587	12.7	1.1	0.0
GWC-14R	Sub. Pump	6.10	313	12.7	**	0.0

Notes: Groundwater samples collected December 15-22, 2020.
** = Metals not required.

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 2020 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°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	5.18	74	14.6	0.0	0.0
GWC-18	Bailer	5.18	86	11.9	9.2	0.0
GWC-19R	Bailer	5.43	95	13.9	23.0	0.0
GWC-22	Bailer	5.15	36	13.0	5.8	NR
GWC-23	Bailer	5.79	42	12.7	0.5	NR
GWC-23A	Bailer	6.11	27	12.4	3.9	NR
GWC-24	Bailer	5.44	72	13.3	**	0.0
AMW-1	Sub. Pump	5.86	159	14.0	18.0	0.0
AMW-2	Sub. Pump	6.27	194	11.8	26.0	0.0
AMW-4	Bailer	5.20	205	10.4	**	0.0
AMW-5	Bailer	6.04	129	5.9	**	0.0
AMW-9	Bailer	5.46	30	13.1	25.4	0.0
AMW-12	Bailer	6.17	40	12.9	**	0.0
AMW-12R	Bailer	6.12	66	12.6	**	0.0
AMW-13	Bailer	5.94	48	13.6	1.2	0.0
AMW-14	Bailer	6.02	98	12.1	**	0.0

Notes: Groundwater samples collected December 15-22, 2020.
** = Metals not required.

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 2
Summary of Groundwater Elevation Data
Forsyth County - Hightower Road MSWLF
December 2020 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	41.13	1135.24
PH1-GWA-1A	108.00	1176.35	41.26	1135.09
PH1-GWA-2	53.60	1183.40	35.82	1147.58
PH1-GWA-3A	205.00	1187.16	35.65	1151.51
PH1-GWA-4	57.00	1191.14	36.92	1154.22
PH1-GWB-1	53.80	1179.10	41.17	1137.93
PH1-GWB-2	42.22	1155.04	26.79	1128.25
PH1-GWC-1	23.79	1074.66	7.46	1067.20
PH1-GWC-2	127.61	1103.93	22.14	1081.79
PH1-GWC-3	23.42	1096.96	11.21	1085.75
PH1-GWC-3A	55.42	1096.28	10.11	1086.17
PH1-GWC-4	33.71	1124.26	31.69	1092.57
GWC-1	38.80	1102.25	28.24	1074.01
AMW-8	50.40	1186.23	39.13	1147.10
AMW-9	41.69	1162.64	36.92	1125.72
AMW-10	56.81	1180.73	44.72	1136.01
PHASE II - IV WELLS				
GWA-1	62.85	1187.70	54.30	1133.40
GWA-1A	141.00	1187.49	54.82	1132.67
GWA-2	52.18	1137.30	39.23	1098.07
GWA-3	48.86	1154.53	40.27	1114.26
GWC-2	55.61	1103.64	45.98	1057.66
GWC-3	39.71	1092.39	34.16	1058.23
GWC-3A	68.95	1094.67	32.35	1062.32
GWC-4	49.81	1132.82	42.56	1090.26
GWC-4A	89.23	1132.39	38.98	1093.41
GWC-5	49.91	1084.55	45.53	1039.02
GWC-6	34.52	1064.01	25.13	1038.88
GWC-7	54.21	1093.44	42.01	1051.43
GWC-8	27.53	1095.63	20.70	1074.93
GWC-8A	46.71	1095.44	20.13	1075.31
GWC-8R	94.67	1098.40	23.13	1075.27
GWC-9	60.50	1093.58	48.46	1045.12
GWC-10	37.51	1068.56	23.77	1044.79

Notes: Depths to water measured on December 14, 2020.

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 2020 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	24.33	1042.12
GWC-11	46.80	1054.08	34.26	1019.82
GWC-12	40.06	1038.06	29.61	1008.45
GWC-12A	49.44	1038.09	30.66	1007.43
GWC-13	44.95	1090.82	32.75	1058.07
GWC-14	28.37	1089.49	22.33	1067.16
GWC-14A	64.75	1089.32	22.25	1067.07
GWC-14R	93.61	1078.60	13.62	1064.98
GWC-15	62.84	1125.68	57.74	1067.94
GWC-16A	51.05	1136.49	49.80	1086.69
GWC-17	21.59	1107.78	13.57	1094.21
GWC-18	52.70	1094.87	43.41	1051.46
GWC-19R	39.87	1105.79	26.23	1079.56
GWC-22	35.05	1079.01	20.79	1058.22
GWC-23	32.22	1079.06	16.67	1062.39
GWC-23A	61.67	1079.10	14.19	1064.91
GWC-24	44.09	1102.32	34.91	1067.41
AMW-1	180.70	1130.04	61.11	1068.93
AMW-2	150.00	1101.96	42.70	1059.26
AMW-3	28.50	1041.09	9.31	1031.78
AMW-4	18.80	1040.09	3.96	1036.13
AMW-5	23.06	1049.32	7.38	1041.94
AMW-11R	58.10	1053.63	8.15	1045.48
AMW-12	19.56	1056.85	7.70	1049.15
AMW-12R	46.43	1056.34	9.96	1046.38
AMW-13	36.18	1093.09	32.00	1061.09
AMW-14	21.70	1052.73	9.12	1043.61

Notes: Depths to water measured December 14, 2020.

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 2020 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chloro-benzene (µg/L)	Chloroethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	*810**	*5*	*110**	*4.6**	*70*	*5*	*5*	*2*
PHASE I WELLS								
PH1-GWA-1	--	--	--	--	4.3	--	--	--
PH1-GWA-1A	--	--	--	--	--	--	--	--
PH1-GWA-2	--	--	--	--	52	--	2.5	--
PH1-GWA-3A	--	--	--	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--	--	--	--
PH1-GWB-1	--	--	--	--	--	--	--	--
PH1-GWB-2	--	--	--	--	--	--	--	--
PH1-GWC-1	--	--	--	--	--	--	--	--
PH1-GWC-2	3.8	--	--	--	7.8	**5.3**	2.5	--
PH1-GWC-3	3.6	--	--	--	26	**9.1**	**7.6**	--
PH1-GWC-3A	3.0	--	--	--	16	**5.7**	**8.1**	--
PH1-GWC-4	--	--	--	--	--	--	--	--
GWC-1	--	--	--	--	--	--	--	--
AMW-9	--	--	--	--	--	--	--	--
PHASE II - IV WELLS								
GWA-1	--	--	--	--	--	--	--	--
GWA-1A	--	--	--	--	--	--	--	--
GWA-2	--	--	--	--	--	--	--	--
GWA-3	--	--	--	--	--	--	--	--
GWC-2	--	--	--	--	--	--	--	--
GWC-3	--	--	--	--	--	--	--	--
GWC-3A	--	--	--	--	--	--	--	--
GWC-4	--	--	--	--	--	--	--	--
GWC-4A	--	--	--	--	--	--	--	--
GWC-5	--	--	--	--	--	--	--	--
GWC-6	--	--	--	--	--	--	--	--
GWC-7	--	--	--	--	--	--	--	--
GWC-8	--	--	--	--	--	--	--	--
GWC-8A	3.2	2.3	--	--	31	--	--	--
GWC-8R	12	--	--	--	30	--	--	--

Notes: Groundwater samples collected December 15-22, 2020.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.
Underlined concentrations are considered unverified.

Acronyms: µg/L = micrograms per liter
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 3 (continued)
Summary of Appendix I/II Organic Compound Detections
Forsyth County - Hightower Road MSWLF
December 2020 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chloro-benzene (µg/L)	Chloroethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	*810**	*5*	*110**	*4.6**	*70*	*5*	*5*	*2*
PHASE II - IV WELLS								
GWC-9	--	--	--	--	--	--	--	--
GWC-10	--	--	--	--	--	--	--	--
GWC-10A	--	--	--	--	--	--	--	--
GWC-11	--	--	--	--	--	--	--	--
GWC-12	--	--	--	--	--	--	--	--
GWC-12A	--	--	--	--	--	--	--	--
GWC-13	--	--	--	--	--	--	--	--
GWC-14	--	--	--	--	--	--	--	--
GWC-14A	11	2.9	16	4.2	6.9	--	--	**11**
GWC-14R	19	--	--	--	28	--	3.9	--
GWC-15	Purged Dry; Refer to Surrogate AMW-1							
GWC-16A	Purged Dry; Refer to Surrogate AMW-2							
GWC-17	--	--	--	--	22	--	--	--
GWC-18	--	--	--	--	26	**6.4**	2.4	--
GWC-19R	--	--	--	--	7.9	--	--	--
GWC-22	--	--	--	--	--	--	--	--
GWC-23	--	--	--	--	--	--	--	--
GWC-23A	--	--	--	--	--	--	--	--
GWC-24	--	--	--	--	3.5	--	--	--
AMW-1	33	3.1	--	--	**110**	**19**	**45**	--
AMW-2	--	--	--	--	2.3	--	--	--
AMW-4	--	--	--	--	16	3.8	2.1	--
AMW-5	--	--	--	--	3.5	--	--	--
AMW-12	--	--	--	--	--	3.3	--	--
AMW-12R	3.4	--	--	--	2.8	**13**	2.8	--
AMW-13	--	--	--	--	--	--	--	--
AMW-14	--	--	--	--	2.8	--	--	--

Notes: Groundwater samples collected December 15-22, 2020.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.
Underlined concentrations are considered unverified.

Acronyms: µg/L = micrograms per liter
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 4
Summary of Appendix I/II Metal Detections
Forsyth County - Hightower Road MSWLF
December 2020 Sampling Event

Monitoring Well ID	Barium (mg/L)	Cobalt (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	*2*	*0.73**	*0.1*	*5***
PHASE I WELLS				
PH1-GWA-1	--	0.0956	--	--
PH1-GWA-1A	0.0274	--	--	--
PH1-GWA-2	0.0655	--	--	--
PH1-GWA-3A	--	--	--	--
PH1-GWA-4	--	--	--	--
PH1-GWB-1	0.0505	--	--	--
PH1-GWB-2	--	--	--	0.0216
PH1-GWC-1	0.0321	--	--	--
PH1-GWC-2	--	--	--	--
PH1-GWC-3	0.0256	--	--	--
PH1-GWC-3A	0.0259	--	--	--
PH1-GWC-4	0.0564	--	--	--
GWC-1	0.0811	--	--	--
AMW-9	--	--	--	--
PHASE II - IV WELLS				
GWA-1	0.0270	--	--	0.0211
GWA-1A	0.0319	--	--	--
GWA-2	0.0220	--	--	--
GWA-3	--	--	--	--
GWC-2	--	--	--	--
GWC-3	--	--	--	--
GWC-3A	0.0316	--	--	--
GWC-4	0.0315	--	--	--
GWC-4A	0.0305	--	--	--
GWC-5	--	--	--	--
GWC-6	--	--	--	--
GWC-7	0.0388	--	--	--
GWC-8	0.0330	--	--	--
GWC-8A	0.0468	--	--	--

Notes: Groundwater samples collected December 15-22, 2020.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.
** Secondary EPA MCL.
Georgia MCL is used for nickel per 391-3-5-.18(1)(a).
Treatment Technique is used for copper.

Acronyms: mg/L = milligrams per liter
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 4 (continued)
Summary of Appendix I/II Metal Detections
Forsyth County - Hightower Road MSWLF
December 2020 Sampling Event

Monitoring Well ID	Barium (mg/L)	Cobalt (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	*2*	*0.73**	*0.1*	*5***
PHASE II - IV WELLS				
GWC-9	0.0900	--	--	0.0419
GWC-10	--	--	--	--
GWC-10A	0.0325	--	--	--
GWC-11	0.0254	--	--	--
GWC-12	0.0226	--	--	--
GWC-12A	--	--	--	--
GWC-13	--	--	--	--
GWC-14	0.0722	0.0555	--	--
GWC-14A	0.171	0.298	0.0236	--
GWC-15	Purged Dry; Refer to Surrogate AMW-1			
GWC-16A	Purged Dry; Refer to Surrogate AMW-2			
GWC-17	0.0407	--	--	--
GWC-18	0.160	--	--	--
GWC-19R	0.0765	--	--	--
GWC-22	0.0204	--	--	--
GWC-23	--	--	--	--
GWC-23A	--	--	--	--
AMW-1	0.0547	--	--	--
AMW-2	0.0252	--	--	--
AMW-13	--	--	--	--

Notes: Groundwater samples collected December 15-22, 2020.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.
** Secondary EPA MCL.
Georgia MCL is used for nickel per 391-3-5-.18(1)(a).
Treatment Technique is used for copper.

Acronyms: mg/L = milligrams per liter
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
Corrective Action Plan
December 2020 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	5.74	14	2.1	1.1	0.0	3.4	230	35	--
PHASE I ASSESSMENT WELLS									
PH1-GWA-1	33.1	44	2.4	1.0	1.5	4.5	154	225	--
PH1-GWA-2	34.3	68	3.7	--	0.5	5.2	148	225	--
PH1-GWC-2	65.6	93	4.2	2.4	0.0	3.9	239	50	--
PH1-GWC-3	59.7	86	5.0	2.9	0.5	4.1	165	125	--
PH1-GWC-3A	81.5	104	2.1	1.6	0.0	4.8	148	60	--
PHASE II - IV ASSESSMENT WELLS									
GWC-8A	55.0	129	4.1	1.4	4.0	2.9	5	250	--
GWC-8R	123	153	3.7	3.1	3.0	3.3	62	150	--
GWC-14A	133	176	15	3.5	3.0	4.5	41	450	--
GWC-14R	143	166	5.4	3.1	0.5	5.0	170	210	--
GWC-15	Purged Dry; Refer to AMW-1								
AMW-1	68.1	84	2.0	2.3	0.5	4.7	142	125	--
GWC-16A	Purged Dry; Refer to AMW-2								
AMW-2	78.7	108	2.3	9.4	0.0	4.8	243	90	0.36
GWC-17	31.9	52	2.8	1.4	0.5	2.1	119	100	0.70
GWC-18	21.0	48	4.5	1.0	5.0	4.6	231	100	1.0
GWC-19R	38.5	60	3.4	2.0	1.5	4.4	134	300	--
GWC-24	23.3	43	3.4	1.9	0.0	3.5	178	175	--
AMW SERIES WELLS									
AMW-4	37.2	58	3.3	1.5	0.0	4.6	267	50	0.32
AMW-5	34.7	62	4.0	3.0	0.0	5.3	133	30	--
AMW-14	33.8	63	3.8	2.8	0.0	2.4	148	20	--

Notes: [1] = Field measurement.
Units are mg/L unless otherwise noted.
Groundwater samples collected December 15-22, 2020.
-- = Below laboratory reporting limit.

Acronyms: mg/L = milligrams per liter
rel MV = relative millivolts
ORP = Oxidation reduction potential

Table 5
Groundwater Flow Rate Calculation
Forsyth County - Hightower Road MSWLF
December 2020 Sampling Event

Equation

$$v = \frac{k\,(i)}{n_e}$$

where: V = groundwater velocity
k = hydraulic conductivity
i = hydraulic gradient (dh/dl)
dh = the difference between two hydraulic heads
dl = the flow path length between the two piezometers
n_e = effective porosity

Values Used in Calculation

k =	1.0	ft/day	(reference 1)
i^1 =	0.082	ft/ft	PH1-GWA-2 to GWC-1
i^2 =	0.110	ft/ft	GWA-3 to GWC-2
i^3 =	0.089	ft/ft	GWA-2 to GWC-23
i^4 =	0.100	ft/ft	GWC-8 to AMW-11R
i^{AVE} =	0.095	ft/ft	Average
n_e =	0.20	unitless	(reference 1)

Calculation

$$v = \frac{(1.0\ \text{ft/day})\ (0.095\ \text{ft/ft})}{20\%}$$

$$v = 0.48\ \text{ft/day}$$

$$v = 174\ \text{ft/year}$$

Notes: ft = feet

Reference:

(1) Site average hydraulic conductivity for GWA-2, GWC-3, GWC-4, & GWC-10 (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 2020 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)	Lead (mg/L)
SWA-1	NS	1.35	--	3.57	0.0280	--
SWA-2	NS	1.12	--	2.23	--	--
SWC-1	--	4.03	--	5.68	--	--
SWC-2	NS	1.49	--	3.60	--	--
SWC-3	NS	1.40	--	3.42	0.0210	--
SWC-4	--	1.76	--	3.84	0.0331	--
SWC-4A	--	NS	NS	NS	NS	NS
SWC-4B	--	NS	NS	NS	NS	NS
SWC-5	NS	6.22	14.0	10.4	0.0389	--
SWC-6	2.7	4.45	--	14.8	0.0211	--
SWC-7	NS	10.2	23.1	6.07	--	0.0298
SWC-8	NS	16.8	48.0	4.74	0.0244	--

ID	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
SWA-1	5.49	45	10.8	86.7	5.3
SWA-2	6.40	46	10.1	208	6.6
SWC-1	5.92	80	10.8	28.0	6.8
SWC-2	6.45	47	10.6	258	6.5
SWC-3	6.79	55	11.0	288	6.9
SWC-4	6.65	42	10.6	545	7.1
SWC-4A	6.92	32	10.6	63.0	8.0
SWC-4B	6.58	44	10.3	296	6.9
SWC-5	5.86	228	11.6	41.4	7.6
SWC-6	5.38	245	12.2	63.0	9.0
SWC-7	5.72	42	10.7	45.9	6.8
SWC-8	6.06	76	10.8	117	8.2
SWC-9	Dry				

Notes: Surface water samples were collected on December 14, 2020.
-- = Below laboratory reporting limit.
Surface water samples are grab samples.
No VOCs detected in SWC-1, SWC-4, SWC-4A, SWC-4B samples.

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

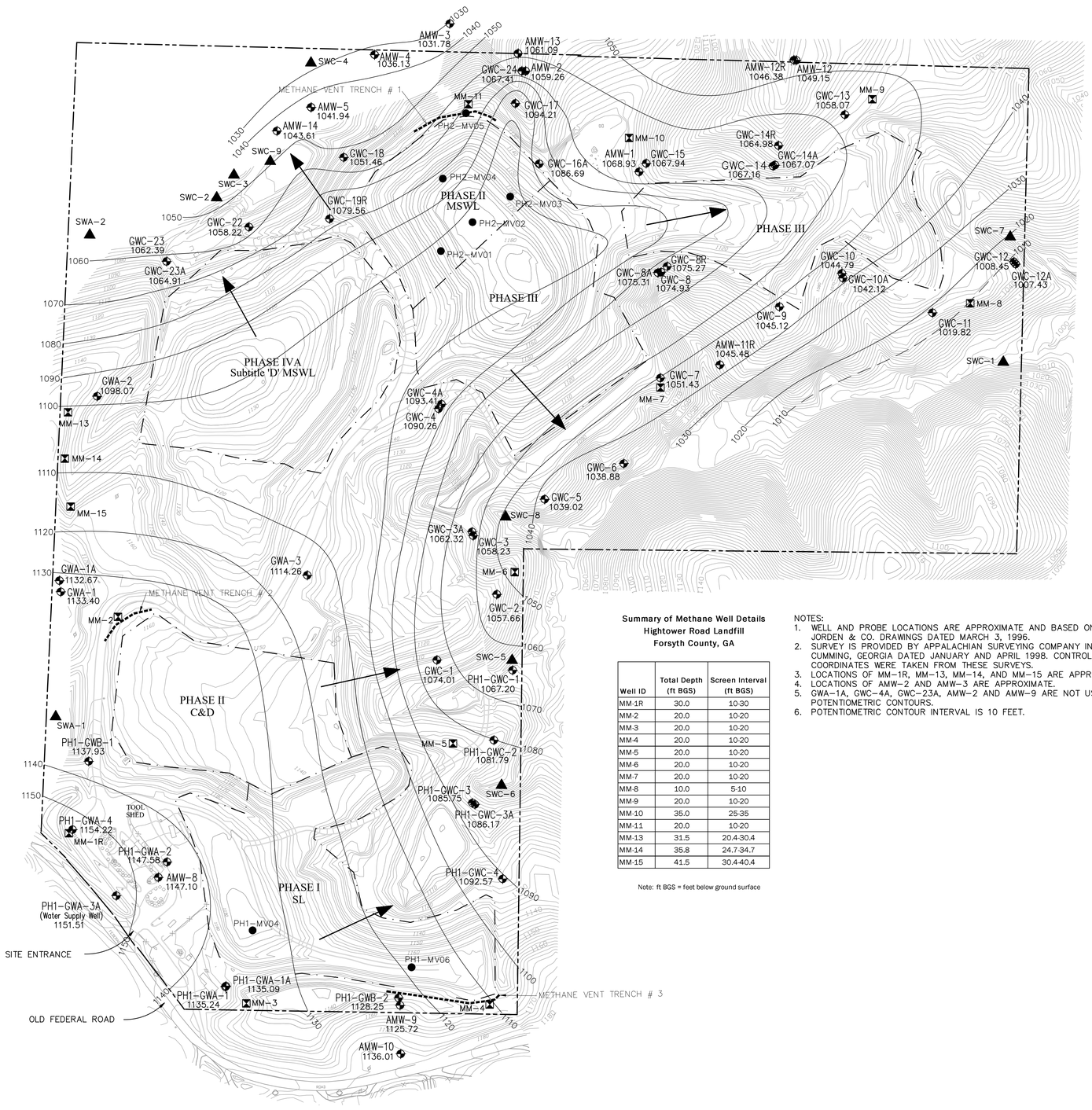
Table 7
Summary of Statistically Significant Increases
Forsyth County - Hightower Road MSWLF
December 2020 Sampling Event

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 Nickel
PHASE I DOWNGRADIENT NETWORK WELLS*										
PH1-GWA-1				X					X	
PH1-GWA-2				X		X		X		
PH1-GWB-1								X		
PH1-GWC-1										
PH1-GWC-2	X			X	X					
PH1-GWC-3	X			X	X	X				
PH1-GWC-3A	X			X	X	X				
PH1-GWC-4								X		
GWC-1								X		
PHASE II - IV DOWNGRADIENT NETWORK WELLS*										
GWA-3										
GWC-3A										
GWC-4A										
GWC-7										
GWC-8										
GWC-8A	X	X		X				X		
GWC-8R	X			X						
GWC-9								X		
GWC-10										
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



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 2020 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	41.13	1135.24
PH1-GWA-1A	108.00	1176.35	41.26	1135.09
PH1-GWA-2	53.60	1183.40	35.82	1147.58
PH1-GWA-3A	205.00	1187.16	35.65	1151.51
PH1-GWA-4	57.00	1191.14	36.92	1154.22
PH1-GWB-1	53.80	1179.10	41.17	1137.93
PH1-GWB-2	42.22	1155.04	26.79	1128.25
PH1-GWC-1	23.79	1074.66	7.46	1067.20
PH1-GWC-2	127.61	1103.93	22.14	1081.79
PH1-GWC-3	23.42	1096.96	11.21	1085.75
PH1-GWC-3A	55.42	1096.28	10.11	1086.17
PH1-GWC-4	33.71	1124.26	31.69	1092.57
GWC-1	38.80	1102.25	28.24	1074.01
AMW-8	50.40	1186.23	39.13	1147.10
AMW-9	41.69	1162.64	36.92	1125.72
AMW-10	56.81	1180.73	44.72	1136.01
PHASE II - IV WELLS				
GWA-1	62.85	1187.70	54.30	1133.40
GWA-1A	141.00	1187.49	54.82	1132.67
GWA-2	52.18	1137.30	39.23	1098.07
GWA-3	48.86	1154.53	40.27	1114.26
GWC-2	55.61	1103.64	45.98	1057.66
GWC-3	39.71	1092.39	34.16	1058.23
GWC-3A	68.95	1094.67	32.35	1062.32
GWC-4	49.81	1132.82	42.56	1090.26
GWC-4A	89.23	1132.39	38.98	1093.41
GWC-5	49.91	1084.55	45.53	1039.02
GWC-6	34.52	1064.01	25.13	1038.88
GWC-7	54.21	1093.44	42.01	1051.43
GWC-8	27.53	1095.63	20.70	1074.93
GWC-8A	46.71	1095.44	20.13	1075.31
GWC-8R	94.67	1098.40	23.13	1075.27
GWC-9	60.50	1093.58	48.46	1045.12
GWC-10	37.51	1068.56	23.77	1044.79

Notes: Depths to water measured on December 14, 2020.

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 2020 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	24.33	1042.12
GWC-11	46.80	1054.08	34.26	1019.82
GWC-12	40.06	1038.06	29.61	1008.45
GWC-12A	49.44	1038.09	30.66	1007.43
GWC-13	44.95	1090.82	32.75	1058.07
GWC-14	28.37	1089.49	22.33	1067.16
GWC-14A	64.75	1089.32	22.25	1067.07
GWC-14R	93.61	1078.60	13.62	1064.98
GWC-15	62.84	1125.68	57.74	1067.94
GWC-16A	51.05	1136.49	49.80	1086.69
GWC-17	21.59	1107.78	13.57	1094.21
GWC-18	52.70	1094.87	43.41	1051.46
GWC-19R	39.87	1105.79	26.23	1079.56
GWC-22	35.05	1079.01	20.79	1058.22
GWC-23	32.22	1079.06	16.67	1062.39
GWC-23A	61.67	1079.10	14.19	1064.91
GWC-24	44.09	1102.32	34.91	1067.41
AMW-1	180.70	1130.04	61.11	1068.93
AMW-2	150.00	1101.96	42.70	1059.26
AMW-3	28.50	1041.09	9.31	1031.78
AMW-4	18.80	1040.09	3.96	1036.13
AMW-5	23.06	1049.32	7.38	1041.94
AMW-11R	58.10	1053.63	8.15	1045.48
AMW-12	19.56	1056.85	7.70	1049.15
AMW-12R	46.43	1056.34	9.96	1046.38
AMW-13	36.18	1093.09	32.00	1061.09
AMW-14	21.70	1052.73	9.12	1043.61

Notes: Depths to water measured December 14, 2020.

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

N

150 0 75 150 300 600
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

CHARLES BRISENDINE ADAMS
No. 1633
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

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: TG
Checked by: CA

PROJECT NUMBER:
G020-113
January 2021

POTENTIOMETRIC SURFACE MAP DECEMBER 2020

FIGURE 1

P:\Governmental\G020-Forsyth County\113-2020 Environmental Monitoring Services\4-2nd 2020 GWM Event\DWG\Forsyth Co 2nd 2020 Pot Map.dwg 2021-02-01 CHARLES ADAMS

LEGEND

- APPROXIMATE PHASE BOUNDARY
- 1140 TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- TREELINE
- ROAD
- SWA-4A SURFACE WATER LOCATION (VERIFICATION)
- PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
- METHANE VENT TRENCH

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.

300 0 150 300 600

SCALE: 1" = 300' (IN FEET)

ATLANTIC COAST CONSULTING, INC.
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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:

G020-113

October 2019

ADDITIONAL SURFACE WATER SAMPLE LOCATION MAP

FIGURE 2

P:\Governmental\G020 - Forsyth County\113 - 2019 Environmental Monitoring Services\3 - 1st 2019 GWM Event\DWG\Forsyth Co Site Map-SW 2019.dwg 2019-10-07 CHARLES ADAMS

ATTACHMENTS

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 23, 2020

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County- Hightower Road Landfill

Dear Charles Adams: Order No: 2012J67

Analytical Environmental Services, Inc. received 24 samples on 12/16/2020 4:20:00 PM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/20-06/30/21.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/21 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-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

Jessica Shilling

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 20125107

Date: 12-15-20 Page _____ of _____

COMPANY:	ADDRESS:
Atlantic Coast Consulting, INC	1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076
PHONE: 770-594-5998	FAX:
SAMPLED BY: HA/TJ	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity										REMARKS	No # of Containers
	PRESERVATION (See codes)																			
1	GWC-8A	12-15-20	1255	✓		GW	✓		✓											3
2	GWC-8R	12-15-20	1215	✓		GW	✓		✓											3
3	GWC-13	12-15	1525	✓		GW	✓													2
4	GWC-14A	12-15	1115	✓		GW	✓		✓											3
5	GWC-17	12-15	to 1330	✓		GW	✓		✓											3
6	GWC-18	12-15	1010	✓		GW	✓		✓											3
7	GWC-24	12-15	1450	✓		GW	✓		✓											3
8	AMW-4	12-15	0900	✓		GW	✓		✓											3
9	AMW-5	12-15	0920	✓		GW	✓		✓											3
10	AMW-13	12-15	1505	✓		GW	✓		✓											2 (HA)
11	AMW-14	12-15	0945	✓		GW	✓		✓											3
12	Field Blank 1	12-15	1515	✓		W ~~GW~~ BMD	✓	✓												3
13	GWC-10	12-15	1345	✓		GW	✓													2
14	GWC-10A	12-15-20	1335	✓		GW	✓													2

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:		1:	12-16 346
2:	12-16 422	2:	12/16/20 4:22
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☒ COURIER

☐ GREYHOUND ☐ OTHER_____

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Charles Adams

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RECEIPT

Total # of Containers

Turnaround Time Request

- ☑ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☐ Next Business Day Rush
- ☐ Same Day Rush (auth req.)
- ☐ Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)

PRESERVATIVE CODES: H+l = Hydrochloric acid + ice I = Ice only N = Nitric acid S+l = Sulfuric acid + ice S/M+l = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 20127167

Date: 12-15 Page _____ of _____

COMPANY:	ADDRESS:
Atlantic Coast Consulting, INC	1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076
PHONE: 770-594-5998	FAX:
SAMPLED BY: HA / TJ	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity										REMARKS	No # of Containers
	PRESERVATION (See codes)																			
1	GWC-11	12-15	1425	✓		GW	✓													2
2	GWC-12	12-15	1440	✓		GW	✓													2
3	GWC-12A	12-15	1500	✓		GW	✓													2
4	GWC-19R	12-15	1530	✓		GW	✓		✓											3
5	Trip Blank	—	—	✓	W	~~GW~~ BMD	✓													2
6	PH1-GWA-1	12-15	1225	✓		GW	✓		✓											3
7	PH1-GWA-2	12-15	1300	✓		GW	✓		✓											3
8	PH1-GWA-4	12-15	1150	✓		GW	✓		✓											3
9	PH1-GWA PH1-GWC-3	12-15	1115	✓		GW	✓		✓											3
10	PH1-GWC-3A	12-15	1050	✓		GW	✓		✓											3
11				✓		GW														
12				✓		GW														
13				✓		GW														
14				✓		GW														

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:		1:	12-16 346
2:	12-16 422	2:	12/16/20 4:22
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☒ COURIER

☐ GREYHOUND ☐ OTHER_____

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

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RECEIPT

Total # of Containers

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- ☑ Standard 5 Business Days
- ☐ 2 Business Day Rush
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- ☐ Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

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MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)

PRESERVATIVE CODES: H+l = Hydrochloric acid + ice I = Ice only N = Nitric acid S+l = Sulfuric acid + ice S/M+l = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 12:55:00 PM
Lab ID:	2012J67-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	129	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	4.1	0.50		mg/L	R442767	1	12/17/2020 02:40	IP
Nitrate	BRL	0.25		mg/L	R442767	1	12/17/2020 02:40	IP
Sulfate	1.4	1.0		mg/L	R442767	1	12/17/2020 02:40	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,1-Dichloroethane	3.2	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 17:34	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 17:34	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 17:34	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 17:34	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 17:34	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 17:34	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 17:34	OM
Benzene	2.3	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 17:34	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
cis-1,2-Dichloroethene	31	2.0		ug/L	307780	1	12/20/2020 17:34	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 17:34	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 17:34	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM

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:**	GWC-8A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 12:55:00 PM
Lab ID:	2012J67-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 17:34	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 17:34	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 17:34	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 17:34	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 17:34	OM
Surr: 4-Bromofluorobenzene	89.7	74.9-127		%REC	307780	1	12/20/2020 17:34	OM
Surr: Dibromofluoromethane	92.9	78.9-121		%REC	307780	1	12/20/2020 17:34	OM
Surr: Toluene-d8	96.6	81.5-120		%REC	307780	1	12/20/2020 17:34	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	55.0	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	GWC-8R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 12:15:00 PM
Lab ID:	2012J67-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	153	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	3.7	0.50		mg/L	R442760	1	12/17/2020 01:45	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/17/2020 01:45	IP
Sulfate	3.1	1.0		mg/L	R442760	1	12/17/2020 01:45	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,1-Dichloroethane	12	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 17:59	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 17:59	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 17:59	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 17:59	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 17:59	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 17:59	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 17:59	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 17:59	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
cis-1,2-Dichloroethene	30	2.0		ug/L	307780	1	12/20/2020 17:59	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 17:59	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 17:59	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM

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:**	GWC-8R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 12:15:00 PM
Lab ID:	2012J67-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 17:59	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 17:59	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 17:59	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 17:59	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 17:59	OM
Surr: 4-Bromofluorobenzene	89.9	74.9-127		%REC	307780	1	12/20/2020 17:59	OM
Surr: Dibromofluoromethane	95.4	78.9-121		%REC	307780	1	12/20/2020 17:59	OM
Surr: Toluene-d8	96.1	81.5-120		%REC	307780	1	12/20/2020 17:59	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	123	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	GWC-13
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:25:00 PM
Lab ID:	2012J67-003	**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	307780	1	12/20/2020 18:23	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 18:23	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 18:23	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 18:23	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 18:23	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 18:23	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 18:23	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 18:23	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 18:23	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 18:23	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 18:23	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 18:23	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:23	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 18:23	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 18:23	OM

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:**	GWC-13
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:25:00 PM
Lab ID:	2012J67-003	**Matrix:**	Groundwater

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	307780	1	12/20/2020 18:23	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 18:23	OM
Surr: 4-Bromofluorobenzene	91.8	74.9-127		%REC	307780	1	12/20/2020 18:23	OM
Surr: Dibromofluoromethane	96	78.9-121		%REC	307780	1	12/20/2020 18:23	OM
Surr: Toluene-d8	95.4	81.5-120		%REC	307780	1	12/20/2020 18:23	OM

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:**	GWC-14A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 11:15:00 AM
Lab ID:	2012J67-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	176	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	15	0.50		mg/L	R442760	1	12/17/2020 00:17	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/17/2020 00:17	IP
Sulfate	3.5	1.0		mg/L	R442760	1	12/17/2020 00:17	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,1-Dichloroethane	11	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 18:48	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 18:48	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 18:48	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 18:48	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 18:48	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 18:48	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 18:48	OM
Benzene	2.9	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 18:48	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Chlorobenzene	16	10		ug/L	307780	1	12/20/2020 18:48	OM
Chloroethane	4.2	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
cis-1,2-Dichloroethene	69	2.0		ug/L	307780	1	12/20/2020 18:48	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 18:48	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 18:48	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM

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:**	GWC-14A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 11:15:00 AM
Lab ID:	2012J67-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 18:48	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 18:48	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 18:48	OM
Vinyl chloride	11	2.0		ug/L	307780	1	12/20/2020 18:48	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 18:48	OM
Surr: 4-Bromofluorobenzene	91.4	74.9-127		%REC	307780	1	12/20/2020 18:48	OM
Surr: Dibromofluoromethane	97.9	78.9-121		%REC	307780	1	12/20/2020 18:48	OM
Surr: Toluene-d8	95.4	81.5-120		%REC	307780	1	12/20/2020 18:48	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	133	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	GWC-17
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:30:00 PM
Lab ID:	2012J67-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	52	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	2.8	0.50		mg/L	R442767	1	12/17/2020 03:24	IP
Nitrate	0.70	0.25		mg/L	R442767	1	12/17/2020 03:24	IP
Sulfate	1.4	1.0		mg/L	R442767	1	12/17/2020 03:24	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 19:12	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 19:12	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 19:12	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 19:12	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 19:12	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 19:12	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 19:12	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 19:12	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
cis-1,2-Dichloroethene	22	2.0		ug/L	307780	1	12/20/2020 19:12	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 19:12	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 19:12	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM

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:**	GWC-17
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:30:00 PM
Lab ID:	2012J67-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 19:12	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 19:12	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 19:12	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 19:12	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 19:12	OM
Surr: 4-Bromofluorobenzene	90	74.9-127		%REC	307780	1	12/20/2020 19:12	OM
Surr: Dibromofluoromethane	95.4	78.9-121		%REC	307780	1	12/20/2020 19:12	OM
Surr: Toluene-d8	95.9	81.5-120		%REC	307780	1	12/20/2020 19:12	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	31.9	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	GWC-18
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 10:10:00 AM
Lab ID:	2012J67-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	48	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	4.5	0.50		mg/L	R442760	1	12/16/2020 21:23	IP
Nitrate	1.0	0.25		mg/L	R442760	1	12/16/2020 21:23	IP
Sulfate	1.0	1.0		mg/L	R442760	1	12/16/2020 21:23	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 19:37	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 19:37	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 19:37	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 19:37	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 19:37	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 19:37	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 19:37	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 19:37	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
cis-1,2-Dichloroethene	26	2.0		ug/L	307780	1	12/20/2020 19:37	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 19:37	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 19:37	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM

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:**	GWC-18
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 10:10:00 AM
Lab ID:	2012J67-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	6.4	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 19:37	OM
Trichloroethene	2.4	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 19:37	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 19:37	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 19:37	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 19:37	OM
Surr: 4-Bromofluorobenzene	89.7	74.9-127		%REC	307780	1	12/20/2020 19:37	OM
Surr: Dibromofluoromethane	94.4	78.9-121		%REC	307780	1	12/20/2020 19:37	OM
Surr: Toluene-d8	94.1	81.5-120		%REC	307780	1	12/20/2020 19:37	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	21.0	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	GWC-24
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 2:50:00 PM
Lab ID:	2012J67-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	43	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	3.4	0.50		mg/L	R442767	1	12/17/2020 03:34	IP
Nitrate	BRL	0.25		mg/L	R442767	1	12/17/2020 03:34	IP
Sulfate	1.9	1.0		mg/L	R442767	1	12/17/2020 03:34	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 20:02	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 20:02	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 20:02	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 20:02	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 20:02	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 20:02	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 20:02	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 20:02	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
cis-1,2-Dichloroethene	3.5	2.0		ug/L	307780	1	12/20/2020 20:02	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 20:02	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 20:02	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM

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:**	GWC-24
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 2:50:00 PM
Lab ID:	2012J67-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 20:02	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 20:02	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 20:02	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 20:02	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 20:02	OM
Surr: 4-Bromofluorobenzene	92.3	74.9-127		%REC	307780	1	12/20/2020 20:02	OM
Surr: Dibromofluoromethane	94	78.9-121		%REC	307780	1	12/20/2020 20:02	OM
Surr: Toluene-d8	95.9	81.5-120		%REC	307780	1	12/20/2020 20:02	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	23.3	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	AMW-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 9:00:00 AM
Lab ID:	2012J67-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	58	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	3.3	0.50		mg/L	R442760	1	12/16/2020 20:51	IP
Nitrate	0.32	0.25		mg/L	R442760	1	12/16/2020 20:51	IP
Sulfate	1.5	1.0		mg/L	R442760	1	12/16/2020 20:51	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 20:27	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 20:27	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 20:27	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 20:27	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 20:27	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 20:27	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 20:27	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 20:27	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
cis-1,2-Dichloroethene	16	2.0		ug/L	307780	1	12/20/2020 20:27	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 20:27	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 20:27	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 9:00:00 AM
Lab ID:	2012J67-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	3.8	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 20:27	OM
Trichloroethene	2.1	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 20:27	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 20:27	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 20:27	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 20:27	OM
Surr: 4-Bromofluorobenzene	90.8	74.9-127		%REC	307780	1	12/20/2020 20:27	OM
Surr: Dibromofluoromethane	95.1	78.9-121		%REC	307780	1	12/20/2020 20:27	OM
Surr: Toluene-d8	95.6	81.5-120		%REC	307780	1	12/20/2020 20:27	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	37.2	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	AMW-5
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 9:20:00 AM
Lab ID:	2012J67-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	62	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	4.0	0.50		mg/L	R442760	1	12/16/2020 21:02	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/16/2020 21:02	IP
Sulfate	3.0	1.0		mg/L	R442760	1	12/16/2020 21:02	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 20:51	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 20:51	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 20:51	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 20:51	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 20:51	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 20:51	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 20:51	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 20:51	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
cis-1,2-Dichloroethene	3.5	2.0		ug/L	307780	1	12/20/2020 20:51	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 20:51	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 20:51	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM

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:**	AMW-5
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 9:20:00 AM
Lab ID:	2012J67-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 20:51	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 20:51	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 20:51	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 20:51	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 20:51	OM
Surr: 4-Bromofluorobenzene	91.5	74.9-127		%REC	307780	1	12/20/2020 20:51	OM
Surr: Dibromofluoromethane	97.6	78.9-121		%REC	307780	1	12/20/2020 20:51	OM
Surr: Toluene-d8	94.7	81.5-120		%REC	307780	1	12/20/2020 20:51	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	34.7	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	AMW-13
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:05:00 PM
Lab ID:	2012J67-010	**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	307780	1	12/20/2020 21:16	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 21:16	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 21:16	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 21:16	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 21:16	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 21:16	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 21:16	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 21:16	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 21:16	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 21:16	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 21:16	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 21:16	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:16	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 21:16	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 21:16	OM

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:**	AMW-13
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:05:00 PM
Lab ID:	2012J67-010	**Matrix:**	Groundwater

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	307780	1	12/20/2020 21:16	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 21:16	OM
Surr: 4-Bromofluorobenzene	92	74.9-127		%REC	307780	1	12/20/2020 21:16	OM
Surr: Dibromofluoromethane	95.7	78.9-121		%REC	307780	1	12/20/2020 21:16	OM
Surr: Toluene-d8	94.9	81.5-120		%REC	307780	1	12/20/2020 21:16	OM

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:**	AMW-14
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 9:45:00 AM
Lab ID:	2012J67-011	**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	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	3.8	0.50		mg/L	R442760	1	12/16/2020 21:12	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/16/2020 21:12	IP
Sulfate	2.8	1.0		mg/L	R442760	1	12/16/2020 21:12	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 21:40	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 21:40	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 21:40	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 21:40	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 21:40	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 21:40	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 21:40	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 21:40	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
cis-1,2-Dichloroethene	2.8	2.0		ug/L	307780	1	12/20/2020 21:40	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 21:40	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 21:40	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM

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:**	AMW-14
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 9:45:00 AM
Lab ID:	2012J67-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 21:40	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 21:40	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 21:40	OM
Vinyl chloride	BRL	2.0		ug/L	307780	1	12/20/2020 21:40	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 21:40	OM
Surr: 4-Bromofluorobenzene	90.4	74.9-127		%REC	307780	1	12/20/2020 21:40	OM
Surr: Dibromofluoromethane	94.5	78.9-121		%REC	307780	1	12/20/2020 21:40	OM
Surr: Toluene-d8	96.2	81.5-120		%REC	307780	1	12/20/2020 21:40	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	33.8	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	FIELD BLANK 1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:15:00 PM
Lab ID:	2012J67-012	**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	307780	1	12/20/2020 22:05	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 22:05	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 22:05	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 22:05	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 22:05	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 22:05	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 22:05	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 22:05	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 22:05	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 22:05	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 22:05	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 22:05	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:05	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 22:05	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 22:05	OM

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:**	FIELD BLANK 1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:15:00 PM
Lab ID:	2012J67-012	**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	307780	1	12/20/2020 22:05	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 22:05	OM
Surr: 4-Bromofluorobenzene	90.4	74.9-127		%REC	307780	1	12/20/2020 22:05	OM
Surr: Dibromofluoromethane	96.3	78.9-121		%REC	307780	1	12/20/2020 22:05	OM
Surr: Toluene-d8	95.8	81.5-120		%REC	307780	1	12/20/2020 22:05	OM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307614	1	12/22/2020 17:23	DK
Arsenic	BRL	0.0100		mg/L	307614	1	12/22/2020 17:23	DK
Barium	BRL	0.0200		mg/L	307614	1	12/22/2020 17:23	DK
Beryllium	BRL	0.00300		mg/L	307614	1	12/22/2020 17:23	DK
Cadmium	BRL	0.00500		mg/L	307614	1	12/22/2020 17:23	DK
Chromium	BRL	0.0100		mg/L	307614	1	12/22/2020 17:23	DK
Cobalt	BRL	0.0400		mg/L	307614	1	12/22/2020 17:23	DK
Copper	BRL	0.0200		mg/L	307614	1	12/22/2020 17:23	DK
Lead	BRL	0.0150		mg/L	307614	1	12/22/2020 17:23	DK
Nickel	BRL	0.0200		mg/L	307614	1	12/22/2020 17:23	DK
Selenium	BRL	0.0100		mg/L	307614	1	12/22/2020 17:23	DK
Silver	BRL	0.0100		mg/L	307614	1	12/22/2020 17:23	DK
Thallium	BRL	0.00200		mg/L	307614	1	12/22/2020 17:23	DK
Vanadium	BRL	0.0200		mg/L	307614	1	12/22/2020 17:23	DK
Zinc	BRL	0.0200		mg/L	307614	1	12/22/2020 17:23	DK

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:**	GWC-10
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:45:00 PM
Lab ID:	2012J67-013	**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	307780	1	12/20/2020 22:30	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 22:30	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 22:30	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 22:30	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 22:30	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 22:30	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 22:30	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 22:30	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 22:30	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 22:30	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 22:30	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 22:30	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:30	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 22:30	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 22:30	OM

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:**	GWC-10
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:45:00 PM
Lab ID:	2012J67-013	**Matrix:**	Groundwater

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	307780	1	12/20/2020 22:30	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 22:30	OM
Surr: 4-Bromofluorobenzene	91.9	74.9-127		%REC	307780	1	12/20/2020 22:30	OM
Surr: Dibromofluoromethane	95.8	78.9-121		%REC	307780	1	12/20/2020 22:30	OM
Surr: Toluene-d8	95.3	81.5-120		%REC	307780	1	12/20/2020 22:30	OM

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:**	GWC-10A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:35:00 PM
Lab ID:	2012J67-014	**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	307780	1	12/20/2020 22:54	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 22:54	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 22:54	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 22:54	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 22:54	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 22:54	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 22:54	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 22:54	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 22:54	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 22:54	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 22:54	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 22:54	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 22:54	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 22:54	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 22:54	OM

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:**	GWC-10A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:35:00 PM
Lab ID:	2012J67-014	**Matrix:**	Groundwater

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	307780	1	12/20/2020 22:54	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 22:54	OM
Surr: 4-Bromofluorobenzene	91.8	74.9-127		%REC	307780	1	12/20/2020 22:54	OM
Surr: Dibromofluoromethane	97.5	78.9-121		%REC	307780	1	12/20/2020 22:54	OM
Surr: Toluene-d8	95.6	81.5-120		%REC	307780	1	12/20/2020 22:54	OM

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:**	GWC-11
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 2:25:00 PM
Lab ID:	2012J67-015	**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	307780	1	12/20/2020 23:18	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 23:18	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 23:18	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 23:18	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 23:18	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 23:18	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 23:18	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 23:18	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 23:18	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 23:18	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 23:18	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 23:18	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:18	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 23:18	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 23:18	OM

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-11
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 2:25:00 PM
Lab ID:	2012J67-015	**Matrix:**	Groundwater

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	307780	1	12/20/2020 23:18	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 23:18	OM
Surr: 4-Bromofluorobenzene	91.8	74.9-127		%REC	307780	1	12/20/2020 23:18	OM
Surr: Dibromofluoromethane	97.3	78.9-121		%REC	307780	1	12/20/2020 23:18	OM
Surr: Toluene-d8	94.9	81.5-120		%REC	307780	1	12/20/2020 23:18	OM

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:**	GWC-12
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 2:40:00 PM
Lab ID:	2012J67-016	**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	307780	1	12/20/2020 23:43	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/20/2020 23:43	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/20/2020 23:43	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
2-Butanone	BRL	100		ug/L	307780	1	12/20/2020 23:43	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/20/2020 23:43	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/20/2020 23:43	OM
Acetone	BRL	100		ug/L	307780	1	12/20/2020 23:43	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/20/2020 23:43	OM
Benzene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Bromoform	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Bromomethane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/20/2020 23:43	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Chloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Iodomethane	BRL	100		ug/L	307780	1	12/20/2020 23:43	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/20/2020 23:43	OM
Styrene	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Toluene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/20/2020 23:43	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/20/2020 23:43	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/20/2020 23:43	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/20/2020 23:43	OM

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-12
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 2:40:00 PM
Lab ID:	2012J67-016	**Matrix:**	Groundwater

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	307780	1	12/20/2020 23:43	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/20/2020 23:43	OM
Surr: 4-Bromofluorobenzene	93.5	74.9-127		%REC	307780	1	12/20/2020 23:43	OM
Surr: Dibromofluoromethane	95.7	78.9-121		%REC	307780	1	12/20/2020 23:43	OM
Surr: Toluene-d8	96.6	81.5-120		%REC	307780	1	12/20/2020 23:43	OM

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:**	GWC-12A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:00:00 PM
Lab ID:	2012J67-017	**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	307780	1	12/21/2020 00:08	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307780	1	12/21/2020 00:08	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307780	1	12/21/2020 00:08	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
2-Butanone	BRL	100		ug/L	307780	1	12/21/2020 00:08	OM
2-Hexanone	BRL	50		ug/L	307780	1	12/21/2020 00:08	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307780	1	12/21/2020 00:08	OM
Acetone	BRL	100		ug/L	307780	1	12/21/2020 00:08	OM
Acrylonitrile	BRL	50		ug/L	307780	1	12/21/2020 00:08	OM
Benzene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Bromochloromethane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Bromodichloromethane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Bromoform	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Bromomethane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Carbon disulfide	BRL	5.0		ug/L	307780	1	12/21/2020 00:08	OM
Carbon tetrachloride	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Chlorobenzene	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Chloroethane	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Chloroform	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Chloromethane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Dibromochloromethane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Dibromomethane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Ethylbenzene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Iodomethane	BRL	100		ug/L	307780	1	12/21/2020 00:08	OM
Methylene chloride	BRL	5.0		ug/L	307780	1	12/21/2020 00:08	OM
Styrene	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Tetrachloroethene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Toluene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307780	1	12/21/2020 00:08	OM
Trichloroethene	BRL	2.0		ug/L	307780	1	12/21/2020 00:08	OM
Trichlorofluoromethane	BRL	10		ug/L	307780	1	12/21/2020 00:08	OM
Vinyl acetate	BRL	100		ug/L	307780	1	12/21/2020 00:08	OM

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-12A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:00:00 PM
Lab ID:	2012J67-017	**Matrix:**	Groundwater

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	307780	1	12/21/2020 00:08	OM
Xylenes, Total	BRL	5.0		ug/L	307780	1	12/21/2020 00:08	OM
Surr: 4-Bromofluorobenzene	92.6	74.9-127		%REC	307780	1	12/21/2020 00:08	OM
Surr: Dibromofluoromethane	98.1	78.9-121		%REC	307780	1	12/21/2020 00:08	OM
Surr: Toluene-d8	96.2	81.5-120		%REC	307780	1	12/21/2020 00:08	OM

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:**	GWC-19R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:30:00 PM
Lab ID:	2012J67-018	**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	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	3.4	0.50		mg/L	R442767	1	12/17/2020 03:45	IP
Nitrate	BRL	0.25		mg/L	R442767	1	12/17/2020 03:45	IP
Sulfate	2.0	1.0		mg/L	R442767	1	12/17/2020 03:45	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 07:00	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 07:00	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 07:00	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 07:00	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 07:00	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 07:00	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 07:00	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 07:00	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
cis-1,2-Dichloroethene	7.9	2.0		ug/L	307781	1	12/21/2020 07:00	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 07:00	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 07:00	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM

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:**	GWC-19R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 3:30:00 PM
Lab ID:	2012J67-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 07:00	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 07:00	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 07:00	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 07:00	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 07:00	OM
Surr: 4-Bromofluorobenzene	91	74.9-127		%REC	307781	1	12/21/2020 07:00	OM
Surr: Dibromofluoromethane	95	78.9-121		%REC	307781	1	12/21/2020 07:00	OM
Surr: Toluene-d8	95.9	81.5-120		%REC	307781	1	12/21/2020 07:00	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	38.5	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	12/15/2020
Lab ID:	2012J67-019	**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	307781	1	12/21/2020 06:36	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 06:36	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 06:36	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 06:36	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 06:36	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 06:36	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 06:36	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 06:36	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 06:36	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 06:36	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 06:36	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 06:36	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 06:36	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 06:36	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 06:36	OM

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020
Lab ID:	2012J67-019	**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	307781	1	12/21/2020 06:36	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 06:36	OM
Surr: 4-Bromofluorobenzene	89.8	74.9-127		%REC	307781	1	12/21/2020 06:36	OM
Surr: Dibromofluoromethane	95.2	78.9-121		%REC	307781	1	12/21/2020 06:36	OM
Surr: Toluene-d8	95.3	81.5-120		%REC	307781	1	12/21/2020 06:36	OM

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:**	PH1-GWA-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 12:25:00 PM
Lab ID:	2012J67-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	44	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	2.4	0.50		mg/L	R442760	1	12/17/2020 01:56	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/17/2020 01:56	IP
Sulfate	1.0	1.0		mg/L	R442760	1	12/17/2020 01:56	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 07:24	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 07:24	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 07:24	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 07:24	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 07:24	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 07:24	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 07:24	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 07:24	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
cis-1,2-Dichloroethene	4.3	2.0		ug/L	307781	1	12/21/2020 07:24	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 07:24	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 07:24	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM

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:**	PH1-GWA-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 12:25:00 PM
Lab ID:	2012J67-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 07:24	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 07:24	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 07:24	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 07:24	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 07:24	OM
Surr: 4-Bromofluorobenzene	91.3	74.9-127		%REC	307781	1	12/21/2020 07:24	OM
Surr: Dibromofluoromethane	97.6	78.9-121		%REC	307781	1	12/21/2020 07:24	OM
Surr: Toluene-d8	95.3	81.5-120		%REC	307781	1	12/21/2020 07:24	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	33.1	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	PH1-GWA-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:00:00 PM
Lab ID:	2012J67-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	68	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	3.7	0.50		mg/L	R442767	1	12/17/2020 02:51	IP
Nitrate	BRL	0.25		mg/L	R442767	1	12/17/2020 02:51	IP
Sulfate	BRL	1.0		mg/L	R442767	1	12/17/2020 02:51	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 07:48	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 07:48	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 07:48	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 07:48	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 07:48	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 07:48	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 07:48	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 07:48	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
cis-1,2-Dichloroethene	52	2.0		ug/L	307781	1	12/21/2020 07:48	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 07:48	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 07:48	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM

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:**	PH1-GWA-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 1:00:00 PM
Lab ID:	2012J67-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 07:48	OM
Trichloroethene	2.5	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 07:48	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 07:48	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 07:48	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 07:48	OM
Surr: 4-Bromofluorobenzene	91.3	74.9-127		%REC	307781	1	12/21/2020 07:48	OM
Surr: Dibromofluoromethane	95.7	78.9-121		%REC	307781	1	12/21/2020 07:48	OM
Surr: Toluene-d8	94.9	81.5-120		%REC	307781	1	12/21/2020 07:48	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	34.3	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	PH1-GWA-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 11:50:00 AM
Lab ID:	2012J67-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	14	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	2.1	0.50		mg/L	R442760	1	12/17/2020 01:34	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/17/2020 01:34	IP
Sulfate	1.1	1.0		mg/L	R442760	1	12/17/2020 01:34	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 08:12	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 08:12	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 08:12	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 08:12	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 08:12	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 08:12	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 08:12	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 08:12	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 08:12	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 08:12	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM

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:**	PH1-GWA-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 11:50:00 AM
Lab ID:	2012J67-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 08:12	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 08:12	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 08:12	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 08:12	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 08:12	OM
Surr: 4-Bromofluorobenzene	92	74.9-127		%REC	307781	1	12/21/2020 08:12	OM
Surr: Dibromofluoromethane	99	78.9-121		%REC	307781	1	12/21/2020 08:12	OM
Surr: Toluene-d8	96.9	81.5-120		%REC	307781	1	12/21/2020 08:12	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	5.74	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	PH1-GWC-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 11:15:00 AM
Lab ID:	2012J67-023	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	86	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	5.0	0.50		mg/L	R442760	1	12/16/2020 23:36	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/16/2020 23:36	IP
Sulfate	2.9	1.0		mg/L	R442760	1	12/16/2020 23:36	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,1-Dichloroethane	3.6	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 08:36	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 08:36	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 08:36	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 08:36	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 08:36	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 08:36	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 08:36	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 08:36	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
cis-1,2-Dichloroethene	26	2.0		ug/L	307781	1	12/21/2020 08:36	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 08:36	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 08:36	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM

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:**	PH1-GWC-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 11:15:00 AM
Lab ID:	2012J67-023	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	9.1	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 08:36	OM
Trichloroethene	7.6	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 08:36	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 08:36	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 08:36	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 08:36	OM
Surr: 4-Bromofluorobenzene	92.1	74.9-127		%REC	307781	1	12/21/2020 08:36	OM
Surr: Dibromofluoromethane	94.4	78.9-121		%REC	307781	1	12/21/2020 08:36	OM
Surr: Toluene-d8	96.4	81.5-120		%REC	307781	1	12/21/2020 08:36	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	59.7	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	PH1-GWC-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 10:50:00 AM
Lab ID:	2012J67-024	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	104	10		mg/L	307564	1	12/17/2020 14:50	NN
ION SCAN SW9056A								
Chloride	2.1	0.50		mg/L	R442760	1	12/16/2020 23:25	IP
Nitrate	BRL	0.25		mg/L	R442760	1	12/16/2020 23:25	IP
Sulfate	1.6	1.0		mg/L	R442760	1	12/16/2020 23:25	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,1-Dichloroethane	3.0	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 09:01	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 09:01	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 09:01	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 09:01	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 09:01	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 09:01	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 09:01	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 09:01	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
cis-1,2-Dichloroethene	16	2.0		ug/L	307781	1	12/21/2020 09:01	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 09:01	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 09:01	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM

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:**	PH1-GWC-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/15/2020 10:50:00 AM
Lab ID:	2012J67-024	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	5.7	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 09:01	OM
Trichloroethene	8.1	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 09:01	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 09:01	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 09:01	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 09:01	OM
Surr: 4-Bromofluorobenzene	92.1	74.9-127		%REC	307781	1	12/21/2020 09:01	OM
Surr: Dibromofluoromethane	95.9	78.9-121		%REC	307781	1	12/21/2020 09:01	OM
Surr: Toluene-d8	97.5	81.5-120		%REC	307781	1	12/21/2020 09:01	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	81.5	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.** AES Work Order Number: **2012J67**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ■ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 0.1 °C Cooler 2 Temperature 1.2 °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). ARS 12/16/20

		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 ☐ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MJ 12/16/20

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

		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?	○	○	●		

* 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. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). MJ 12/16/20

Locked

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012J67

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012J67-001A	GWC-8A	12/15/2020 12:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-001B	GWC-8A	12/15/2020 12:55:00PM	Groundwater	ION SCAN			12/17/2020
2012J67-001B	GWC-8A	12/15/2020 12:55:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-001B	GWC-8A	12/15/2020 12:55:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-002A	GWC-8R	12/15/2020 12:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-002B	GWC-8R	12/15/2020 12:15:00PM	Groundwater	ION SCAN			12/17/2020
2012J67-002B	GWC-8R	12/15/2020 12:15:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-002B	GWC-8R	12/15/2020 12:15:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-003A	GWC-13	12/15/2020 3:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-004A	GWC-14A	12/15/2020 11:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-004B	GWC-14A	12/15/2020 11:15:00AM	Groundwater	ION SCAN			12/17/2020
2012J67-004B	GWC-14A	12/15/2020 11:15:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-004B	GWC-14A	12/15/2020 11:15:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-005A	GWC-17	12/15/2020 1:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-005B	GWC-17	12/15/2020 1:30:00PM	Groundwater	ION SCAN			12/17/2020
2012J67-005B	GWC-17	12/15/2020 1:30:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-005B	GWC-17	12/15/2020 1:30:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-006A	GWC-18	12/15/2020 10:10:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-006B	GWC-18	12/15/2020 10:10:00AM	Groundwater	ION SCAN			12/16/2020
2012J67-006B	GWC-18	12/15/2020 10:10:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-006B	GWC-18	12/15/2020 10:10:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-007A	GWC-24	12/15/2020 2:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-007B	GWC-24	12/15/2020 2:50:00PM	Groundwater	ION SCAN			12/17/2020
2012J67-007B	GWC-24	12/15/2020 2:50:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-007B	GWC-24	12/15/2020 2:50:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-008A	AMW-4	12/15/2020 9:00:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-008B	AMW-4	12/15/2020 9:00:00AM	Groundwater	ION SCAN			12/16/2020
2012J67-008B	AMW-4	12/15/2020 9:00:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-008B	AMW-4	12/15/2020 9:00:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012J67

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012J67-009A	AMW-5	12/15/2020 9:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-009B	AMW-5	12/15/2020 9:20:00AM	Groundwater	ION SCAN			12/16/2020
2012J67-009B	AMW-5	12/15/2020 9:20:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-009B	AMW-5	12/15/2020 9:20:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-010A	AMW-13	12/15/2020 3:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-011A	AMW-14	12/15/2020 9:45:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-011B	AMW-14	12/15/2020 9:45:00AM	Groundwater	ION SCAN			12/16/2020
2012J67-011B	AMW-14	12/15/2020 9:45:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-011B	AMW-14	12/15/2020 9:45:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-012A	FIELD BLANK 1	12/15/2020 3:15:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-012B	FIELD BLANK 1	12/15/2020 3:15:00PM	Aqueous	APPENDIX I METALS		12/18/2020 1:34:00PM	12/22/2020
2012J67-013A	GWC-10	12/15/2020 1:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-014A	GWC-10A	12/15/2020 1:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-015A	GWC-11	12/15/2020 2:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-016A	GWC-12	12/15/2020 2:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/20/2020
2012J67-017A	GWC-12A	12/15/2020 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/20/2020 4:37:00PM	12/21/2020
2012J67-018A	GWC-19R	12/15/2020 3:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J67-018B	GWC-19R	12/15/2020 3:30:00PM	Groundwater	ION SCAN			12/17/2020
2012J67-018B	GWC-19R	12/15/2020 3:30:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-018B	GWC-19R	12/15/2020 3:30:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-019A	TRIP BLANK	12/15/2020 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J67-020A	PH1-GWA-1	12/15/2020 12:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J67-020B	PH1-GWA-1	12/15/2020 12:25:00PM	Groundwater	ION SCAN			12/17/2020
2012J67-020B	PH1-GWA-1	12/15/2020 12:25:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-020B	PH1-GWA-1	12/15/2020 12:25:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-021A	PH1-GWA-2	12/15/2020 1:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J67-021B	PH1-GWA-2	12/15/2020 1:00:00PM	Groundwater	ION SCAN			12/17/2020
2012J67-021B	PH1-GWA-2	12/15/2020 1:00:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-021B	PH1-GWA-2	12/15/2020 1:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012J67

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012J67-022A	PH1-GWA-4	12/15/2020 11:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J67-022B	PH1-GWA-4	12/15/2020 11:50:00AM	Groundwater	ION SCAN			12/17/2020
2012J67-022B	PH1-GWA-4	12/15/2020 11:50:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-022B	PH1-GWA-4	12/15/2020 11:50:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-023A	PH1-GWC-3	12/15/2020 11:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J67-023B	PH1-GWC-3	12/15/2020 11:15:00AM	Groundwater	ION SCAN			12/16/2020
2012J67-023B	PH1-GWC-3	12/15/2020 11:15:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-023B	PH1-GWC-3	12/15/2020 11:15:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020
2012J67-024A	PH1-GWC-3A	12/15/2020 10:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J67-024B	PH1-GWC-3A	12/15/2020 10:50:00AM	Groundwater	ION SCAN			12/16/2020
2012J67-024B	PH1-GWC-3A	12/15/2020 10:50:00AM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012J67-024B	PH1-GWC-3A	12/15/2020 10:50:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2020 10:00:00AM	12/17/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307564

Sample ID: **MB-307564**	Client ID:	Units: **mg/L**	Prep Date: **12/17/2020**	Run No: **442313**
SampleType: **MBLK**	TestCode: **Residue, Dissolved (TDS) by SM2540C**	BatchID: **307564**	Analysis Date: **12/17/2020**	Seq No: **10086264**

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: **2012J67-001BDUP**	Client ID: **GWC-8A**	Units: **mg/L**	Prep Date: **12/17/2020**	Run No: **442313**
SampleType: **DUP**	TestCode: **Residue, Dissolved (TDS) by SM2540C**	BatchID: **307564**	Analysis Date: **12/17/2020**	Seq No: **10086266**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	125.0	10						129.0	3.15	10	

Sample ID: **2012J67-020BDUP**	Client ID: **PH1-GWA-1**	Units: **mg/L**	Prep Date: **12/17/2020**	Run No: **442313**
SampleType: **DUP**	TestCode: **Residue, Dissolved (TDS) by SM2540C**	BatchID: **307564**	Analysis Date: **12/17/2020**	Seq No: **10086277**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	46.00	10						44.00	4.44	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: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307614

Sample ID: **MB-307614** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442830**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307614** Analysis Date: **12/22/2020** Seq No: **10092728**

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	0.0300									
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-307614** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442830**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307614** Analysis Date: **12/22/2020** Seq No: **10092729**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09085	0.00600	0.1000		90.9	80	120				
Arsenic	0.09350	0.0100	0.1000		93.5	80	120				
Barium	0.09325	0.0200	0.1000		93.2	80	120				
Beryllium	0.09305	0.00400	0.1000		93.0	80	120				
Cadmium	0.08954	0.00500	0.1000		89.5	80	120				
Chromium	0.08991	0.0200	0.1000		89.9	80	120				
Cobalt	0.09234	0.0500	0.1000		92.3	80	120				
Copper	0.09295	0.0200	0.1000		93.0	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307614

Sample ID: **LCS-307614** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442830**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307614** Analysis Date: **12/22/2020** Seq No: **10092729**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.08702	0.0100	0.1000		87.0	80	120				
Nickel	0.09112	0.0400	0.1000		91.1	80	120				
Selenium	0.09147	0.0500	0.1000		91.5	80	120				
Silver	0.009043	0.00500	0.0100		90.4	80	120				
Thallium	0.08611	0.00200	0.1000		86.1	80	120				
Vanadium	0.09166	0.0500	0.1000		91.7	80	120				
Zinc	0.09107	0.0200	0.1000		91.1	80	120				

Sample ID: **2012H75-021BMS** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442830**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307614** Analysis Date: **12/22/2020** Seq No: **10092731**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.07844	0.00600	0.1000		78.4	75	125				
Arsenic	0.07701	0.0100	0.1000		77.0	75	125				
Barium	0.1803	0.0200	0.1000	0.1016	78.7	75	125				
Beryllium	0.07389	0.00400	0.1000	0.0002809	73.6	75	125				S
Cadmium	0.07656	0.00500	0.1000	0.0007605	75.8	75	125				
Chromium	0.07846	0.0200	0.1000		78.5	75	125				
Cobalt	0.07857	0.0500	0.1000		78.6	75	125				
Copper	0.07840	0.0200	0.1000		78.4	75	125				
Lead	0.07524	0.0100	0.1000	0.001865	73.4	75	125				S
Nickel	0.07651	0.0400	0.1000	0.0006166	75.9	75	125				
Selenium	0.07791	0.0500	0.1000		77.9	75	125				
Silver	0.007793	0.00500	0.0100		77.9	75	125				
Thallium	0.07450	0.00200	0.1000		74.5	75	125				S
Vanadium	0.07751	0.0500	0.1000		77.5	75	125				
Zinc	0.08518	0.0200	0.1000	0.008030	77.2	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307614

Sample ID: **2012H75-021BMSD** Client ID:
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B**
Units: **mg/L** Prep Date: **12/18/2020** Run No: **442830**
BatchID: **307614** Analysis Date: **12/22/2020** Seq No: **10092732**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1073	0.00600	0.1000		107	75	125	0.07844	0	20	
Arsenic	0.1086	0.0100	0.1000		109	75	125	0.07701	0	20	
Barium	0.2119	0.0200	0.1000	0.1016	110	75	125	0.1803	0	20	
Beryllium	0.1013	0.00400	0.1000	0.0002809	101	75	125	0.07389	0	20	
Cadmium	0.1034	0.00500	0.1000	0.0007605	103	75	125	0.07656	0	20	
Chromium	0.1051	0.0200	0.1000		105	75	125	0.07846	0	20	
Cobalt	0.1071	0.0500	0.1000		107	75	125	0.07857	0	20	
Copper	0.1059	0.0200	0.1000		106	75	125	0.07840	0	20	
Lead	0.1025	0.0100	0.1000	0.001865	101	75	125	0.07524	0	20	
Nickel	0.1030	0.0400	0.1000	0.0006166	102	75	125	0.07651	0	20	
Selenium	0.1044	0.0500	0.1000		104	75	125	0.07791	0	20	
Silver	0.01039	0.00500	0.0100		104	75	125	0.007793	0	20	
Thallium	0.1014	0.00200	0.1000		101	75	125	0.07450	0	20	
Vanadium	0.1037	0.0500	0.1000		104	75	125	0.07751	0	20	
Zinc	0.1140	0.0200	0.1000	0.008030	106	75	125	0.08518	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307780

Sample ID: **MB-307780** Client ID: Units: **ug/L** Prep Date: **12/20/2020** Run No: **442585**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307780** Analysis Date: **12/20/2020** Seq No: **10086553**

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: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307780

Sample ID: **MB-307780** Client ID: Units: **ug/L** Prep Date: **12/20/2020** Run No: **442585**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307780** Analysis Date: **12/20/2020** Seq No: **10086553**

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	45.01	0	50.00		90.0	74.9	127				
Surr: Dibromofluoromethane	47.08	0	50.00		94.2	78.9	121				
Surr: Toluene-d8	47.42	0	50.00		94.8	81.5	120				

Sample ID: **LCS-307780** Client ID: Units: **ug/L** Prep Date: **12/20/2020** Run No: **442585**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307780** Analysis Date: **12/20/2020** Seq No: **10086552**

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: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307780

Sample ID: **LCS-307780**	Client ID:		Units: **ug/L**	Prep Date: **12/20/2020**	Run No: **442585**
SampleType: **LCS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307780**	Analysis Date: **12/20/2020**	Seq No: **10086552**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19.97	5.0	20.00		99.8	69.2	141				
Benzene	20.18	5.0	20.00		101	72.3	126				
Chlorobenzene	18.66	5.0	20.00		93.3	73.3	135				
Toluene	19.56	5.0	20.00		97.8	70.5	128				
Trichloroethene	17.82	5.0	20.00		89.1	70.3	133				
Surr: 4-Bromofluorobenzene	46.16	0	50.00		92.3	74.9	127				
Surr: Dibromofluoromethane	47.10	0	50.00		94.2	78.9	121				
Surr: Toluene-d8	47.73	0	50.00		95.5	81.5	120				

Sample ID: **2012J67-003AMS**	Client ID: **GWC-13**		Units: **ug/L**	Prep Date: **12/20/2020**	Run No: **442585**
SampleType: **MS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307780**	Analysis Date: **12/23/2020**	Seq No: **10094359**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	21.52	5.0	20.00		108	63.8	146				
Benzene	20.96	5.0	20.00		105	70.2	137				
Chlorobenzene	18.46	5.0	20.00		92.3	72.7	141				
Toluene	20.53	5.0	20.00		103	67	141				
Trichloroethene	18.90	5.0	20.00		94.5	69.3	141				
Surr: 4-Bromofluorobenzene	47.12	0	50.00		94.2	74.9	127				
Surr: Dibromofluoromethane	46.94	0	50.00		93.9	78.9	121				
Surr: Toluene-d8	47.91	0	50.00		95.8	81.5	120				

Sample ID: **2012J67-003AMSD**	Client ID: **GWC-13**		Units: **ug/L**	Prep Date: **12/20/2020**	Run No: **442585**
SampleType: **MSD**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307780**	Analysis Date: **12/23/2020**	Seq No: **10094360**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.34	5.0	20.00		102	63.8	146	21.52	5.64	20.8	
Benzene	20.49	5.0	20.00		102	70.2	137	20.96	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307780

Sample ID: **2012J67-003AMSD** Client ID: **GWC-13** Units: **ug/L** Prep Date: **12/20/2020** Run No: **442585**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307780** Analysis Date: **12/23/2020** Seq No: **10094360**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	18.36	5.0	20.00		91.8	72.7	141	18.46	0.543	20	
Toluene	19.94	5.0	20.00		99.7	67	141	20.53	2.92	20	
Trichloroethene	19.14	5.0	20.00		95.7	69.3	141	18.90	1.26	17.9	
Surr: 4-Bromofluorobenzene	46.78	0	50.00		93.6	74.9	127	47.12	0	0	
Surr: Dibromofluoromethane	46.67	0	50.00		93.3	78.9	121	46.94	0	0	
Surr: Toluene-d8	47.59	0	50.00		95.2	81.5	120	47.91	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **MB-307781** Client ID: Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307781** Analysis Date: **12/21/2020** Seq No: **10086721**

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: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **MB-307781** Client ID: Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307781** Analysis Date: **12/21/2020** Seq No: **10086721**

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	46.30	0	50.00		92.6	74.9	127				
Surr: Dibromofluoromethane	47.98	0	50.00		96.0	78.9	121				
Surr: Toluene-d8	48.05	0	50.00		96.1	81.5	120				

Sample ID: **LCS-307781** Client ID: Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307781** Analysis Date: **12/21/2020** Seq No: **10086720**

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: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **LCS-307781**	Client ID:		Units: **ug/L**	Prep Date: **12/21/2020**	Run No: **442619**
SampleType: **LCS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307781**	Analysis Date: **12/21/2020**	Seq No: **10086720**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.70	5.0	50.00		111	69.2	141				
Benzene	53.32	5.0	50.00		107	72.3	126				
Chlorobenzene	47.23	5.0	50.00		94.5	73.3	135				
Toluene	51.79	5.0	50.00		104	70.5	128				
Trichloroethene	48.55	5.0	50.00		97.1	70.3	133				
Surr: 4-Bromofluorobenzene	46.99	0	50.00		94.0	74.9	127				
Surr: Dibromofluoromethane	48.87	0	50.00		97.7	78.9	121				
Surr: Toluene-d8	48.04	0	50.00		96.1	81.5	120				

Sample ID: **2012J67-021AMS**	Client ID: **PH1-GWA-2**		Units: **ug/L**	Prep Date: **12/21/2020**	Run No: **442619**
SampleType: **MS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307781**	Analysis Date: **12/22/2020**	Seq No: **10091193**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.77	5.0	50.00		112	63.8	146				
Benzene	55.46	5.0	50.00	0.5200	110	70.2	137				
Chlorobenzene	48.55	5.0	50.00		97.1	72.7	141				
Toluene	52.63	5.0	50.00		105	67	141				
Trichloroethene	53.06	5.0	50.00	2.500	101	69.3	141				
Surr: 4-Bromofluorobenzene	46.04	0	50.00		92.1	74.9	127				
Surr: Dibromofluoromethane	47.58	0	50.00		95.2	78.9	121				
Surr: Toluene-d8	48.30	0	50.00		96.6	81.5	120				

Sample ID: **2012J67-021AMSD**	Client ID: **PH1-GWA-2**		Units: **ug/L**	Prep Date: **12/21/2020**	Run No: **442619**
SampleType: **MSD**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307781**	Analysis Date: **12/22/2020**	Seq No: **10091194**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.43	5.0	50.00		105	63.8	146	55.77	6.17	20.8	
Benzene	52.84	5.0	50.00	0.5200	105	70.2	137	55.46	4.84	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **2012J67-021AMSD** Client ID: **PH1-GWA-2** Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307781** Analysis Date: **12/22/2020** Seq No: **10091194**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	46.36	5.0	50.00		92.7	72.7	141	48.55	4.61	20	
Toluene	48.98	5.0	50.00		98.0	67	141	52.63	7.18	20	
Trichloroethene	50.70	5.0	50.00	2.500	96.4	69.3	141	53.06	4.55	17.9	
Surr: 4-Bromofluorobenzene	46.42	0	50.00		92.8	74.9	127	46.04	0	0	
Surr: Dibromofluoromethane	47.63	0	50.00		95.3	78.9	121	47.58	0	0	
Surr: Toluene-d8	47.64	0	50.00		95.3	81.5	120	48.30	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: R442641

Sample ID: **LCS-R442641**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **442641**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R442641**		Analysis Date: **12/21/2020**		Seq No: **10087074**	
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)	126.8	3.00	125.0		101	90	110				

Sample ID: **2012N58-005BDUP**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **442641**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R442641**		Analysis Date: **12/21/2020**		Seq No: **10087076**	
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)	141.7	3.00						142.7	0.717	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: R442760

Sample ID: **MB-R442760** Client ID: Units: **mg/L** Prep Date: Run No: **442760**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R442760** Analysis Date: **12/16/2020** Seq No: **10090792**

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-R442760** Client ID: Units: **mg/L** Prep Date: Run No: **442760**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R442760** Analysis Date: **12/16/2020** Seq No: **10090791**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.50	1.0	10.00		105	90	110				
Nitrate	5.180	0.25	5.000		104	90	110				
Sulfate	26.49	1.0	25.00		106	90	110				

Sample ID: **2012J67-006BMS** Client ID: **GWC-18** Units: **mg/L** Prep Date: Run No: **442760**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R442760** Analysis Date: **12/17/2020** Seq No: **10090822**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	13.97	1.0	10.00	4.538	94.3	90	110				
Nitrate	6.603	0.25	5.000	1.019	112	90	110				S
Sulfate	27.08	1.0	25.00	1.022	104	90	110				

Sample ID: **2012J67-011BMS** Client ID: **AMW-14** Units: **mg/L** Prep Date: Run No: **442760**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R442760** Analysis Date: **12/17/2020** Seq No: **10090820**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	13.22	1.0	10.00	3.810	94.1	90	110				
Nitrate	5.606	0.25	5.000	0.2119	108	90	110				
Sulfate	29.03	1.0	25.00	2.784	105	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: R442760

Sample ID: **2012J67-011BMSD** Client ID: **AMW-14** Units: **mg/L** Prep Date: Run No: **442760**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R442760** Analysis Date: **12/17/2020** Seq No: **10090821**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	13.24	1.0	10.00	3.810	94.3	90	110	13.22	0.174	20	
Nitrate	5.662	0.25	5.000	0.2119	109	90	110	5.606	0.991	20	
Sulfate	28.79	1.0	25.00	2.784	104	90	110	29.03	0.813	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: R442767

Sample ID: **MB-R442767** Client ID: Units: **mg/L** Prep Date: Run No: **442767**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R442767** Analysis Date: **12/17/2020** Seq No: **10091019**

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-R442767** Client ID: Units: **mg/L** Prep Date: Run No: **442767**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R442767** Analysis Date: **12/17/2020** Seq No: **10091018**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.53	1.0	10.00		105	90	110				
Nitrate	5.218	0.25	5.000		104	90	110				
Sulfate	26.15	1.0	25.00		105	90	110				

Sample ID: **2012J67-018BMS** Client ID: **GWC-19R** Units: **mg/L** Prep Date: Run No: **442767**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R442767** Analysis Date: **12/17/2020** Seq No: **10091027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.57	1.0	10.00	3.369	82.0	90	110				S
Nitrate	5.605	0.25	5.000		112	90	110				S
Sulfate	28.28	1.0	25.00	2.032	105	90	110				

Sample ID: **2012L01-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **442767**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R442767** Analysis Date: **12/17/2020** Seq No: **10091044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.19	1.0	10.00	2.888	83.0	90	110				S
Nitrate	5.867	0.25	5.000	0.7614	102	90	110				
Sulfate	26.22	1.0	25.00	1.401	99.3	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 County- Hightower Road Landfill
Workorder: 2012J67

ANALYTICAL QC SUMMARY REPORT

BatchID: R442767

Sample ID: **2012J67-018BMSD** Client ID: **GWC-19R** Units: **mg/L** Prep Date: Run No: **442767**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R442767** Analysis Date: **12/17/2020** Seq No: **10091028**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.58	1.0	10.00	3.369	82.1	90	110	11.57	0.045	20	S
Nitrate	5.595	0.25	5.000		112	90	110	5.605	0.175	20	S
Sulfate	28.03	1.0	25.00	2.032	104	90	110	28.28	0.867	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		

End of Report

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 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: 2012N58

Analytical Environmental Services, Inc. received 56 samples on 12/18/2020 4:10:00 PM
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/20-06/30/21.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/21 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-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

Jessica Shilling

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2012N62

Date: _____ Page _____ of _____

COMPANY:	ADDRESS:
Atlantic Coast Consulting, INC	1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076
PHONE: 770-594-5998	FAX:
SAMPLED BY: HA / TJ	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity										No # of Containers
	PRESERVATION (See codes)																		
1	AMW-12R	12-16-20	1055	✓		GW	✓												2
2	AMW-12	12-16	1130	✓		GW	✓												2
3	GWC-23	12-16	1200	✓		GW	✓												2
4	GWC-23A	12-16	1240	✓		GW	✓												2
5	BMcD ~~AMW-14R~~ GWC-14R	12-17	1605	✓		GW	✓		✓										3
6	GWC-14	12-17	0935	✓		GW	✓												2
7	GWC-22	12-17	0915	✓		GW	✓												2
8	GWC-23	12-17	0840	✓		GW		✓											1
9	GWC-23A	12-17	0845	✓		GW		✓											1
10	AMW-13	12-16	0955	✓		GW		✓											1
11	PHI-GWB-1	12-17	1335	✓		GW	✓												2
12	PHI-GWB-2	12-17	1305	✓		GW	✓												2
13	BMcD ~~PHI-GWB-3~~ PHI-GWC-1	12-17	1515	✓		GW	✓												2
14	PHI-GWC-4	12-17	1210	✓		GW	✓												2

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

REMARKS

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Taylor Jolly	12-18/0955	1:	12-18-20 9:55
2:	12-18-20 1:10	2:	12-18-20 4:10 PM
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Charles Adams

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time Request

- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: [ ] I [ ] II [ ] III [ ] IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

[ ] CLIENT [ ] FedEx [ ] UPS [ ] MAIL [✓] COURIER

[ ] GREYHOUND [ ] OTHER_____

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water 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

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2012N58

Date: _____ Page _____ of _____

COMPANY:	ADDRESS:
Atlantic Coast Consulting, INC	1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076
PHONE: 770-594-5998	FAX:
SAMPLED BY: HA/TJ	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity										No # of Containers
							PRESERVATION (See codes)												
1	GWC-8A	12-16-20	0900	✓		GW		✓											1
2	PHI-GWC-3A	12-16	0920	✓		GW		✓											1
3	PHI-GWC-3	12-16	0925	✓		GW		✓											1
4	PHI-GWA-4	12-16	0945	✓		GW		✓											1
5	PHI-GWA-2	12-16	0935	✓		GW		✓											1
6	PHI-GWA-1	12-16	0950	✓		GW		✓											1
7	GWC-10	12-16	1010	✓		GW		✓											1
8	GWC-10A	12-16	1005	✓		GW		✓											1
9	GWC-11	12-16	1020	✓		GW		✓											1
10	GWC-12	12-16	1025	✓		GW		✓											1
11	GWC-12A	12-16	1030	✓		GW		✓											1
12	GWC-19R	12-16	1040	✓		GW		✓											1
13	GWC-3A	12-16	1325	✓		GW	✓												2
14	GWC-3A	12-17	0850	✓		GW		✓											1

ANALYSIS REQUESTED

REMARKS

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY:	DATE/TIME	RECEIVED BY	DATE/TIME
1: Taylor Jolly	12-18/0955	1:	12-18-20 0955
2:	12-18-20 4:10	2:	12-18-20 4110 PM
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☑ COURIER

☐ GREYHOUND ☐ OTHER_____

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Charles Adams

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time Request

☑ Standard 5 Business Days

☐ 2 Business Day Rush

☐ Next Business Day Rush

☐ Same Day Rush (auth req.)

☐ Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water 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

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340-3906

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2012N58

Date: ______ Page ______ of ______

COMPANY: Atlantic Coast Consulting, INC

ADDRESS: 1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076

PHONE: 770-594-5998

FAX:

SAMPLED BY: HA/TJ

SIGNATURE: [signature]

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

ANALYSIS REQUESTED / PRESERVATION (See codes)

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity	REMARKS	No # of Containers
1	GWC-3	12-16-20	1240	✓		GW	✓				2
2	GWC-3	12-17	0855	✓		GW		✓			1
3	GWC-2	12-16	1225	✓		GW	✓				2
4	GWC-2	12-17	0905	✓		GW		✓			1
5	GWA-3	12-16	1150	✓		GW	✓				2
6	GWA-3	12-17	0920	✓		GW		✓			1
7	GWC-8	12-16	1125	✓		GW	✓				2
8	GWC-8	12-17	0930	✓		GW		✓			1
9	GWC-1	12-16	1205	✓		GW	✓				2
10	GWC-1	12-17	0910	✓		GW		✓			1
11	GWA-1A	12-17	1050	✓		GW	✓	✓			3
12	PHI-GWC-2	12-17	1200	✓		GW	✓	✓	✓		4
13	AMW-2	12-17	1320	✓		GW	✓	✓	✓		4
14	AMW-1	12-17	1450	✓		GW	✓	✓	✓		4

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Taylor Goll	12-18/0955	1: [signature]	12-18-20 9:55
2: [signature]	12-18-20 4:10	2: [signature]	12-18-20 4:10 PM
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Charles Adams

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: ______ PO#: ______

RECEIPT

Total # of Containers

Turnaround Time Request
- ☑ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☐ Next Business Day Rush
- ☐ Same Day Rush (auth req.)
- ☐ Other ______

STATE PROGRAM (if any): ______

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☑ COURIER

☐ GREYHOUND ☐ OTHER ______

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water 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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 201258
Page ___ of ___

COMPANY: Atlantic Coast Consulting, Inc.	ADDRESS: 1150 Northmeadow Pkwy. Roswell, GA 30076 Suite 100
PHONE: 770-594-5998	EMAIL: charles.adams@atlcnet
SAMPLED BY: H. Auld / T. Johnson	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: App I VOC	App I Metals	PRESERVATION (see codes)	REMARKS	Number of Containers
1	AMW-9	12-17-20	1240	✓		GW	✓				2
2	GWA-2	12-17-20	1450	✓		GW	✓				2
3	GWC-4A	12-17	1605	✓		GW	✓				2
4	GWC-4	12-17	~~1700~~ 1600	✓		GW	✓			Time: 1400 HA	2
5	GWC-5	12-17	1115	✓		GW	✓				2
6	GWC-6	12-17	1100	✓		GW	✓				2
7	GWC-7	12-17	1025	✓		GW	✓				2
8	GWC-9	12-17	1000	✓		GW	✓				2
9	Trip Blank	—	—	✓		W	✓				2
10	Field Blank 2	12-16-20	1235	✓		W	✓	✓			3
11											
12											
13											
14											

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Taylor Jolly	12-18/0955	1.	12-18-20 9:55
2.	12-18-20 16:10	2.	12-18-20 4:10 PM
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Forsyth County - Hightower Rd. LF
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Charles Adams
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other _____

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

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.

4.30.20_COC

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

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2012N58

Date: _____ Page _____ of _____

COMPANY:	ADDRESS:
Atlantic Coast Consulting, INC	1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076
PHONE: 770-594-5998	FAX:
SAMPLED BY: TJ	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity											REMARKS	No # of Containers
							PRESERVATION (See codes)														
1	GWA-1	12/17/20	1420	✓		GW	✓														2
2	GWC-18	12/16/20	0930	✓		GW		✓													1
3	GWC-14A	12/16	0940	✓		GW		✓													1
4	GWC-13	12/16	0945	✓		GW		✓													1
5	GWC-17	12/16	1005	✓		GW		✓													1
6				✓		GW															
7				✓		GW															
8				✓		GW															
9				✓		GW															
10				✓		GW															
11				✓		GW															
12				✓		GW															
13				✓		GW															
14				✓		GW															

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:		1: COC received via email 12/21/2020 9:09 am	
2:		2: Jami Jay	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER

☐ GREYHOUND ☐ OTHER_____

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Charles Adams

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time Request

- ☑ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☐ Next Business Day Rush
- ☐ Same Day Rush (auth req.)
- ☐ Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water 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

Client: Atlantic Coast Consulting, Inc.
Project: Forsyth County- Hightower Road Landfill
Lab ID: 2012N58

Case Narrative

Sample Receiving Nonconformance:

Sample information on the Chain of Custody (COC) did not match that on the sample bottle labels for samples 2012N58-041 and 042. The sample ID listed on the COC for sample 2012N58-041 is AMW-2 but the sample ID was listed on the bottle labels as GWC-16 (A). The sample ID listed on the COC for sample 2012N58-042 is AMW-1 but the sample ID was listed on the bottle labels as GWC-15. Samples were logged in using the information on the COC and were matched based on collection date and time.

Sample GWC-12, was listed on the chain of custody but not present. Per Hunter Auld via email on 12/21/2020, sample will be submitted at a later date.

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-12R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:55:00 AM
Lab ID:	2012N58-001	**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	307913	1	12/22/2020 22:53	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
1,1-Dichloroethane	3.4	2.0		ug/L	307913	1	12/22/2020 22:53	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/22/2020 22:53	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/22/2020 22:53	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
2-Butanone	BRL	100		ug/L	307913	1	12/22/2020 22:53	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/22/2020 22:53	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/22/2020 22:53	CM
Acetone	BRL	100		ug/L	307913	1	12/22/2020 22:53	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/22/2020 22:53	CM
Benzene	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Bromoform	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Bromomethane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/22/2020 22:53	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Chloromethane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
cis-1,2-Dichloroethene	2.8	2.0		ug/L	307913	1	12/22/2020 22:53	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Iodomethane	BRL	100		ug/L	307913	1	12/22/2020 22:53	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/22/2020 22:53	CM
Styrene	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Tetrachloroethene	13	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Toluene	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/22/2020 22:53	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/22/2020 22:53	CM
Trichloroethene	2.8	2.0		ug/L	307913	1	12/22/2020 22:53	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/22/2020 22:53	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/22/2020 22:53	CM

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:**	AMW-12R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:55:00 AM
Lab ID:	2012N58-001	**Matrix:**	Groundwater

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	307913	1	12/22/2020 22:53	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/22/2020 22:53	CM
Surr: 4-Bromofluorobenzene	92.1	74.9-127		%REC	307913	1	12/22/2020 22:53	CM
Surr: Dibromofluoromethane	91	78.9-121		%REC	307913	1	12/22/2020 22:53	CM
Surr: Toluene-d8	95.3	81.5-120		%REC	307913	1	12/22/2020 22:53	CM

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:**	AMW-12
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 11:30:00 AM
Lab ID:	2012N58-002	**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	307913	1	12/22/2020 23:18	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/22/2020 23:18	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/22/2020 23:18	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
2-Butanone	BRL	100		ug/L	307913	1	12/22/2020 23:18	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/22/2020 23:18	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/22/2020 23:18	CM
Acetone	BRL	100		ug/L	307913	1	12/22/2020 23:18	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/22/2020 23:18	CM
Benzene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Bromoform	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Bromomethane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/22/2020 23:18	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Chloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Iodomethane	BRL	100		ug/L	307913	1	12/22/2020 23:18	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/22/2020 23:18	CM
Styrene	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Tetrachloroethene	3.3	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Toluene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/22/2020 23:18	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:18	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/22/2020 23:18	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/22/2020 23:18	CM

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

Analytical Environmental Services, Inc **Date:** 28-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-12
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 11:30:00 AM
Lab ID:	2012N58-002	**Matrix:**	Groundwater

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	307913	1	12/22/2020 23:18	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/22/2020 23:18	CM
Surr: 4-Bromofluorobenzene	90.8	74.9-127		%REC	307913	1	12/22/2020 23:18	CM
Surr: Dibromofluoromethane	91.1	78.9-121		%REC	307913	1	12/22/2020 23:18	CM
Surr: Toluene-d8	94.9	81.5-120		%REC	307913	1	12/22/2020 23:18	CM

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:**	GWC-23
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:00:00 PM
Lab ID:	2012N58-003	**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	307913	1	12/22/2020 23:43	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/22/2020 23:43	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/22/2020 23:43	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
2-Butanone	BRL	100		ug/L	307913	1	12/22/2020 23:43	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/22/2020 23:43	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/22/2020 23:43	CM
Acetone	BRL	100		ug/L	307913	1	12/22/2020 23:43	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/22/2020 23:43	CM
Benzene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Bromoform	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Bromomethane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/22/2020 23:43	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Chloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Iodomethane	BRL	100		ug/L	307913	1	12/22/2020 23:43	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/22/2020 23:43	CM
Styrene	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Toluene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/22/2020 23:43	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/22/2020 23:43	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/22/2020 23:43	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/22/2020 23:43	CM

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:**	GWC-23
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:00:00 PM
Lab ID:	2012N58-003	**Matrix:**	Groundwater

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	307913	1	12/22/2020 23:43	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/22/2020 23:43	CM
Surr: 4-Bromofluorobenzene	91	74.9-127		%REC	307913	1	12/22/2020 23:43	CM
Surr: Dibromofluoromethane	93.7	78.9-121		%REC	307913	1	12/22/2020 23:43	CM
Surr: Toluene-d8	95.2	81.5-120		%REC	307913	1	12/22/2020 23:43	CM

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:**	GWC-23A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:40:00 PM
Lab ID:	2012N58-004	**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	307913	1	12/23/2020 00:08	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 00:08	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 00:08	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 00:08	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 00:08	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 00:08	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 00:08	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 00:08	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 00:08	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 00:08	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 00:08	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 00:08	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:08	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 00:08	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 00:08	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-23A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:40:00 PM
Lab ID:	2012N58-004	**Matrix:**	Groundwater

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	307913	1	12/23/2020 00:08	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 00:08	CM
Surr: 4-Bromofluorobenzene	90.5	74.9-127		%REC	307913	1	12/23/2020 00:08	CM
Surr: Dibromofluoromethane	91.2	78.9-121		%REC	307913	1	12/23/2020 00:08	CM
Surr: Toluene-d8	95.1	81.5-120		%REC	307913	1	12/23/2020 00:08	CM

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:**	GWC-14R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 4:05:00 PM
Lab ID:	2012N58-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	166	10		mg/L	307604	1	12/21/2020 15:15	NN
ION SCAN SW9056A								
Chloride	5.4	0.50		mg/L	R443010	1	12/18/2020 21:18	IP
Nitrate	BRL	0.25		mg/L	R443010	1	12/18/2020 21:18	IP
Sulfate	3.1	1.0		mg/L	R443010	1	12/18/2020 21:18	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,1-Dichloroethane	19	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 00:33	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 00:33	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 00:33	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 00:33	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 00:33	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 00:33	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 00:33	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 00:33	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
cis-1,2-Dichloroethene	28	2.0		ug/L	307913	1	12/23/2020 00:33	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 00:33	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 00:33	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM

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:**	GWC-14R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 4:05:00 PM
Lab ID:	2012N58-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 00:33	CM
Trichloroethene	3.9	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 00:33	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 00:33	CM
Vinyl chloride	BRL	2.0		ug/L	307913	1	12/23/2020 00:33	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 00:33	CM
Surr: 4-Bromofluorobenzene	89.4	74.9-127		%REC	307913	1	12/23/2020 00:33	CM
Surr: Dibromofluoromethane	92.9	78.9-121		%REC	307913	1	12/23/2020 00:33	CM
Surr: Toluene-d8	94.9	81.5-120		%REC	307913	1	12/23/2020 00:33	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	143	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	GWC-14
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:35:00 AM
Lab ID:	2012N58-006	**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	307913	1	12/23/2020 00:58	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 00:58	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 00:58	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 00:58	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 00:58	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 00:58	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 00:58	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 00:58	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 00:58	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 00:58	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 00:58	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 00:58	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 00:58	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 00:58	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 00:58	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-14
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:35:00 AM
Lab ID:	2012N58-006	**Matrix:**	Groundwater

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	307913	1	12/23/2020 00:58	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 00:58	CM
Surr: 4-Bromofluorobenzene	93.2	74.9-127		%REC	307913	1	12/23/2020 00:58	CM
Surr: Dibromofluoromethane	92.2	78.9-121		%REC	307913	1	12/23/2020 00:58	CM
Surr: Toluene-d8	94.2	81.5-120		%REC	307913	1	12/23/2020 00:58	CM

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:**	GWC-22
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:15:00 AM
Lab ID:	2012N58-007	**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	307913	1	12/23/2020 01:23	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 01:23	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 01:23	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 01:23	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 01:23	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 01:23	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 01:23	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 01:23	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 01:23	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 01:23	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 01:23	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 01:23	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:23	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 01:23	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 01:23	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-22
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:15:00 AM
Lab ID:	2012N58-007	**Matrix:**	Groundwater

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	307913	1	12/23/2020 01:23	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 01:23	CM
Surr: 4-Bromofluorobenzene	88.7	74.9-127		%REC	307913	1	12/23/2020 01:23	CM
Surr: Dibromofluoromethane	92.8	78.9-121		%REC	307913	1	12/23/2020 01:23	CM
Surr: Toluene-d8	95.3	81.5-120		%REC	307913	1	12/23/2020 01:23	CM

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:**	GWC-23
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 8:40:00 AM
Lab ID:	2012N58-008	**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	307787	1	12/23/2020 23:09	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/23/2020 23:09	AS
Barium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:09	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/23/2020 23:09	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/23/2020 23:09	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:09	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/23/2020 23:09	AS
Copper	BRL	0.0200		mg/L	307787	1	12/23/2020 23:09	AS
Lead	BRL	0.0150		mg/L	307787	1	12/23/2020 23:09	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/23/2020 23:09	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:09	AS
Silver	BRL	0.0100		mg/L	307787	1	12/23/2020 23:09	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/23/2020 23:09	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:09	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/23/2020 23:09	AS

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:**	GWC-23A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 8:45:00 AM
Lab ID:	2012N58-009	**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	307787	1	12/23/2020 23:41	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/23/2020 23:41	AS
Barium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:41	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/23/2020 23:41	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/23/2020 23:41	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:41	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/23/2020 23:41	AS
Copper	BRL	0.0200		mg/L	307787	1	12/23/2020 23:41	AS
Lead	BRL	0.0150		mg/L	307787	1	12/23/2020 23:41	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/23/2020 23:41	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:41	AS
Silver	BRL	0.0100		mg/L	307787	1	12/23/2020 23:41	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/23/2020 23:41	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:41	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/23/2020 23:41	AS

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:**	AMW-13
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:55:00 AM
Lab ID:	2012N58-010	**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	307787	1	12/23/2020 23:45	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/23/2020 23:45	AS
Barium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:45	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/23/2020 23:45	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/23/2020 23:45	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:45	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/23/2020 23:45	AS
Copper	BRL	0.0200		mg/L	307787	1	12/23/2020 23:45	AS
Lead	BRL	0.0150		mg/L	307787	1	12/23/2020 23:45	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/23/2020 23:45	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:45	AS
Silver	BRL	0.0100		mg/L	307787	1	12/23/2020 23:45	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/23/2020 23:45	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:45	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/23/2020 23:45	AS

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:**	PHI-GWB-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 1:35:00 PM
Lab ID:	2012N58-011	**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	307913	1	12/23/2020 01:47	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 01:47	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 01:47	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 01:47	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 01:47	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 01:47	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 01:47	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 01:47	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 01:47	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 01:47	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 01:47	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 01:47	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 01:47	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 01:47	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 01:47	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PHI-GWB-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 1:35:00 PM
Lab ID:	2012N58-011	**Matrix:**	Groundwater

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	307913	1	12/23/2020 01:47	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 01:47	CM
Surr: 4-Bromofluorobenzene	92.9	74.9-127		%REC	307913	1	12/23/2020 01:47	CM
Surr: Dibromofluoromethane	94.5	78.9-121		%REC	307913	1	12/23/2020 01:47	CM
Surr: Toluene-d8	95.9	81.5-120		%REC	307913	1	12/23/2020 01:47	CM

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:**	PHI-GWB-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 1:05:00 PM
Lab ID:	2012N58-012	**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	307913	1	12/23/2020 02:12	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 02:12	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 02:12	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 02:12	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 02:12	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 02:12	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 02:12	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 02:12	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 02:12	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 02:12	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 02:12	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 02:12	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:12	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 02:12	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 02:12	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PHI-GWB-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 1:05:00 PM
Lab ID:	2012N58-012	**Matrix:**	Groundwater

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	307913	1	12/23/2020 02:12	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 02:12	CM
Surr: 4-Bromofluorobenzene	92.9	74.9-127		%REC	307913	1	12/23/2020 02:12	CM
Surr: Dibromofluoromethane	94.8	78.9-121		%REC	307913	1	12/23/2020 02:12	CM
Surr: Toluene-d8	95	81.5-120		%REC	307913	1	12/23/2020 02:12	CM

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:**	PHI-GWC-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 3:15:00 PM
Lab ID:	2012N58-013	**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	307913	1	12/23/2020 02:36	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 02:36	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 02:36	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 02:36	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 02:36	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 02:36	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 02:36	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 02:36	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 02:36	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 02:36	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 02:36	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 02:36	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 02:36	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 02:36	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 02:36	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PHI-GWC-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 3:15:00 PM
Lab ID:	2012N58-013	**Matrix:**	Groundwater

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	307913	1	12/23/2020 02:36	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 02:36	CM
Surr: 4-Bromofluorobenzene	92.7	74.9-127		%REC	307913	1	12/23/2020 02:36	CM
Surr: Dibromofluoromethane	96.9	78.9-121		%REC	307913	1	12/23/2020 02:36	CM
Surr: Toluene-d8	94.1	81.5-120		%REC	307913	1	12/23/2020 02:36	CM

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:**	PHI-GWC-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:10:00 PM
Lab ID:	2012N58-014	**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	307913	1	12/23/2020 03:01	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 03:01	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 03:01	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 03:01	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 03:01	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 03:01	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 03:01	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 03:01	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 03:01	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 03:01	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 03:01	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 03:01	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:01	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 03:01	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 03:01	CM

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:**	PHI-GWC-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:10:00 PM
Lab ID:	2012N58-014	**Matrix:**	Groundwater

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	307913	1	12/23/2020 03:01	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 03:01	CM
Surr: 4-Bromofluorobenzene	91.6	74.9-127		%REC	307913	1	12/23/2020 03:01	CM
Surr: Dibromofluoromethane	95.4	78.9-121		%REC	307913	1	12/23/2020 03:01	CM
Surr: Toluene-d8	94.5	81.5-120		%REC	307913	1	12/23/2020 03:01	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:00:00 AM
Lab ID:	2012N58-015	**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	307787	1	12/23/2020 23:48	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/23/2020 23:48	AS
Barium	0.0468	0.0200		mg/L	307787	1	12/23/2020 23:48	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/23/2020 23:48	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/23/2020 23:48	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:48	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/23/2020 23:48	AS
Copper	BRL	0.0200		mg/L	307787	1	12/23/2020 23:48	AS
Lead	BRL	0.0150		mg/L	307787	1	12/23/2020 23:48	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/23/2020 23:48	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:48	AS
Silver	BRL	0.0100		mg/L	307787	1	12/23/2020 23:48	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/23/2020 23:48	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:48	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/23/2020 23:48	AS

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:**	PHI-GWC-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:20:00 AM
Lab ID:	2012N58-016	**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	307787	1	12/23/2020 23:52	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/23/2020 23:52	AS
Barium	0.0259	0.0200		mg/L	307787	1	12/23/2020 23:52	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/23/2020 23:52	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/23/2020 23:52	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:52	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/23/2020 23:52	AS
Copper	BRL	0.0200		mg/L	307787	1	12/23/2020 23:52	AS
Lead	BRL	0.0150		mg/L	307787	1	12/23/2020 23:52	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/23/2020 23:52	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:52	AS
Silver	BRL	0.0100		mg/L	307787	1	12/23/2020 23:52	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/23/2020 23:52	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:52	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/23/2020 23:52	AS

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:**	PHI-GWC-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:25:00 AM
Lab ID:	2012N58-017	**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	307787	1	12/23/2020 23:55	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/23/2020 23:55	AS
Barium	0.0256	0.0200		mg/L	307787	1	12/23/2020 23:55	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/23/2020 23:55	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/23/2020 23:55	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:55	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/23/2020 23:55	AS
Copper	BRL	0.0200		mg/L	307787	1	12/23/2020 23:55	AS
Lead	BRL	0.0150		mg/L	307787	1	12/23/2020 23:55	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/23/2020 23:55	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:55	AS
Silver	BRL	0.0100		mg/L	307787	1	12/23/2020 23:55	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/23/2020 23:55	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:55	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/23/2020 23:55	AS

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:**	PHI-GWA-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:45:00 AM
Lab ID:	2012N58-018	**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	307787	1	12/23/2020 23:59	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/23/2020 23:59	AS
Barium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:59	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/23/2020 23:59	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/23/2020 23:59	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:59	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/23/2020 23:59	AS
Copper	BRL	0.0200		mg/L	307787	1	12/23/2020 23:59	AS
Lead	BRL	0.0150		mg/L	307787	1	12/23/2020 23:59	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/23/2020 23:59	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/23/2020 23:59	AS
Silver	BRL	0.0100		mg/L	307787	1	12/23/2020 23:59	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/23/2020 23:59	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/23/2020 23:59	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/23/2020 23:59	AS

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:**	PHI-GWA-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:35:00 AM
Lab ID:	2012N58-019	**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	307787	1	12/24/2020 00:02	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:02	AS
Barium	0.0655	0.0200		mg/L	307787	1	12/24/2020 00:02	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:02	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:02	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:02	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:02	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:02	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:02	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:02	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:02	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:02	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:02	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:02	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:02	AS

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:**	PHI-GWA-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:50:00 AM
Lab ID:	2012N58-020	**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	307787	1	12/24/2020 00:06	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:06	AS
Barium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:06	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:06	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:06	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:06	AS
Cobalt	0.0956	0.0400		mg/L	307787	1	12/24/2020 00:06	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:06	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:06	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:06	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:06	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:06	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:06	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:06	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:06	AS

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-10
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:10:00 AM
Lab ID:	2012N58-021	**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	307787	1	12/24/2020 00:10	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:10	AS
Barium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:10	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:10	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:10	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:10	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:10	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:10	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:10	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:10	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:10	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:10	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:10	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:10	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:10	AS

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-10A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:05:00 AM
Lab ID:	2012N58-022	**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	307787	1	12/24/2020 00:13	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:13	AS
Barium	0.0325	0.0200		mg/L	307787	1	12/24/2020 00:13	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:13	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:13	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:13	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:13	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:13	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:13	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:13	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:13	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:13	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:13	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:13	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:13	AS

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:**	GWC-11
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:20:00 AM
Lab ID:	2012N58-023	**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	307787	1	12/24/2020 00:31	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:31	AS
Barium	0.0254	0.0200		mg/L	307787	1	12/24/2020 00:31	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:31	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:31	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:31	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:31	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:31	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:31	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:31	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:31	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:31	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:31	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:31	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:31	AS

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-12A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:30:00 AM
Lab ID:	2012N58-025	**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	307787	1	12/24/2020 00:34	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:34	AS
Barium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:34	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:34	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:34	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:34	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:34	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:34	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:34	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:34	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:34	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:34	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:34	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:34	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:34	AS

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:**	GWC-19R
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:40:00 AM
Lab ID:	2012N58-026	**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	307787	1	12/24/2020 00:38	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:38	AS
Barium	0.0765	0.0200		mg/L	307787	1	12/24/2020 00:38	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:38	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:38	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:38	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:38	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:38	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:38	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:38	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:38	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:38	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:38	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:38	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:38	AS

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:**	GWC-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 1:25:00 PM
Lab ID:	2012N58-027	**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	307913	1	12/23/2020 03:25	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 03:25	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 03:25	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 03:25	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 03:25	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 03:25	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 03:25	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 03:25	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 03:25	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 03:25	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 03:25	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 03:25	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:25	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 03:25	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 03:25	CM

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:**	GWC-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 1:25:00 PM
Lab ID:	2012N58-027	**Matrix:**	Groundwater

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	307913	1	12/23/2020 03:25	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 03:25	CM
Surr: 4-Bromofluorobenzene	92.6	74.9-127		%REC	307913	1	12/23/2020 03:25	CM
Surr: Dibromofluoromethane	93.4	78.9-121		%REC	307913	1	12/23/2020 03:25	CM
Surr: Toluene-d8	95.8	81.5-120		%REC	307913	1	12/23/2020 03:25	CM

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:**	GWC-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 8:50:00 AM
Lab ID:	2012N58-028	**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	307787	1	12/24/2020 00:42	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:42	AS
Barium	0.0316	0.0200		mg/L	307787	1	12/24/2020 00:42	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:42	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:42	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:42	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:42	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:42	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:42	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:42	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:42	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:42	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:42	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:42	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:42	AS

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:**	GWC-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:40:00 PM
Lab ID:	2012N58-029	**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	307913	1	12/23/2020 03:50	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 03:50	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 03:50	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 03:50	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 03:50	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 03:50	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 03:50	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 03:50	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 03:50	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 03:50	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 03:50	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 03:50	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 03:50	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 03:50	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 03:50	CM

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:**	GWC-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:40:00 PM
Lab ID:	2012N58-029	**Matrix:**	Groundwater

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	307913	1	12/23/2020 03:50	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 03:50	CM
Surr: 4-Bromofluorobenzene	91.4	74.9-127		%REC	307913	1	12/23/2020 03:50	CM
Surr: Dibromofluoromethane	91.6	78.9-121		%REC	307913	1	12/23/2020 03:50	CM
Surr: Toluene-d8	95.7	81.5-120		%REC	307913	1	12/23/2020 03:50	CM

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:**	GWC-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 8:55:00 AM
Lab ID:	2012N58-030	**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	307787	1	12/24/2020 00:45	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:45	AS
Barium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:45	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:45	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:45	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:45	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:45	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:45	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:45	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:45	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:45	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:45	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:45	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:45	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:45	AS

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:**	GWC-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:25:00 PM
Lab ID:	2012N58-031	**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	307913	1	12/23/2020 04:15	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 04:15	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 04:15	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 04:15	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 04:15	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 04:15	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 04:15	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 04:15	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 04:15	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 04:15	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 04:15	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 04:15	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:15	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 04:15	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 04:15	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:25:00 PM
Lab ID:	2012N58-031	**Matrix:**	Groundwater

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	307913	1	12/23/2020 04:15	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 04:15	CM
Surr: 4-Bromofluorobenzene	91.2	74.9-127		%REC	307913	1	12/23/2020 04:15	CM
Surr: Dibromofluoromethane	93	78.9-121		%REC	307913	1	12/23/2020 04:15	CM
Surr: Toluene-d8	95.3	81.5-120		%REC	307913	1	12/23/2020 04:15	CM

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:**	GWC-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:05:00 AM
Lab ID:	2012N58-032	**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	307787	1	12/24/2020 00:49	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:49	AS
Barium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:49	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:49	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:49	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:49	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:49	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:49	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:49	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:49	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:49	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:49	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:49	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:49	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:49	AS

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 11:50:00 AM
Lab ID:	2012N58-033	**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	307913	1	12/23/2020 04:40	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 04:40	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 04:40	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 04:40	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 04:40	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 04:40	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 04:40	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 04:40	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 04:40	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 04:40	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 04:40	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 04:40	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 04:40	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 04:40	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 04:40	CM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 11:50:00 AM
Lab ID:	2012N58-033	**Matrix:**	Groundwater

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	307913	1	12/23/2020 04:40	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 04:40	CM
Surr: 4-Bromofluorobenzene	90.9	74.9-127		%REC	307913	1	12/23/2020 04:40	CM
Surr: Dibromofluoromethane	94.6	78.9-121		%REC	307913	1	12/23/2020 04:40	CM
Surr: Toluene-d8	94.5	81.5-120		%REC	307913	1	12/23/2020 04:40	CM

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:**	GWA-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:20:00 AM
Lab ID:	2012N58-034	**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	307787	1	12/24/2020 00:52	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:52	AS
Barium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:52	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:52	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:52	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:52	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:52	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:52	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:52	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:52	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:52	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:52	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:52	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:52	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:52	AS

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:**	GWC-8
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 11:25:00 AM
Lab ID:	2012N58-035	**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	307913	1	12/23/2020 05:04	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 05:04	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 05:04	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 05:04	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 05:04	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 05:04	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 05:04	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 05:04	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 05:04	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 05:04	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 05:04	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 05:04	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:04	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 05:04	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 05:04	CM

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:**	GWC-8
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 11:25:00 AM
Lab ID:	2012N58-035	**Matrix:**	Groundwater

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	307913	1	12/23/2020 05:04	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 05:04	CM
Surr: 4-Bromofluorobenzene	93	74.9-127		%REC	307913	1	12/23/2020 05:04	CM
Surr: Dibromofluoromethane	95.9	78.9-121		%REC	307913	1	12/23/2020 05:04	CM
Surr: Toluene-d8	96	81.5-120		%REC	307913	1	12/23/2020 05:04	CM

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:**	GWC-8
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:30:00 AM
Lab ID:	2012N58-036	**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	307787	1	12/24/2020 00:56	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:56	AS
Barium	0.0330	0.0200		mg/L	307787	1	12/24/2020 00:56	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:56	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:56	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:56	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:56	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:56	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:56	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:56	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:56	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:56	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:56	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:56	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:56	AS

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:**	GWC-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:05:00 PM
Lab ID:	2012N58-037	**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	307913	1	12/23/2020 05:29	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 05:29	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 05:29	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 05:29	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 05:29	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 05:29	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 05:29	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 05:29	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 05:29	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 05:29	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 05:29	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 05:29	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:29	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 05:29	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 05:29	CM

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:**	GWC-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 12:05:00 PM
Lab ID:	2012N58-037	**Matrix:**	Groundwater

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	307913	1	12/23/2020 05:29	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 05:29	CM
Surr: 4-Bromofluorobenzene	92	74.9-127		%REC	307913	1	12/23/2020 05:29	CM
Surr: Dibromofluoromethane	95.2	78.9-121		%REC	307913	1	12/23/2020 05:29	CM
Surr: Toluene-d8	95	81.5-120		%REC	307913	1	12/23/2020 05:29	CM

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:**	GWC-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 9:10:00 AM
Lab ID:	2012N58-038	**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	307787	1	12/24/2020 00:59	AS
Arsenic	BRL	0.0100		mg/L	307787	1	12/24/2020 00:59	AS
Barium	0.0811	0.0200		mg/L	307787	1	12/24/2020 00:59	AS
Beryllium	BRL	0.00300		mg/L	307787	1	12/24/2020 00:59	AS
Cadmium	BRL	0.00500		mg/L	307787	1	12/24/2020 00:59	AS
Chromium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:59	AS
Cobalt	BRL	0.0400		mg/L	307787	1	12/24/2020 00:59	AS
Copper	BRL	0.0200		mg/L	307787	1	12/24/2020 00:59	AS
Lead	BRL	0.0150		mg/L	307787	1	12/24/2020 00:59	AS
Nickel	BRL	0.0200		mg/L	307787	1	12/24/2020 00:59	AS
Selenium	BRL	0.0100		mg/L	307787	1	12/24/2020 00:59	AS
Silver	BRL	0.0100		mg/L	307787	1	12/24/2020 00:59	AS
Thallium	BRL	0.00200		mg/L	307787	1	12/24/2020 00:59	AS
Vanadium	BRL	0.0200		mg/L	307787	1	12/24/2020 00:59	AS
Zinc	BRL	0.0200		mg/L	307787	1	12/24/2020 00:59	AS

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:**	GWA-1A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 10:50:00 AM
Lab ID:	2012N58-039	**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	307913	1	12/23/2020 05:54	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
1,1-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
1,1-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
1,2,3-Trichloropropane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307913	1	12/23/2020 05:54	CM
1,2-Dibromoethane	BRL	1.0		ug/L	307913	1	12/23/2020 05:54	CM
1,2-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
1,2-Dichloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
1,2-Dichloropropane	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
1,4-Dichlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
2-Butanone	BRL	100		ug/L	307913	1	12/23/2020 05:54	CM
2-Hexanone	BRL	50		ug/L	307913	1	12/23/2020 05:54	CM
4-Methyl-2-pentanone	BRL	50		ug/L	307913	1	12/23/2020 05:54	CM
Acetone	BRL	100		ug/L	307913	1	12/23/2020 05:54	CM
Acrylonitrile	BRL	50		ug/L	307913	1	12/23/2020 05:54	CM
Benzene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Bromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Bromodichloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Bromoform	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Bromomethane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Carbon disulfide	BRL	5.0		ug/L	307913	1	12/23/2020 05:54	CM
Carbon tetrachloride	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Chlorobenzene	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Chloroethane	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Chloroform	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Chloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Dibromochloromethane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Dibromomethane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Ethylbenzene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Iodomethane	BRL	100		ug/L	307913	1	12/23/2020 05:54	CM
Methylene chloride	BRL	5.0		ug/L	307913	1	12/23/2020 05:54	CM
Styrene	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Tetrachloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Toluene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307913	1	12/23/2020 05:54	CM
Trichloroethene	BRL	2.0		ug/L	307913	1	12/23/2020 05:54	CM
Trichlorofluoromethane	BRL	10		ug/L	307913	1	12/23/2020 05:54	CM
Vinyl acetate	BRL	100		ug/L	307913	1	12/23/2020 05:54	CM

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

Analytical Environmental Services, Inc **Date:** 28-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-1A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 10:50:00 AM
Lab ID:	2012N58-039	**Matrix:**	Groundwater

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	307913	1	12/23/2020 05:54	CM
Xylenes, Total	BRL	5.0		ug/L	307913	1	12/23/2020 05:54	CM
Surr: 4-Bromofluorobenzene	90.7	74.9-127		%REC	307913	1	12/23/2020 05:54	CM
Surr: Dibromofluoromethane	93.8	78.9-121		%REC	307913	1	12/23/2020 05:54	CM
Surr: Toluene-d8	95.2	81.5-120		%REC	307913	1	12/23/2020 05:54	CM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 01:24	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 01:24	AS
Barium	0.0319	0.0200		mg/L	307788	1	12/24/2020 01:24	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 01:24	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 01:24	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 01:24	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 01:24	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 01:24	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 01:24	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 01:24	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 01:24	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 01:24	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 01:24	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 01:24	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 01:24	AS

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:**	PHI-GWC-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:00:00 PM
Lab ID:	2012N58-040	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	93	10		mg/L	307604	1	12/21/2020 15:15	NN
ION SCAN SW9056A								
Chloride	4.2	0.50		mg/L	R443010	1	12/18/2020 20:12	IP
Nitrate	BRL	0.25		mg/L	R443010	1	12/18/2020 20:12	IP
Sulfate	2.4	1.0		mg/L	R443010	1	12/18/2020 20:12	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,1-Dichloroethane	3.8	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 12:10	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 12:10	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 12:10	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 12:10	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 12:10	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 12:10	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
cis-1,2-Dichloroethene	7.8	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 12:10	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 12:10	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PHI-GWC-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:00:00 PM
Lab ID:	2012N58-040	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	5.3	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 12:10	ZH
Trichloroethene	2.5	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 12:10	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 12:10	ZH
Vinyl chloride	BRL	2.0		ug/L	307941	1	12/23/2020 12:10	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 12:10	ZH
Surr: 4-Bromofluorobenzene	91.6	74.9-127		%REC	307941	1	12/23/2020 12:10	ZH
Surr: Dibromofluoromethane	92.4	78.9-121		%REC	307941	1	12/23/2020 12:10	ZH
Surr: Toluene-d8	94.4	81.5-120		%REC	307941	1	12/23/2020 12:10	ZH
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 01:56	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 01:56	AS
Barium	BRL	0.0200		mg/L	307788	1	12/24/2020 01:56	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 01:56	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 01:56	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 01:56	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 01:56	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 01:56	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 01:56	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 01:56	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 01:56	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 01:56	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 01:56	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 01:56	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 01:56	AS
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	65.6	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	AMW-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 1:20:00 PM
Lab ID:	2012N58-041	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	108	10		mg/L	307604	1	12/21/2020 15:15	NN
ION SCAN SW9056A								
Chloride	2.3	0.50		mg/L	R443010	1	12/18/2020 21:40	IP
Nitrate	0.36	0.25		mg/L	R443010	1	12/18/2020 21:40	IP
Sulfate	9.4	1.0		mg/L	R443010	1	12/18/2020 21:40	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 12:35	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 12:35	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 12:35	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 12:35	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 12:35	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 12:35	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
cis-1,2-Dichloroethene	2.3	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 12:35	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 12:35	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 1:20:00 PM
Lab ID:	2012N58-041	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 12:35	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 12:35	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 12:35	ZH
Vinyl chloride	BRL	2.0		ug/L	307941	1	12/23/2020 12:35	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 12:35	ZH
Surr: 4-Bromofluorobenzene	90.3	74.9-127		%REC	307941	1	12/23/2020 12:35	ZH
Surr: Dibromofluoromethane	92.1	78.9-121		%REC	307941	1	12/23/2020 12:35	ZH
Surr: Toluene-d8	94.8	81.5-120		%REC	307941	1	12/23/2020 12:35	ZH
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 02:00	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 02:00	AS
Barium	0.0252	0.0200		mg/L	307788	1	12/24/2020 02:00	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 02:00	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 02:00	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:00	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 02:00	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 02:00	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 02:00	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 02:00	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:00	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 02:00	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 02:00	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:00	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 02:00	AS
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	78.7	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	AMW-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:50:00 PM
Lab ID:	2012N58-042	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	84	10		mg/L	307604	1	12/21/2020 15:15	NN
ION SCAN SW9056A								
Chloride	2.0	0.50		mg/L	R443010	1	12/18/2020 21:29	IP
Nitrate	BRL	0.25		mg/L	R443010	1	12/18/2020 21:29	IP
Sulfate	2.3	1.0		mg/L	R443010	1	12/18/2020 21:29	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,1-Dichloroethane	33	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 13:00	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 13:00	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 13:00	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 13:00	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 13:00	ZH
Benzene	3.1	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 13:00	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
cis-1,2-Dichloroethene	110	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 13:00	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 13:00	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:50:00 PM
Lab ID:	2012N58-042	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	19	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 13:00	ZH
Trichloroethene	45	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 13:00	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 13:00	ZH
Vinyl chloride	BRL	2.0		ug/L	307941	1	12/23/2020 13:00	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 13:00	ZH
Surr: 4-Bromofluorobenzene	91.5	74.9-127		%REC	307941	1	12/23/2020 13:00	ZH
Surr: Dibromofluoromethane	95.4	78.9-121		%REC	307941	1	12/23/2020 13:00	ZH
Surr: Toluene-d8	95.2	81.5-120		%REC	307941	1	12/23/2020 13:00	ZH
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 02:04	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 02:04	AS
Barium	0.0547	0.0200		mg/L	307788	1	12/24/2020 02:04	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 02:04	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 02:04	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:04	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 02:04	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 02:04	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 02:04	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 02:04	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:04	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 02:04	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 02:04	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:04	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 02:04	AS
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	68.1	3.00		mg/L	R442641	1	12/21/2020 08:39	CB

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:**	AMW-9
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:40:00 PM
Lab ID:	2012N58-043	**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	307941	1	12/23/2020 13:24	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 13:24	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 13:24	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 13:24	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 13:24	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 13:24	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 13:24	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 13:24	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 13:24	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 13:24	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:24	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 13:24	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 13:24	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-9
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:40:00 PM
Lab ID:	2012N58-043	**Matrix:**	Groundwater

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	307941	1	12/23/2020 13:24	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 13:24	ZH
Surr: 4-Bromofluorobenzene	92.9	74.9-127		%REC	307941	1	12/23/2020 13:24	ZH
Surr: Dibromofluoromethane	94.9	78.9-121		%REC	307941	1	12/23/2020 13:24	ZH
Surr: Toluene-d8	93.2	81.5-120		%REC	307941	1	12/23/2020 13:24	ZH

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:**	GWA-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:50:00 PM
Lab ID:	2012N58-044	**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	307941	1	12/23/2020 13:49	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 13:49	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 13:49	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 13:49	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 13:49	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 13:49	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 13:49	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 13:49	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 13:49	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 13:49	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 13:49	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 13:49	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 13:49	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:50:00 PM
Lab ID:	2012N58-044	**Matrix:**	Groundwater

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	307941	1	12/23/2020 13:49	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 13:49	ZH
Surr: 4-Bromofluorobenzene	91.5	74.9-127		%REC	307941	1	12/23/2020 13:49	ZH
Surr: Dibromofluoromethane	93.3	78.9-121		%REC	307941	1	12/23/2020 13:49	ZH
Surr: Toluene-d8	94.3	81.5-120		%REC	307941	1	12/23/2020 13:49	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-4A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 4:05:00 PM
Lab ID:	2012N58-045	**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	307941	1	12/23/2020 15:03	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 15:03	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 15:03	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 15:03	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 15:03	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 15:03	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 15:03	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 15:03	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 15:03	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 15:03	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:03	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 15:03	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 15:03	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-4A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 4:05:00 PM
Lab ID:	2012N58-045	**Matrix:**	Groundwater

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	307941	1	12/23/2020 15:03	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 15:03	ZH
Surr: 4-Bromofluorobenzene	92.4	74.9-127		%REC	307941	1	12/23/2020 15:03	ZH
Surr: Dibromofluoromethane	92.5	78.9-121		%REC	307941	1	12/23/2020 15:03	ZH
Surr: Toluene-d8	95.7	81.5-120		%REC	307941	1	12/23/2020 15:03	ZH

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:**	GWC-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:00:00 PM
Lab ID:	2012N58-046	**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	307941	1	12/23/2020 15:27	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 15:27	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 15:27	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 15:27	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 15:27	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 15:27	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 15:27	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 15:27	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 15:27	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 15:27	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:27	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 15:27	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 15:27	ZH

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:**	GWC-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:00:00 PM
Lab ID:	2012N58-046	**Matrix:**	Groundwater

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	307941	1	12/23/2020 15:27	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 15:27	ZH
Surr: 4-Bromofluorobenzene	91.3	74.9-127		%REC	307941	1	12/23/2020 15:27	ZH
Surr: Dibromofluoromethane	94.1	78.9-121		%REC	307941	1	12/23/2020 15:27	ZH
Surr: Toluene-d8	94.9	81.5-120		%REC	307941	1	12/23/2020 15:27	ZH

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:**	GWC-5
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 11:15:00 AM
Lab ID:	2012N58-047	**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	307941	1	12/23/2020 15:51	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 15:51	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 15:51	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 15:51	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 15:51	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 15:51	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 15:51	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 15:51	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 15:51	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 15:51	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 15:51	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 15:51	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 15:51	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-5
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 11:15:00 AM
Lab ID:	2012N58-047	**Matrix:**	Groundwater

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	307941	1	12/23/2020 15:51	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 15:51	ZH
Surr: 4-Bromofluorobenzene	91.2	74.9-127		%REC	307941	1	12/23/2020 15:51	ZH
Surr: Dibromofluoromethane	93.4	78.9-121		%REC	307941	1	12/23/2020 15:51	ZH
Surr: Toluene-d8	93.8	81.5-120		%REC	307941	1	12/23/2020 15:51	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-6
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 11:00:00 AM
Lab ID:	2012N58-048	**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	307941	1	12/23/2020 16:16	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 16:16	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 16:16	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 16:16	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 16:16	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 16:16	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 16:16	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 16:16	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 16:16	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 16:16	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:16	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 16:16	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 16:16	ZH

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:**	GWC-6
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 11:00:00 AM
Lab ID:	2012N58-048	**Matrix:**	Groundwater

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	307941	1	12/23/2020 16:16	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 16:16	ZH
Surr: 4-Bromofluorobenzene	91.9	74.9-127		%REC	307941	1	12/23/2020 16:16	ZH
Surr: Dibromofluoromethane	92.5	78.9-121		%REC	307941	1	12/23/2020 16:16	ZH
Surr: Toluene-d8	94.6	81.5-120		%REC	307941	1	12/23/2020 16:16	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-7
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 10:25:00 AM
Lab ID:	2012N58-049	**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	307941	1	12/23/2020 16:41	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 16:41	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 16:41	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 16:41	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 16:41	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 16:41	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 16:41	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 16:41	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 16:41	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 16:41	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 16:41	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 16:41	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 16:41	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-7
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 10:25:00 AM
Lab ID:	2012N58-049	**Matrix:**	Groundwater

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	307941	1	12/23/2020 16:41	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 16:41	ZH
Surr: 4-Bromofluorobenzene	91.1	74.9-127		%REC	307941	1	12/23/2020 16:41	ZH
Surr: Dibromofluoromethane	92.9	78.9-121		%REC	307941	1	12/23/2020 16:41	ZH
Surr: Toluene-d8	94.4	81.5-120		%REC	307941	1	12/23/2020 16:41	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-9
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 10:00:00 AM
Lab ID:	2012N58-050	**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	307941	1	12/23/2020 17:05	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 17:05	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 17:05	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 17:05	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 17:05	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 17:05	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 17:05	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 17:05	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 17:05	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 17:05	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:05	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 17:05	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 17:05	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-9
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 10:00:00 AM
Lab ID:	2012N58-050	**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	307941	1	12/23/2020 17:05	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 17:05	ZH
Surr: 4-Bromofluorobenzene	91.7	74.9-127		%REC	307941	1	12/23/2020 17:05	ZH
Surr: Dibromofluoromethane	94.5	78.9-121		%REC	307941	1	12/23/2020 17:05	ZH
Surr: Toluene-d8	94.6	81.5-120		%REC	307941	1	12/23/2020 17:05	ZH

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:**	12/16/2020
Lab ID:	2012N58-051	**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	307941	1	12/23/2020 11:21	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 11:21	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 11:21	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 11:21	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 11:21	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 11:21	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 11:21	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 11:21	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 11:21	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 11:21	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:21	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 11:21	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 11:21	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020
Lab ID:	2012N58-051	**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	307941	1	12/23/2020 11:21	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 11:21	ZH
Surr: 4-Bromofluorobenzene	91.8	74.9-127		%REC	307941	1	12/23/2020 11:21	ZH
Surr: Dibromofluoromethane	91.3	78.9-121		%REC	307941	1	12/23/2020 11:21	ZH
Surr: Toluene-d8	94.6	81.5-120		%REC	307941	1	12/23/2020 11:21	ZH

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:**	FIELD BLANK 2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:35:00 PM
Lab ID:	2012N58-052	**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	307941	1	12/23/2020 11:45	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 11:45	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 11:45	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 11:45	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 11:45	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 11:45	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 11:45	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 11:45	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 11:45	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 11:45	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 11:45	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 11:45	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 11:45	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	FIELD BLANK 2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 12:35:00 PM
Lab ID:	2012N58-052	**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	307941	1	12/23/2020 11:45	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 11:45	ZH
Surr: 4-Bromofluorobenzene	92	74.9-127		%REC	307941	1	12/23/2020 11:45	ZH
Surr: Dibromofluoromethane	91.1	78.9-121		%REC	307941	1	12/23/2020 11:45	ZH
Surr: Toluene-d8	94	81.5-120		%REC	307941	1	12/23/2020 11:45	ZH
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 02:07	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 02:07	AS
Barium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:07	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 02:07	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 02:07	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:07	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 02:07	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 02:07	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 02:07	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 02:07	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:07	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 02:07	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 02:07	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:07	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 02:07	AS

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:20:00 PM
Lab ID:	2012N58-053	**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	307941	1	12/23/2020 17:30	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
2-Butanone	BRL	100		ug/L	307941	1	12/23/2020 17:30	ZH
2-Hexanone	BRL	50		ug/L	307941	1	12/23/2020 17:30	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	307941	1	12/23/2020 17:30	ZH
Acetone	BRL	100		ug/L	307941	1	12/23/2020 17:30	ZH
Acrylonitrile	BRL	50		ug/L	307941	1	12/23/2020 17:30	ZH
Benzene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Bromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Bromodichloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Bromoform	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Bromomethane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Carbon disulfide	BRL	5.0		ug/L	307941	1	12/23/2020 17:30	ZH
Carbon tetrachloride	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Chlorobenzene	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Chloroethane	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Chloroform	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Chloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Dibromochloromethane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Dibromomethane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Ethylbenzene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Iodomethane	BRL	100		ug/L	307941	1	12/23/2020 17:30	ZH
Methylene chloride	BRL	5.0		ug/L	307941	1	12/23/2020 17:30	ZH
Styrene	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Tetrachloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Toluene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307941	1	12/23/2020 17:30	ZH
Trichloroethene	BRL	2.0		ug/L	307941	1	12/23/2020 17:30	ZH
Trichlorofluoromethane	BRL	10		ug/L	307941	1	12/23/2020 17:30	ZH
Vinyl acetate	BRL	100		ug/L	307941	1	12/23/2020 17:30	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/17/2020 2:20:00 PM
Lab ID:	2012N58-053	**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	307941	1	12/23/2020 17:30	ZH
Xylenes, Total	BRL	5.0		ug/L	307941	1	12/23/2020 17:30	ZH
Surr: 4-Bromofluorobenzene	93.3	74.9-127		%REC	307941	1	12/23/2020 17:30	ZH
Surr: Dibromofluoromethane	91.3	78.9-121		%REC	307941	1	12/23/2020 17:30	ZH
Surr: Toluene-d8	93.2	81.5-120		%REC	307941	1	12/23/2020 17:30	ZH

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:**	GWC-18
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:30:00 AM
Lab ID:	2012N58-054	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 02:11	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 02:11	AS
Barium	0.160	0.0200		mg/L	307788	1	12/24/2020 02:11	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 02:11	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 02:11	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:11	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 02:11	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 02:11	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 02:11	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 02:11	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:11	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 02:11	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 02:11	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:11	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 02:11	AS

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-14A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:40:00 AM
Lab ID:	2012N58-055	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 02:14	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 02:14	AS
Barium	0.171	0.0200		mg/L	307788	1	12/24/2020 02:14	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 02:14	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 02:14	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:14	AS
Cobalt	0.298	0.0400		mg/L	307788	1	12/24/2020 02:14	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 02:14	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 02:14	AS
Nickel	0.0236	0.0200		mg/L	307788	1	12/24/2020 02:14	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:14	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 02:14	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 02:14	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:14	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 02:14	AS

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

Analytical Environmental Services, Inc **Date:** 28-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-13
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 9:45:00 AM
Lab ID:	2012N58-056	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 02:18	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 02:18	AS
Barium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:18	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 02:18	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 02:18	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:18	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 02:18	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 02:18	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 02:18	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 02:18	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:18	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 02:18	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 02:18	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:18	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 02:18	AS

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:**	GWC-17
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/16/2020 10:05:00 AM
Lab ID:	2012N58-057	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307788	1	12/24/2020 02:21	AS
Arsenic	BRL	0.0100		mg/L	307788	1	12/24/2020 02:21	AS
Barium	0.0407	0.0200		mg/L	307788	1	12/24/2020 02:21	AS
Beryllium	BRL	0.00300		mg/L	307788	1	12/24/2020 02:21	AS
Cadmium	BRL	0.00500		mg/L	307788	1	12/24/2020 02:21	AS
Chromium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:21	AS
Cobalt	BRL	0.0400		mg/L	307788	1	12/24/2020 02:21	AS
Copper	BRL	0.0200		mg/L	307788	1	12/24/2020 02:21	AS
Lead	BRL	0.0150		mg/L	307788	1	12/24/2020 02:21	AS
Nickel	BRL	0.0200		mg/L	307788	1	12/24/2020 02:21	AS
Selenium	BRL	0.0100		mg/L	307788	1	12/24/2020 02:21	AS
Silver	BRL	0.0100		mg/L	307788	1	12/24/2020 02:21	AS
Thallium	BRL	0.00200		mg/L	307788	1	12/24/2020 02:21	AS
Vanadium	BRL	0.0200		mg/L	307788	1	12/24/2020 02:21	AS
Zinc	BRL	0.0200		mg/L	307788	1	12/24/2020 02:21	AS

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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.** AES Work Order Number: **2012N58**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ■ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 0.1 °C Cooler 2 Temperature 0.1 °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). ARS 12/18/20

		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 ☐ illegible ☐ no label ☐ other ■	
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 ☐ samples listed on COC not received ■	
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 ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). SH 12/18/20

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

		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?	○	○	●		

* 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. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). SH 12/18/20

Locked

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012N58

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012N58-001A	AMW-12R	12/16/2020 10:55:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/22/2020
2012N58-002A	AMW-12	12/16/2020 11:30:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/22/2020
2012N58-003A	GWC-23	12/16/2020 12:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/22/2020
2012N58-004A	GWC-23A	12/16/2020 12:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-005A	GWC-14R	12/17/2020 4:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-005B	GWC-14R	12/17/2020 4:05:00PM	Groundwater	ION SCAN			12/18/2020
2012N58-005B	GWC-14R	12/17/2020 4:05:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012N58-005B	GWC-14R	12/17/2020 4:05:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/21/2020 2:00:00 PM	12/21/2020
2012N58-006A	GWC-14	12/17/2020 9:35:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-007A	GWC-22	12/17/2020 9:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-008A	GWC-23	12/17/2020 8:40:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/23/2020
2012N58-009A	GWC-23A	12/17/2020 8:45:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/23/2020
2012N58-010A	AMW-13	12/16/2020 9:55:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/23/2020
2012N58-011A	PHI-GWB-1	12/17/2020 1:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-012A	PHI-GWB-2	12/17/2020 1:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-013A	PHI-GWC-1	12/17/2020 3:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-014A	PHI-GWC-4	12/17/2020 12:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-015A	GWC-8A	12/16/2020 9:00:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/23/2020
2012N58-016A	PHI-GWC-3A	12/16/2020 9:20:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/23/2020
2012N58-017A	PHI-GWC-3	12/16/2020 9:25:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/23/2020
2012N58-018A	PHI-GWA-4	12/16/2020 9:45:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/23/2020
2012N58-019A	PHI-GWA-2	12/16/2020 9:35:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-020A	PHI-GWA-1	12/16/2020 9:50:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-021A	GWC-10	12/16/2020 10:10:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-022A	GWC-10A	12/16/2020 10:05:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-023A	GWC-11	12/16/2020 10:20:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-025A	GWC-12A	12/16/2020 10:30:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-026A	GWC-19R	12/16/2020 10:40:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-027A	GWC-3A	12/16/2020 1:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012N58

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012N58-028A	GWC-3A	12/17/2020 8:50:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-029A	GWC-3	12/16/2020 12:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-030A	GWC-3	12/17/2020 8:55:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-031A	GWC-2	12/16/2020 12:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-032A	GWC-2	12/17/2020 9:05:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-033A	GWA-3	12/16/2020 11:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-034A	GWA-3	12/17/2020 9:20:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-035A	GWC-8	12/16/2020 11:25:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-036A	GWC-8	12/17/2020 9:30:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-037A	GWC-1	12/16/2020 12:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-038A	GWC-1	12/17/2020 9:10:00AM	Groundwater	APPENDIX I METALS		12/21/2020 5:20:00 PM	12/24/2020
2012N58-039A	GWA-1A	12/17/2020 10:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/22/2020 9:14:00 PM	12/23/2020
2012N58-039B	GWA-1A	12/17/2020 10:50:00AM	Groundwater	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-040A	PHI-GWC-2	12/17/2020 12:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-040B	PHI-GWC-2	12/17/2020 12:00:00PM	Groundwater	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-040C	PHI-GWC-2	12/17/2020 12:00:00PM	Groundwater	ION SCAN			12/18/2020
2012N58-040C	PHI-GWC-2	12/17/2020 12:00:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012N58-040C	PHI-GWC-2	12/17/2020 12:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/21/2020 2:00:00 PM	12/21/2020
2012N58-041A	AMW-2	12/17/2020 1:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-041B	AMW-2	12/17/2020 1:20:00PM	Groundwater	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-041C	AMW-2	12/17/2020 1:20:00PM	Groundwater	ION SCAN			12/18/2020
2012N58-041C	AMW-2	12/17/2020 1:20:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012N58-041C	AMW-2	12/17/2020 1:20:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/21/2020 2:00:00 PM	12/21/2020
2012N58-042A	AMW-1	12/17/2020 2:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-042B	AMW-1	12/17/2020 2:50:00PM	Groundwater	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-042C	AMW-1	12/17/2020 2:50:00PM	Groundwater	ION SCAN			12/18/2020
2012N58-042C	AMW-1	12/17/2020 2:50:00PM	Groundwater	Alkalinity by SM2320B			12/21/2020
2012N58-042C	AMW-1	12/17/2020 2:50:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/21/2020 2:00:00 PM	12/21/2020
2012N58-043A	AMW-9	12/17/2020 12:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012N58

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012N58-044A	GWA-2	12/17/2020 2:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-045A	GWC-4A	12/17/2020 4:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-046A	GWC-4	12/17/2020 2:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-047A	GWC-5	12/17/2020 11:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-048A	GWC-6	12/17/2020 11:00:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-049A	GWC-7	12/17/2020 10:25:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-050A	GWC-9	12/17/2020 10:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-051A	TRIP BLANK	12/16/2020 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-052A	FIELD BLANK 2	12/17/2020 12:35:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-052B	FIELD BLANK 2	12/17/2020 12:35:00PM	Aqueous	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-053A	GWA-1	12/17/2020 2:20:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/23/2020 9:50:00 AM	12/23/2020
2012N58-054A	GWC-18	12/16/2020 9:30:00AM	Aqueous	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-055A	GWC-14A	12/16/2020 9:40:00AM	Aqueous	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-056A	GWC-13	12/16/2020 9:45:00AM	Aqueous	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020
2012N58-057A	GWC-17	12/16/2020 10:05:00AM	Aqueous	APPENDIX I METALS		12/22/2020 10:11:00 AM	12/24/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307604

Sample ID: **MB-307604**	Client ID:			Units: **mg/L**	Prep Date: **12/21/2020**	Run No: **442617**
SampleType: **MBLK**	TestCode: **Residue, Dissolved (TDS) by SM2540C**			BatchID: **307604**	Analysis Date: **12/21/2020**	Seq No: **10090357**

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: **2012N58-005BDUP**	Client ID: **GWC-14R**			Units: **mg/L**	Prep Date: **12/21/2020**	Run No: **442617**
SampleType: **DUP**	TestCode: **Residue, Dissolved (TDS) by SM2540C**			BatchID: **307604**	Analysis Date: **12/21/2020**	Seq No: **10090359**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	170.0	10						166.0	2.38	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: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307787

Sample ID: **MB-307787** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442950**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307787** Analysis Date: **12/23/2020** Seq No: **10095790**

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-307787** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442950**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307787** Analysis Date: **12/23/2020** Seq No: **10095791**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1049	0.00600	0.1000		105	80	120				
Arsenic	0.1043	0.0100	0.1000		104	80	120				
Barium	0.1001	0.0200	0.1000		100	80	120				
Beryllium	0.1024	0.00400	0.1000		102	80	120				
Cadmium	0.09983	0.00500	0.1000		99.8	80	120				
Chromium	0.1037	0.0200	0.1000		104	80	120				
Cobalt	0.1080	0.0500	0.1000		108	80	120				
Copper	0.09939	0.0200	0.1000		99.4	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307787

Sample ID: **LCS-307787** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442950**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307787** Analysis Date: **12/23/2020** Seq No: **10095791**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.1112	0.0100	0.1000		111	80	120				
Nickel	0.1032	0.0400	0.1000		103	80	120				
Selenium	0.1017	0.0500	0.1000		102	80	120				
Silver	0.01066	0.00500	0.0100		107	80	120				
Thallium	0.1075	0.00200	0.1000		108	80	120				
Vanadium	0.1078	0.0500	0.1000		108	80	120				
Zinc	0.09711	0.0200	0.1000		97.1	80	120				

Sample ID: **2012N58-008AMS** Client ID: **GWC-23** Units: **mg/L** Prep Date: **12/21/2020** Run No: **442950**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307787** Analysis Date: **12/23/2020** Seq No: **10095793**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1033	0.00600	0.1000		103	75	125				
Arsenic	0.1025	0.0100	0.1000		102	75	125				
Barium	0.1147	0.0200	0.1000	0.01315	102	75	125				
Beryllium	0.1068	0.00400	0.1000		107	75	125				
Cadmium	0.09892	0.00500	0.1000		98.9	75	125				
Chromium	0.1045	0.0200	0.1000		104	75	125				
Cobalt	0.1079	0.0500	0.1000		108	75	125				
Copper	0.1001	0.0200	0.1000		100	75	125				
Lead	0.1107	0.0100	0.1000		111	75	125				
Nickel	0.1021	0.0400	0.1000		102	75	125				
Selenium	0.09418	0.0500	0.1000		94.2	75	125				
Silver	0.01089	0.00500	0.0100		109	75	125				
Thallium	0.1107	0.00200	0.1000	0.0004469	110	75	125				
Vanadium	0.1080	0.0500	0.1000		108	75	125				
Zinc	0.1052	0.0200	0.1000	0.01061	94.6	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307787

Sample ID: **2012N58-008AMSD** Client ID: **GWC-23** Units: **mg/L** Prep Date: **12/21/2020** Run No: **442950**
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307787** Analysis Date: **12/23/2020** Seq No: **10095794**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1068	0.00600	0.1000		107	75	125	0.1033	3.30	20	
Arsenic	0.1079	0.0100	0.1000		108	75	125	0.1025	5.18	20	
Barium	0.1173	0.0200	0.1000	0.01315	104	75	125	0.1147	2.23	20	
Beryllium	0.1096	0.00400	0.1000		110	75	125	0.1068	2.52	20	
Cadmium	0.09859	0.00500	0.1000		98.6	75	125	0.09892	0.331	20	
Chromium	0.1068	0.0200	0.1000		107	75	125	0.1045	2.23	20	
Cobalt	0.1110	0.0500	0.1000		111	75	125	0.1079	2.86	20	
Copper	0.1010	0.0200	0.1000		101	75	125	0.1001	0.917	20	
Lead	0.1131	0.0100	0.1000		113	75	125	0.1107	2.13	20	
Nickel	0.1056	0.0400	0.1000		106	75	125	0.1021	3.43	20	
Selenium	0.09927	0.0500	0.1000		99.3	75	125	0.09418	5.26	20	
Silver	0.01145	0.00500	0.0100		114	75	125	0.01089	4.97	20	
Thallium	0.1113	0.00200	0.1000	0.0004469	111	75	125	0.1107	0.547	20	
Vanadium	0.1072	0.0500	0.1000		107	75	125	0.1080	0.816	20	
Zinc	0.1091	0.0200	0.1000	0.01061	98.5	75	125	0.1052	3.63	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307788

Sample ID: **MB-307788** Client ID: Units: **mg/L** Prep Date: **12/22/2020** Run No: **442952**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307788** Analysis Date: **12/24/2020** Seq No: **10095893**

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-307788** Client ID: Units: **mg/L** Prep Date: **12/22/2020** Run No: **442952**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307788** Analysis Date: **12/24/2020** Seq No: **10095894**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09982	0.00600	0.1000		99.8	80	120				
Arsenic	0.1031	0.0100	0.1000		103	80	120				
Barium	0.1005	0.0200	0.1000		100	80	120				
Beryllium	0.1031	0.00400	0.1000		103	80	120				
Cadmium	0.09744	0.00500	0.1000		97.4	80	120				
Chromium	0.1059	0.0200	0.1000		106	80	120				
Cobalt	0.1060	0.0500	0.1000		106	80	120				
Copper	0.09785	0.0200	0.1000		97.8	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307788

Sample ID: **LCS-307788** Client ID: Units: **mg/L** Prep Date: **12/22/2020** Run No: **442952**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307788** Analysis Date: **12/24/2020** Seq No: **10095894**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.1071	0.0100	0.1000		107	80	120				
Nickel	0.1054	0.0400	0.1000		105	80	120				
Selenium	0.09500	0.0500	0.1000		95.0	80	120				
Silver	0.01090	0.00500	0.0100		109	80	120				
Thallium	0.1094	0.00200	0.1000		109	80	120				
Vanadium	0.1079	0.0500	0.1000		108	80	120				
Zinc	0.09544	0.0200	0.1000		95.4	80	120				

Sample ID: **2012N58-039BMS** Client ID: **GWA-1A** Units: **mg/L** Prep Date: **12/22/2020** Run No: **442952**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307788** Analysis Date: **12/24/2020** Seq No: **10095896**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09980	0.00600	0.1000		99.8	75	125				
Arsenic	0.1014	0.0100	0.1000		101	75	125				
Barium	0.1291	0.0200	0.1000	0.03190	97.3	75	125				
Beryllium	0.1049	0.00400	0.1000		105	75	125				
Cadmium	0.09699	0.00500	0.1000		97.0	75	125				
Chromium	0.1041	0.0200	0.1000		104	75	125				
Cobalt	0.1052	0.0500	0.1000		105	75	125				
Copper	0.09742	0.0200	0.1000		97.4	75	125				
Lead	0.1082	0.0100	0.1000		108	75	125				
Nickel	0.1030	0.0400	0.1000	0.0009957	102	75	125				
Selenium	0.09269	0.0500	0.1000		92.7	75	125				
Silver	0.01075	0.00500	0.0100		108	75	125				
Thallium	0.1099	0.00200	0.1000	0.0004809	109	75	125				
Vanadium	0.1052	0.0500	0.1000		105	75	125				
Zinc	0.09438	0.0200	0.1000		94.4	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307788

Sample ID: **2012N58-039BMSD** Client ID: **GWA-1A** Units: **mg/L** Prep Date: **12/22/2020** Run No: **442952**
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307788** Analysis Date: **12/24/2020** Seq No: **10095897**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1041	0.00600	0.1000		104	75	125	0.09980	4.19	20	
Arsenic	0.1030	0.0100	0.1000		103	75	125	0.1014	1.56	20	
Barium	0.1292	0.0200	0.1000	0.03190	97.3	75	125	0.1291	0.067	20	
Beryllium	0.1040	0.00400	0.1000		104	75	125	0.1049	0.826	20	
Cadmium	0.09670	0.00500	0.1000		96.7	75	125	0.09699	0.303	20	
Chromium	0.09983	0.0200	0.1000		99.8	75	125	0.1041	4.18	20	
Cobalt	0.1033	0.0500	0.1000		103	75	125	0.1052	1.77	20	
Copper	0.09895	0.0200	0.1000		99.0	75	125	0.09742	1.56	20	
Lead	0.1096	0.0100	0.1000		110	75	125	0.1082	1.24	20	
Nickel	0.09944	0.0400	0.1000	0.0009957	98.4	75	125	0.1030	3.52	20	
Selenium	0.09895	0.0500	0.1000		98.9	75	125	0.09269	6.53	20	
Silver	0.01062	0.00500	0.0100		106	75	125	0.01075	1.24	20	
Thallium	0.1061	0.00200	0.1000	0.0004809	106	75	125	0.1099	3.53	20	
Vanadium	0.1034	0.0500	0.1000		103	75	125	0.1052	1.72	20	
Zinc	0.09713	0.0200	0.1000		97.1	75	125	0.09438	2.87	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307913

Sample ID: **MB-307913** Client ID: Units: **ug/L** Prep Date: **12/22/2020** Run No: **442862**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307913** Analysis Date: **12/22/2020** Seq No: **10093493**

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: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307913

Sample ID: **MB-307913** Client ID: Units: **ug/L** Prep Date: **12/22/2020** Run No: **442862**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307913** Analysis Date: **12/22/2020** Seq No: **10093493**

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	46.12	0	50.00		92.2	74.9	127				
Surr: Dibromofluoromethane	45.82	0	50.00		91.6	78.9	121				
Surr: Toluene-d8	48.21	0	50.00		96.4	81.5	120				

Sample ID: **LCS-307913** Client ID: Units: **ug/L** Prep Date: **12/22/2020** Run No: **442862**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307913** Analysis Date: **12/22/2020** Seq No: **10093496**

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: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307913

Sample ID: **LCS-307913** Client ID: Units: **ug/L** Prep Date: **12/22/2020** Run No: **442862**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307913** Analysis Date: **12/22/2020** Seq No: **10093496**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.78	5.0	50.00		110	69.2	141				
Benzene	55.29	5.0	50.00		111	72.3	126				
Chlorobenzene	50.27	5.0	50.00		101	73.3	135				
Toluene	54.40	5.0	50.00		109	70.5	128				
Trichloroethene	51.16	5.0	50.00		102	70.3	133				
Surr: 4-Bromofluorobenzene	46.91	0	50.00		93.8	74.9	127				
Surr: Dibromofluoromethane	46.24	0	50.00		92.5	78.9	121				
Surr: Toluene-d8	48.41	0	50.00		96.8	81.5	120				

Sample ID: **2012N58-001AMS** Client ID: **AMW-12R** Units: **ug/L** Prep Date: **12/22/2020** Run No: **442862**
SampleType: **MS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307913** Analysis Date: **12/23/2020** Seq No: **10095447**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	59.10	5.0	50.00		118	63.8	146				
Benzene	57.86	5.0	50.00		116	70.2	137				
Chlorobenzene	50.57	5.0	50.00		101	72.7	141				
Toluene	55.56	5.0	50.00		111	67	141				
Trichloroethene	56.51	5.0	50.00	2.830	107	69.3	141				
Surr: 4-Bromofluorobenzene	47.19	0	50.00		94.4	74.9	127				
Surr: Dibromofluoromethane	46.34	0	50.00		92.7	78.9	121				
Surr: Toluene-d8	47.69	0	50.00		95.4	81.5	120				

Sample ID: **2012N58-001AMSD** Client ID: **AMW-12R** Units: **ug/L** Prep Date: **12/22/2020** Run No: **442862**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307913** Analysis Date: **12/23/2020** Seq No: **10095448**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.86	5.0	50.00		110	63.8	146	59.10	7.44	20.8	
Benzene	54.98	5.0	50.00		110	70.2	137	57.86	5.10	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307913

Sample ID: **2012N58-001AMSD** Client ID: **AMW-12R** Units: **ug/L** Prep Date: **12/22/2020** Run No: **442862**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307913** Analysis Date: **12/23/2020** Seq No: **10095448**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	49.43	5.0	50.00		98.9	72.7	141	50.57	2.28	20	
Toluene	53.38	5.0	50.00		107	67	141	55.56	4.00	20	
Trichloroethene	53.36	5.0	50.00	2.830	101	69.3	141	56.51	5.73	17.9	
Surr: 4-Bromofluorobenzene	46.21	0	50.00		92.4	74.9	127	47.19	0	0	
Surr: Dibromofluoromethane	46.95	0	50.00		93.9	78.9	121	46.34	0	0	
Surr: Toluene-d8	47.62	0	50.00		95.2	81.5	120	47.69	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307941

Sample ID: **MB-307941** Client ID: Units: **ug/L** Prep Date: **12/23/2020** Run No: **442933**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307941** Analysis Date: **12/23/2020** Seq No: **10095430**

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: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307941

Sample ID: **MB-307941** Client ID: Units: **ug/L** Prep Date: **12/23/2020** Run No: **442933**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307941** Analysis Date: **12/23/2020** Seq No: **10095430**

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	46.23	0	50.00		92.5	74.9	127				
Surr: Dibromofluoromethane	45.56	0	50.00		91.1	78.9	121				
Surr: Toluene-d8	46.98	0	50.00		94.0	81.5	120				

Sample ID: **LCS-307941** Client ID: Units: **ug/L** Prep Date: **12/23/2020** Run No: **442933**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307941** Analysis Date: **12/23/2020** Seq No: **10095429**

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: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307941

Sample ID: **LCS-307941**	Client ID:		Units: **ug/L**	Prep Date: **12/23/2020**	Run No: **442933**
SampleType: **LCS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307941**	Analysis Date: **12/23/2020**	Seq No: **10095429**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	50.62	5.0	50.00		101	69.2	141				
Benzene	52.38	5.0	50.00		105	72.3	126				
Chlorobenzene	48.62	5.0	50.00		97.2	73.3	135				
Toluene	51.20	5.0	50.00		102	70.5	128				
Trichloroethene	47.99	5.0	50.00		96.0	70.3	133				
Surr: 4-Bromofluorobenzene	46.65	0	50.00		93.3	74.9	127				
Surr: Dibromofluoromethane	45.75	0	50.00		91.5	78.9	121				
Surr: Toluene-d8	47.46	0	50.00		94.9	81.5	120				

Sample ID: **2012N58-041AMS**	Client ID: **AMW-2**		Units: **ug/L**	Prep Date: **12/23/2020**	Run No: **442933**
SampleType: **MS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307941**	Analysis Date: **12/24/2020**	Seq No: **10096950**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	53.76	5.0	50.00		108	63.8	146				
Benzene	53.77	5.0	50.00		108	70.2	137				
Chlorobenzene	49.52	5.0	50.00		99.0	72.7	141				
Toluene	53.18	5.0	50.00		106	67	141				
Trichloroethene	49.62	5.0	50.00		99.2	69.3	141				
Surr: 4-Bromofluorobenzene	48.92	0	50.00		97.8	74.9	127				
Surr: Dibromofluoromethane	49.49	0	50.00		99.0	78.9	121				
Surr: Toluene-d8	51.65	0	50.00		103	81.5	120				

Sample ID: **2012N58-041AMSD**	Client ID: **AMW-2**		Units: **ug/L**	Prep Date: **12/23/2020**	Run No: **442933**
SampleType: **MSD**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307941**	Analysis Date: **12/24/2020**	Seq No: **10096951**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.35	5.0	50.00		103	63.8	146	53.76	4.59	20.8	
Benzene	52.67	5.0	50.00		105	70.2	137	53.77	2.07	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: 307941

Sample ID: **2012N58-041AMSD** Client ID: **AMW-2** Units: **ug/L** Prep Date: **12/23/2020** Run No: **442933**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307941** Analysis Date: **12/24/2020** Seq No: **10096951**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	49.47	5.0	50.00		98.9	72.7	141	49.52	0.101	20	
Toluene	52.43	5.0	50.00		105	67	141	53.18	1.42	20	
Trichloroethene	48.05	5.0	50.00		96.1	69.3	141	49.62	3.21	17.9	
Surr: 4-Bromofluorobenzene	49.88	0	50.00		99.8	74.9	127	48.92	0	0	
Surr: Dibromofluoromethane	49.12	0	50.00		98.2	78.9	121	49.49	0	0	
Surr: Toluene-d8	51.89	0	50.00		104	81.5	120	51.65	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: R442641

Sample ID: **LCS-R442641**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **442641**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R442641**		Analysis Date: **12/21/2020**		Seq No: **10087074**	
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)	126.8	3.00	125.0		101	90	110				

Sample ID: **2012N58-005BDUP**	Client ID: **GWC-14R**				Units: **mg/L**		Prep Date:		Run No: **442641**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R442641**		Analysis Date: **12/21/2020**		Seq No: **10087076**	
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)	141.7	3.00						142.7	0.717	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 County- Hightower Road Landfill
Workorder: 2012N58

ANALYTICAL QC SUMMARY REPORT

BatchID: R443010

Sample ID: **MB-R443010** Client ID: Units: **mg/L** Prep Date: Run No: **443010**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R443010** Analysis Date: **12/18/2020** Seq No: **10097477**

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-R443010** Client ID: Units: **mg/L** Prep Date: Run No: **443010**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R443010** Analysis Date: **12/18/2020** Seq No: **10097476**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.790	1.0	10.00		97.9	90	110				
Nitrate	5.224	0.25	5.000		104	90	110				
Sulfate	25.75	1.0	25.00		103	90	110				

Sample ID: **2012M02-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **443010**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R443010** Analysis Date: **12/18/2020** Seq No: **10097483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.46	1.0	10.00	1.366	90.9	90	110				
Nitrate	5.156	0.25	5.000		103	90	110				
Sulfate	28.03	1.0	25.00	2.966	100	90	110				

Sample ID: **2012M02-001AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **443010**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R443010** Analysis Date: **12/18/2020** Seq No: **10097484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.54	1.0	10.00	1.366	91.7	90	110	10.46	0.763	20	
Nitrate	5.190	0.25	5.000		104	90	110	5.156	0.672	20	
Sulfate	28.36	1.0	25.00	2.966	102	90	110	28.03	1.16	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		

End of Report

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 29, 2020

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County- Hightower Road Landfill

Dear Charles Adams: Order No: 2012P07

Analytical Environmental Services, Inc. received 19 samples on 12/22/2020 9:55:00 AM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/20-06/30/21.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/21 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-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

Jessica Shilling

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive Atlanta GA 30340- 3906
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2012007

Date: 12-22-20 Page 1 of 2

COMPANY: Atlantic Coast Consulting, INC

ADDRESS: 1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076

PHONE: 770-594-5998

FAX:

SAMPLED BY: HA / TJ

SIGNATURE: H. Adl

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity	REMARKS	No # of Containers
1	PH1-GWA-3A	12-18-20	1305	✓		GW	✓	✓			3
2	PH1-GWA-1A	12-18-20	1045	✓		GW	✓	✓			3
3	GWC-22	12-18	0850	✓		GW		✓			1
4	GWC-14	12-18	0900	✓		GW		✓			1
5	GWC-9	12-18	0905	✓		GW		✓			1
6	GWC-7	12-18	0915	✓		GW		✓			1
7	GWC-6	12-18	0925	✓		GW		✓			1
8	GWC-5	12-18	0930	✓		GW		✓			1
9	PH1-GWC-4	12-18	1020	✓		GW		✓			1
10	AMW-9	12-18	1030	✓		GW		✓			1
11	PH1-GWB-2	12-18	1035	✓		GW		✓			1
12	PH1-GWB-1	12-18	1005	✓		GW		✓			1
13	GWC-4	12-18	0935	✓		GW		✓			1
14	GWA-1	12-18	1250	✓		GW		✓			1

PRESERVATION (See codes)

RELINQUISHED BY / DATE/TIME
1: H. Adl 12-22/0955
2:
3:

RECEIVED BY / DATE/TIME
1: 12-22-20 0955 AM
2:
3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
☑ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER_____

PROJECT INFORMATION
PROJECT NAME: Forsyth County - Hightower Road Landfill
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Charles Adams
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
☑ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water 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

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2012P07

Date: 12-22-20 Page 2 of 2

COMPANY:	ADDRESS:
Atlantic Coast Consulting, INC	1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076
PHONE: 770-594-5998	FAX:
SAMPLED BY: HA/TJ	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	App I VOC	App I Metals	No3, Cl, SO4/TDS/Alkalinity										No # of Containers
							PRESERVATION (See codes)												REMARKS
1	GWA-2	12-18	1450	✓		GW		✓											1
2	PH1-GWC-1	12-18	1060	✓		GW		✓											1
3	GWC-4A	12-18	1360	✓		GW		✓											1
4	Trip Blank	—	—	✓		GW	✓												2
5	GWC-12	12-22	0900	✓		GW		✓											1
6				✓		GW													
7				✓		GW													
8				✓		GW													
9				✓		GW													
10				✓		GW													
11				✓		GW													
12				✓		GW													
13				✓		GW													
14				✓		GW													

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	12-22/0955	1:	12-22-20 9:55 AM
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☑ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER

☐ GREYHOUND ☐ OTHER_____

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Charles Adams

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time Request

☑ Standard 5 Business Days

☐ 2 Business Day Rush

☐ Next Business Day Rush

☐ Same Day Rush (auth req.)

☐ Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water 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

Analytical Environmental Services, Inc

Date: 29-Dec-20

Client: Atlantic Coast Consulting, Inc.
Project: Forsyth County- Hightower Road Landfill
Lab ID: 2012P07

Case Narrative

Sample Receiving Nonconformance:

Sample 2012P07-021A [GWC-4A] was received but was not listed on the Chain of Custody. Per Betsy McDaniel via email on 12/22/2020 at 11:10 AM, leave the additional sample on hold.

Sample 2012P07-015A listed the collection time as 9:50 rather than 14:50. The sample was logged in using the information provided on the Chain of Custody.

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 1:05:00 PM
Lab ID:	2012P07-001	**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	308026	1	12/25/2020 03:54	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
2-Butanone	BRL	100		ug/L	308026	1	12/25/2020 03:54	ZH
2-Hexanone	BRL	50		ug/L	308026	1	12/25/2020 03:54	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	308026	1	12/25/2020 03:54	ZH
Acetone	BRL	100		ug/L	308026	1	12/25/2020 03:54	ZH
Acrylonitrile	BRL	50		ug/L	308026	1	12/25/2020 03:54	ZH
Benzene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Bromochloromethane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Bromodichloromethane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Bromoform	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Bromomethane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Carbon disulfide	BRL	5.0		ug/L	308026	1	12/25/2020 03:54	ZH
Carbon tetrachloride	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Chlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Chloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Chloroform	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Chloromethane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Dibromochloromethane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Dibromomethane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Ethylbenzene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Iodomethane	BRL	100		ug/L	308026	1	12/25/2020 03:54	ZH
Methylene chloride	BRL	5.0		ug/L	308026	1	12/25/2020 03:54	ZH
Styrene	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Tetrachloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Toluene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	308026	1	12/25/2020 03:54	ZH
Trichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 03:54	ZH
Trichlorofluoromethane	BRL	10		ug/L	308026	1	12/25/2020 03:54	ZH
Vinyl acetate	BRL	100		ug/L	308026	1	12/25/2020 03:54	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-3A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 1:05:00 PM
Lab ID:	2012P07-001	**Matrix:**	Groundwater

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	308026	1	12/25/2020 03:54	ZH
Xylenes, Total	BRL	5.0		ug/L	308026	1	12/25/2020 03:54	ZH
Surr: 4-Bromofluorobenzene	102	74.9-127		%REC	308026	1	12/25/2020 03:54	ZH
Surr: Dibromofluoromethane	104	78.9-121		%REC	308026	1	12/25/2020 03:54	ZH
Surr: Toluene-d8	105	81.5-120		%REC	308026	1	12/25/2020 03:54	ZH
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307917	1	12/24/2020 23:29	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/24/2020 23:29	AS
Barium	BRL	0.0200		mg/L	307917	1	12/24/2020 23:29	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/24/2020 23:29	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/24/2020 23:29	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/24/2020 23:29	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/24/2020 23:29	AS
Copper	BRL	0.0200		mg/L	307917	1	12/24/2020 23:29	AS
Lead	BRL	0.0150		mg/L	307917	1	12/24/2020 23:29	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/24/2020 23:29	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/24/2020 23:29	AS
Silver	BRL	0.0100		mg/L	307917	1	12/24/2020 23:29	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/24/2020 23:29	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/24/2020 23:29	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/24/2020 23:29	AS

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-1A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 10:45:00 AM
Lab ID:	2012P07-002	**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	308026	1	12/25/2020 04:18	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
2-Butanone	BRL	100		ug/L	308026	1	12/25/2020 04:18	ZH
2-Hexanone	BRL	50		ug/L	308026	1	12/25/2020 04:18	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	308026	1	12/25/2020 04:18	ZH
Acetone	BRL	100		ug/L	308026	1	12/25/2020 04:18	ZH
Acrylonitrile	BRL	50		ug/L	308026	1	12/25/2020 04:18	ZH
Benzene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Bromochloromethane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Bromodichloromethane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Bromoform	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Bromomethane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Carbon disulfide	BRL	5.0		ug/L	308026	1	12/25/2020 04:18	ZH
Carbon tetrachloride	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Chlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Chloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Chloroform	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Chloromethane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Dibromochloromethane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Dibromomethane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Ethylbenzene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Iodomethane	BRL	100		ug/L	308026	1	12/25/2020 04:18	ZH
Methylene chloride	BRL	5.0		ug/L	308026	1	12/25/2020 04:18	ZH
Styrene	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Tetrachloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Toluene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	308026	1	12/25/2020 04:18	ZH
Trichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 04:18	ZH
Trichlorofluoromethane	BRL	10		ug/L	308026	1	12/25/2020 04:18	ZH
Vinyl acetate	BRL	100		ug/L	308026	1	12/25/2020 04:18	ZH

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-1A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 10:45:00 AM
Lab ID:	2012P07-002	**Matrix:**	Groundwater

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	308026	1	12/25/2020 04:18	ZH
Xylenes, Total	BRL	5.0		ug/L	308026	1	12/25/2020 04:18	ZH
Surr: 4-Bromofluorobenzene	102	74.9-127		%REC	308026	1	12/25/2020 04:18	ZH
Surr: Dibromofluoromethane	105	78.9-121		%REC	308026	1	12/25/2020 04:18	ZH
Surr: Toluene-d8	104	81.5-120		%REC	308026	1	12/25/2020 04:18	ZH
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	307917	1	12/25/2020 00:01	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:01	AS
Barium	0.0274	0.0200		mg/L	307917	1	12/25/2020 00:01	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:01	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:01	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:01	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:01	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:01	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:01	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:01	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:01	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:01	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:01	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:01	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:01	AS

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:**	GWC-22
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 8:50:00 AM
Lab ID:	2012P07-003	**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	307917	1	12/25/2020 00:05	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:05	AS
Barium	0.0204	0.0200		mg/L	307917	1	12/25/2020 00:05	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:05	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:05	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:05	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:05	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:05	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:05	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:05	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:05	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:05	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:05	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:05	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:05	AS

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:**	GWC-14
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 9:00:00 AM
Lab ID:	2012P07-004	**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	307917	1	12/25/2020 00:08	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:08	AS
Barium	0.0722	0.0200		mg/L	307917	1	12/25/2020 00:08	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:08	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:08	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:08	AS
Cobalt	0.0555	0.0400		mg/L	307917	1	12/25/2020 00:08	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:08	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:08	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:08	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:08	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:08	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:08	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:08	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:08	AS

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:**	GWC-9
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 9:05:00 AM
Lab ID:	2012P07-005	**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	307917	1	12/25/2020 00:12	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:12	AS
Barium	0.0900	0.0200		mg/L	307917	1	12/25/2020 00:12	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:12	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:12	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:12	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:12	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:12	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:12	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:12	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:12	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:12	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:12	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:12	AS
Zinc	0.0419	0.0200		mg/L	307917	1	12/25/2020 00:12	AS

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:**	GWC-7
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 9:15:00 AM
Lab ID:	2012P07-006	**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	307917	1	12/25/2020 00:15	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:15	AS
Barium	0.0388	0.0200		mg/L	307917	1	12/25/2020 00:15	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:15	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:15	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:15	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:15	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:15	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:15	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:15	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:15	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:15	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:15	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:15	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:15	AS

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:**	GWC-6
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 9:25:00 AM
Lab ID:	2012P07-007	**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	307917	1	12/25/2020 00:19	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:19	AS
Barium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:19	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:19	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:19	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:19	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:19	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:19	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:19	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:19	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:19	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:19	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:19	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:19	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:19	AS

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:**	GWC-5
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 9:30:00 AM
Lab ID:	2012P07-008	**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	307917	1	12/25/2020 00:22	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:22	AS
Barium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:22	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:22	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:22	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:22	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:22	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:22	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:22	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:22	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:22	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:22	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:22	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:22	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:22	AS

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:**	PH1-GWC-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 10:20:00 AM
Lab ID:	2012P07-009	**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	307917	1	12/25/2020 00:26	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:26	AS
Barium	0.0564	0.0200		mg/L	307917	1	12/25/2020 00:26	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:26	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:26	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:26	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:26	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:26	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:26	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:26	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:26	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:26	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:26	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:26	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:26	AS

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:**	AMW-9
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 10:30:00 AM
Lab ID:	2012P07-010	**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	307917	1	12/25/2020 00:30	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:30	AS
Barium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:30	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:30	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:30	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:30	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:30	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:30	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:30	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:30	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:30	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:30	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:30	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:30	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:30	AS

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:**	PH1-GWB-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 10:35:00 AM
Lab ID:	2012P07-011	**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	307917	1	12/25/2020 00:33	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:33	AS
Barium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:33	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:33	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:33	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:33	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:33	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:33	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:33	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:33	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:33	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:33	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:33	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:33	AS
Zinc	0.0216	0.0200		mg/L	307917	1	12/25/2020 00:33	AS

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:**	PH1-GWB-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 10:05:00 AM
Lab ID:	2012P07-012	**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	307917	1	12/25/2020 00:51	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:51	AS
Barium	0.0505	0.0200		mg/L	307917	1	12/25/2020 00:51	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:51	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:51	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:51	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:51	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:51	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:51	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:51	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:51	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:51	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:51	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:51	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:51	AS

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:**	GWC-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 9:35:00 AM
Lab ID:	2012P07-013	**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	307917	1	12/25/2020 00:55	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:55	AS
Barium	0.0315	0.0200		mg/L	307917	1	12/25/2020 00:55	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:55	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:55	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:55	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:55	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:55	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:55	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:55	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:55	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:55	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:55	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:55	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 00:55	AS

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:**	GWA-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 12:50:00 PM
Lab ID:	2012P07-014	**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	307917	1	12/25/2020 00:58	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 00:58	AS
Barium	0.0270	0.0200		mg/L	307917	1	12/25/2020 00:58	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 00:58	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 00:58	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:58	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 00:58	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 00:58	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 00:58	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 00:58	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 00:58	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 00:58	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 00:58	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 00:58	AS
Zinc	0.0211	0.0200		mg/L	307917	1	12/25/2020 00:58	AS

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:**	GWA-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 2:50:00 PM
Lab ID:	2012P07-015	**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	307917	1	12/25/2020 01:02	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 01:02	AS
Barium	0.0220	0.0200		mg/L	307917	1	12/25/2020 01:02	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 01:02	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 01:02	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:02	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 01:02	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 01:02	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 01:02	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 01:02	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:02	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 01:02	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 01:02	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 01:02	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 01:02	AS

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:**	PH1-GWC-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 10:10:00 AM
Lab ID:	2012P07-016	**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	307917	1	12/25/2020 01:05	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 01:05	AS
Barium	0.0321	0.0200		mg/L	307917	1	12/25/2020 01:05	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 01:05	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 01:05	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:05	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 01:05	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 01:05	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 01:05	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 01:05	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:05	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 01:05	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 01:05	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 01:05	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 01:05	AS

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:**	GWC-4A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020 1:10:00 PM
Lab ID:	2012P07-017	**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	307917	1	12/25/2020 01:09	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 01:09	AS
Barium	0.0305	0.0200		mg/L	307917	1	12/25/2020 01:09	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 01:09	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 01:09	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:09	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 01:09	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 01:09	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 01:09	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 01:09	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:09	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 01:09	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 01:09	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 01:09	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 01:09	AS

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:**	12/18/2020
Lab ID:	2012P07-018	**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	308026	1	12/25/2020 01:02	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
2-Butanone	BRL	100		ug/L	308026	1	12/25/2020 01:02	ZH
2-Hexanone	BRL	50		ug/L	308026	1	12/25/2020 01:02	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	308026	1	12/25/2020 01:02	ZH
Acetone	BRL	100		ug/L	308026	1	12/25/2020 01:02	ZH
Acrylonitrile	BRL	50		ug/L	308026	1	12/25/2020 01:02	ZH
Benzene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Bromochloromethane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Bromodichloromethane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Bromoform	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Bromomethane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Carbon disulfide	BRL	5.0		ug/L	308026	1	12/25/2020 01:02	ZH
Carbon tetrachloride	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Chlorobenzene	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Chloroethane	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Chloroform	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Chloromethane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Dibromochloromethane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Dibromomethane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Ethylbenzene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Iodomethane	BRL	100		ug/L	308026	1	12/25/2020 01:02	ZH
Methylene chloride	BRL	5.0		ug/L	308026	1	12/25/2020 01:02	ZH
Styrene	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Tetrachloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Toluene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	308026	1	12/25/2020 01:02	ZH
Trichloroethene	BRL	2.0		ug/L	308026	1	12/25/2020 01:02	ZH
Trichlorofluoromethane	BRL	10		ug/L	308026	1	12/25/2020 01:02	ZH
Vinyl acetate	BRL	100		ug/L	308026	1	12/25/2020 01:02	ZH

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

Analytical Environmental Services, Inc **Date:** 29-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/18/2020
Lab ID:	2012P07-018	**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	308026	1	12/25/2020 01:02	ZH
Xylenes, Total	BRL	5.0		ug/L	308026	1	12/25/2020 01:02	ZH
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	308026	1	12/25/2020 01:02	ZH
Surr: Dibromofluoromethane	104	78.9-121		%REC	308026	1	12/25/2020 01:02	ZH
Surr: Toluene-d8	105	81.5-120		%REC	308026	1	12/25/2020 01:02	ZH

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:**	GWC-12
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/22/2020 9:00:00 AM
Lab ID:	2012P07-019	**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	307917	1	12/25/2020 01:12	AS
Arsenic	BRL	0.0100		mg/L	307917	1	12/25/2020 01:12	AS
Barium	0.0226	0.0200		mg/L	307917	1	12/25/2020 01:12	AS
Beryllium	BRL	0.00300		mg/L	307917	1	12/25/2020 01:12	AS
Cadmium	BRL	0.00500		mg/L	307917	1	12/25/2020 01:12	AS
Chromium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:12	AS
Cobalt	BRL	0.0400		mg/L	307917	1	12/25/2020 01:12	AS
Copper	BRL	0.0200		mg/L	307917	1	12/25/2020 01:12	AS
Lead	BRL	0.0150		mg/L	307917	1	12/25/2020 01:12	AS
Nickel	BRL	0.0200		mg/L	307917	1	12/25/2020 01:12	AS
Selenium	BRL	0.0100		mg/L	307917	1	12/25/2020 01:12	AS
Silver	BRL	0.0100		mg/L	307917	1	12/25/2020 01:12	AS
Thallium	BRL	0.00200		mg/L	307917	1	12/25/2020 01:12	AS
Vanadium	BRL	0.0200		mg/L	307917	1	12/25/2020 01:12	AS
Zinc	BRL	0.0200		mg/L	307917	1	12/25/2020 01:12	AS

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

Clear | Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC. AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.** AES Work Order Number: **2012P07**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 0.1 °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). BH 12/22/20

		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 ☐ illegible ☐ no label ☐ other ■	
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 ■ samples listed on COC not received ☐	
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 ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). BH 12/22/20

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

		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?	○	○	◉		

* 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. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). BH 12/22/20

Locked

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2012P07

ANALYTICAL QC SUMMARY REPORT

BatchID: 307917

Sample ID: **MB-307917** Client ID: Units: **mg/L** Prep Date: **12/23/2020** Run No: **443109**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307917** Analysis Date: **12/24/2020** Seq No: **10100495**

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-307917** Client ID: Units: **mg/L** Prep Date: **12/23/2020** Run No: **443109**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307917** Analysis Date: **12/24/2020** Seq No: **10100496**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1043	0.00600	0.1000		104	80	120				
Arsenic	0.1012	0.0100	0.1000		101	80	120				
Barium	0.1056	0.0200	0.1000		106	80	120				
Beryllium	0.1099	0.00400	0.1000		110	80	120				
Cadmium	0.09753	0.00500	0.1000		97.5	80	120				
Chromium	0.09672	0.0200	0.1000		96.7	80	120				
Cobalt	0.09836	0.0500	0.1000		98.4	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 County- Hightower Road Landfill
Workorder: 2012P07

ANALYTICAL QC SUMMARY REPORT

BatchID: 307917

Sample ID: **LCS-307917** Client ID: Units: **mg/L** Prep Date: **12/23/2020** Run No: **443109**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307917** Analysis Date: **12/24/2020** Seq No: **10100496**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09516	0.0200	0.1000		95.2	80	120				
Lead	0.1020	0.0100	0.1000		102	80	120				
Nickel	0.09817	0.0400	0.1000		98.2	80	120				
Selenium	0.09611	0.0500	0.1000		96.1	80	120				
Silver	0.01027	0.00500	0.0100		103	80	120				
Thallium	0.1065	0.00200	0.1000		106	80	120				
Vanadium	0.09957	0.0500	0.1000		99.6	80	120				
Zinc	0.09694	0.0200	0.1000		96.9	80	120				

Sample ID: **2012P07-001BMS** Client ID: **PH1-GWA-3A** Units: **mg/L** Prep Date: **12/23/2020** Run No: **443109**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307917** Analysis Date: **12/24/2020** Seq No: **10100498**

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	0.09691	0.0100	0.1000		96.9	75	125				
Barium	0.1161	0.0200	0.1000	0.01549	101	75	125				
Beryllium	0.1049	0.00400	0.1000		105	75	125				
Cadmium	0.09855	0.00500	0.1000		98.6	75	125				
Chromium	0.09519	0.0200	0.1000		95.2	75	125				
Cobalt	0.09702	0.0500	0.1000		97.0	75	125				
Copper	0.09492	0.0200	0.1000		94.9	75	125				
Lead	0.1015	0.0100	0.1000		102	75	125				
Nickel	0.09497	0.0400	0.1000	0.0007731	94.2	75	125				
Selenium	0.09302	0.0500	0.1000		93.0	75	125				
Silver	0.01004	0.00500	0.0100		100	75	125				
Thallium	0.1041	0.00200	0.1000		104	75	125				
Vanadium	0.09657	0.0500	0.1000		96.6	75	125				
Zinc	0.09237	0.0200	0.1000		92.4	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 County- Hightower Road Landfill
Workorder: 2012P07

ANALYTICAL QC SUMMARY REPORT

BatchID: 307917

Sample ID: **2012P07-001BMSD** Client ID: **PH1-GWA-3A** Units: **mg/L** Prep Date: **12/23/2020** Run No: **443109**
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **307917** Analysis Date: **12/24/2020** Seq No: **10100499**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1010	0.00600	0.1000		101	75	125	0.1035	2.44	20	
Arsenic	0.09747	0.0100	0.1000		97.5	75	125	0.09691	0.573	20	
Barium	0.1190	0.0200	0.1000	0.01549	104	75	125	0.1161	2.46	20	
Beryllium	0.1062	0.00400	0.1000		106	75	125	0.1049	1.26	20	
Cadmium	0.09980	0.00500	0.1000		99.8	75	125	0.09855	1.26	20	
Chromium	0.09542	0.0200	0.1000		95.4	75	125	0.09519	0.246	20	
Cobalt	0.09662	0.0500	0.1000		96.6	75	125	0.09702	0.413	20	
Copper	0.09397	0.0200	0.1000		94.0	75	125	0.09492	1.01	20	
Lead	0.1022	0.0100	0.1000		102	75	125	0.1015	0.625	20	
Nickel	0.09550	0.0400	0.1000	0.0007731	94.7	75	125	0.09497	0.557	20	
Selenium	0.09110	0.0500	0.1000		91.1	75	125	0.09302	2.09	20	
Silver	0.01042	0.00500	0.0100		104	75	125	0.01004	3.65	20	
Thallium	0.1093	0.00200	0.1000		109	75	125	0.1041	4.86	20	
Vanadium	0.09847	0.0500	0.1000		98.5	75	125	0.09657	1.94	20	
Zinc	0.09068	0.0200	0.1000		90.7	75	125	0.09237	1.85	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 County- Hightower Road Landfill
Workorder: 2012P07

ANALYTICAL QC SUMMARY REPORT

BatchID: 308026

Sample ID: **MB-308026** Client ID: Units: **ug/L** Prep Date: **12/24/2020** Run No: **443073**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **308026** Analysis Date: **12/24/2020** Seq No: **10100748**

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: 2012P07

ANALYTICAL QC SUMMARY REPORT

BatchID: 308026

Sample ID: **MB-308026** Client ID: Units: **ug/L** Prep Date: **12/24/2020** Run No: **443073**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **308026** Analysis Date: **12/24/2020** Seq No: **10100748**

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	50.15	0	50.00		100	74.9	127				
Surr: Dibromofluoromethane	52.42	0	50.00		105	78.9	121				
Surr: Toluene-d8	53.00	0	50.00		106	81.5	120				

Sample ID: **LCS-308026** Client ID: Units: **ug/L** Prep Date: **12/24/2020** Run No: **443073**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **308026** Analysis Date: **12/24/2020** Seq No: **10100747**

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: 2012P07

ANALYTICAL QC SUMMARY REPORT

BatchID: 308026

Sample ID: **LCS-308026**	Client ID:		Units: **ug/L**	Prep Date: **12/24/2020**	Run No: **443073**
SampleType: **LCS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **308026**	Analysis Date: **12/24/2020**	Seq No: **10100747**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57.95	5.0	50.00		116	69.2	141				
Benzene	60.78	5.0	50.00		122	72.3	126				
Chlorobenzene	57.29	5.0	50.00		115	73.3	135				
Toluene	59.78	5.0	50.00		120	70.5	128				
Trichloroethene	56.28	5.0	50.00		113	70.3	133				
Surr: 4-Bromofluorobenzene	51.57	0	50.00		103	74.9	127				
Surr: Dibromofluoromethane	51.76	0	50.00		104	78.9	121				
Surr: Toluene-d8	53.10	0	50.00		106	81.5	120				

Sample ID: **2012P40-002AMS**	Client ID:		Units: **ug/L**	Prep Date: **12/24/2020**	Run No: **443073**
SampleType: **MS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **308026**	Analysis Date: **12/26/2020**	Seq No: **10100848**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.69	5.0	50.00		103	63.8	146				
Benzene	53.14	5.0	50.00		106	70.2	137				
Chlorobenzene	51.11	5.0	50.00		102	72.7	141				
Toluene	52.73	5.0	50.00		105	67	141				
Trichloroethene	54.36	5.0	50.00	1.690	105	69.3	141				
Surr: 4-Bromofluorobenzene	49.73	0	50.00		99.5	74.9	127				
Surr: Dibromofluoromethane	51.82	0	50.00		104	78.9	121				
Surr: Toluene-d8	51.87	0	50.00		104	81.5	120				

Sample ID: **2012P40-002AMSD**	Client ID:		Units: **ug/L**	Prep Date: **12/24/2020**	Run No: **443073**
SampleType: **MSD**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **308026**	Analysis Date: **12/26/2020**	Seq No: **10100849**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.38	5.0	50.00		96.8	63.8	146	51.69	6.62	20.8	
Benzene	50.08	5.0	50.00		100	70.2	137	53.14	5.93	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 County- Hightower Road Landfill
Workorder: 2012P07

ANALYTICAL QC SUMMARY REPORT

BatchID: 308026

Sample ID: **2012P40-002AMSD** Client ID:
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**
Units: **ug/L** Prep Date: **12/24/2020** Run No: **443073**
BatchID: **308026** Analysis Date: **12/26/2020** Seq No: **10100849**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	48.31	5.0	50.00		96.6	72.7	141	51.11	5.63	20	
Toluene	49.69	5.0	50.00		99.4	67	141	52.73	5.94	20	
Trichloroethene	50.10	5.0	50.00	1.690	96.8	69.3	141	54.36	8.16	17.9	
Surr: 4-Bromofluorobenzene	49.59	0	50.00		99.2	74.9	127	49.73	0	0	
Surr: Dibromofluoromethane	51.98	0	50.00		104	78.9	121	51.82	0	0	
Surr: Toluene-d8	51.62	0	50.00		103	81.5	120	51.87	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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 23, 2020

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County- Hightower Road Landfill

Dear Charles Adams: Order No: 2012J68

Analytical Environmental Services, Inc. received 12 samples on 12/16/2020 4:22:00 PM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/20-06/30/21.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/21 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.
-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

Jessica Shilling

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive Atlanta GA 30340- 3906

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2012J68

Date: 12-14-20 Page _____ of _____

COMPANY:	ADDRESS:
Atlantic Coast Consulting, INC	1150 Northmeadow Parkway, Suite 100 Roswell, GA 30076
PHONE: 770-594-5998	FAX:
SAMPLED BY: HA/TJ	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Chloride	SW Metals	Cyanide	TOC	COD	App I VOC								REMARKS	No # of Containers
	PRESERVATION (See codes)																				
1	SWA-1	12-14-20	1710	✓		SW	✓	✓	✓	✓	✓										6
2	SWA-2	12-14-20	1650	✓		SW	✓	✓	✓	✓	✓										6
3	SWC-1	12-14-20	1540	✓		SW	✓	✓	✓	✓	✓	✓									8
4	SWC-2	12-14-20	1630	✓		SW	✓	✓	✓	✓	✓										6
5	SWC-3	12-14-20	1640	✓		SW	✓	✓	✓	✓	✓										6
6	SWC-4	12-14-20	1610	✓		SW	✓	✓	✓	✓	✓	✓									7
7	SWC-4A	12-14-20	1605	✓		SW						✓									2
8	SWC-4B	12-14-20	1550	✓		SW						✓									2
9	BMD ~~SWC-5~~ SWC-5	12-14-20	1510	✓		SW	✓	✓	✓	✓	✓										6
10	SWC-6	12-14-20	1455	✓		SW	✓	✓	✓	✓	✓	✓									8
11	SWC-7	12-14-20	1530	✓		SW	✓	✓	✓	✓	✓	~~✓~~ BMD								NO VOCs	6
12	SWC-8	12-14-20	1525	✓		SW	✓	✓	✓	✓	✓										6
13																					
14																					

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

68 BMD

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:		1: 12-16 3:46	
2: 12-16 4:22		2: 12/16/20 4:22	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road Landfill

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Charles Adams

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time Request

- ☐ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☐ Next Business Day Rush
- ☐ Same Day Rush (auth req.)
- ☐ Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER

☐ GREYHOUND ☐ OTHER_____

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT 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 W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)

PRESERVATIVE CODES: H+l = Hydrochloric acid + ice I = Ice only N = Nitric acid S+l = Sulfuric acid + ice S/M+l = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWA-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 5:10:00 PM
Lab ID:	2012J68-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.35	1.00		mg/L	R442434	1	12/17/2020 21:44	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 10:44	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307638	1	12/18/2020 16:10	SK
Inorganic Anions by IC E300.0								
Chloride	3.57	0.500		mg/L	R442801	1	12/22/2020 12:26	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:23	KB
Barium	0.0280	0.0200		mg/L	307591	1	12/21/2020 15:23	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:23	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:23	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:23	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:23	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:23	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:23	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:23	KB

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWA-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 4:50:00 PM
Lab ID:	2012J68-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.12	1.00		mg/L	R442434	1	12/17/2020 22:03	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 10:53	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307638	1	12/18/2020 17:09	SK
Inorganic Anions by IC E300.0								
Chloride	2.23	0.500		mg/L	R442801	1	12/22/2020 12:37	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:26	KB
Barium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:26	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:26	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:26	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:26	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:26	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:26	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:26	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:26	KB

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-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 3:40:00 PM
Lab ID:	2012J68-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	4.03	1.00		mg/L	R442434	1	12/17/2020 23:21	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 10:54	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:28	SK
Inorganic Anions by IC E300.0								
Chloride	5.68	0.500		mg/L	R442801	1	12/22/2020 12:48	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
APPENDIX I VOLATILE ORGANICS SW8260D					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 09:26	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 09:26	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 09:26	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 09:26	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 09:26	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 09:26	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 09:26	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 09:26	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM

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
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>	Greater than Result value	J	Estimated value detected below Reporting Limit

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-1
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 3:40:00 PM
Lab ID:	2012J68-003	**Matrix:**	Surface Water

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	307781	1	12/21/2020 09:26	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 09:26	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 09:26	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 09:26	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 09:26	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 09:26	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 09:26	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 09:26	OM
Surr: 4-Bromofluorobenzene	90.4	74.9-127		%REC	307781	1	12/21/2020 09:26	OM
Surr: Dibromofluoromethane	93.6	78.9-121		%REC	307781	1	12/21/2020 09:26	OM
Surr: Toluene-d8	95.9	81.5-120		%REC	307781	1	12/21/2020 09:26	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:29	KB
Barium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:29	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:29	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:29	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:29	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:29	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:29	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:29	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:29	KB

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-2
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 4:30:00 PM
Lab ID:	2012J68-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.49	1.00		mg/L	R442434	1	12/17/2020 23:41	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 10:58	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:32	SK
Inorganic Anions by IC E300.0								
Chloride	3.60	0.500		mg/L	R442801	1	12/22/2020 12:59	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:32	KB
Barium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:32	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:32	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:32	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:32	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:32	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:32	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:32	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:32	KB

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-3
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 4:40:00 PM
Lab ID:	2012J68-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.40	1.00		mg/L	R442434	1	12/18/2020 00:00	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 11:10	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:36	SK
Inorganic Anions by IC E300.0								
Chloride	3.42	0.500		mg/L	R442801	1	12/22/2020 18:25	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:35	KB
Barium	0.0210	0.0200		mg/L	307591	1	12/21/2020 15:35	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:35	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:35	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:35	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:35	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:35	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:35	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:35	KB

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-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 4:10:00 PM
Lab ID:	2012J68-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.76	1.00		mg/L	R442434	1	12/18/2020 00:19	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 11:12	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:40	SK
Inorganic Anions by IC E300.0								
Chloride	3.84	0.500		mg/L	R442801	1	12/22/2020 13:10	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
APPENDIX I VOLATILE ORGANICS SW8260D					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 11:30	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 11:30	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 11:30	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 11:30	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 11:30	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 11:30	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 11:30	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 11:30	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM

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-4
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 4:10:00 PM
Lab ID:	2012J68-006	**Matrix:**	Surface Water

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	307781	1	12/21/2020 11:30	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 11:30	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 11:30	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 11:30	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 11:30	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 11:30	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 11:30	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 11:30	OM
Surr: 4-Bromofluorobenzene	92	74.9-127		%REC	307781	1	12/21/2020 11:30	OM
Surr: Dibromofluoromethane	95	78.9-121		%REC	307781	1	12/21/2020 11:30	OM
Surr: Toluene-d8	96.6	81.5-120		%REC	307781	1	12/21/2020 11:30	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:37	KB
Barium	0.0331	0.0200		mg/L	307591	1	12/21/2020 15:37	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:37	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:37	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:37	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:37	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:37	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:37	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:37	KB

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-4A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 4:05:00 PM
Lab ID:	2012J68-007	**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	307781	1	12/21/2020 10:15	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 10:15	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 10:15	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 10:15	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 10:15	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 10:15	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 10:15	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 10:15	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 10:15	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 10:15	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 10:15	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 10:15	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 10:15	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 10:15	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 10:15	OM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-4A
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 4:05:00 PM
Lab ID:	2012J68-007	**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	307781	1	12/21/2020 10:15	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 10:15	OM
Surr: 4-Bromofluorobenzene	91.2	74.9-127		%REC	307781	1	12/21/2020 10:15	OM
Surr: Dibromofluoromethane	93.2	78.9-121		%REC	307781	1	12/21/2020 10:15	OM
Surr: Toluene-d8	94.6	81.5-120		%REC	307781	1	12/21/2020 10:15	OM

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-4B
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 3:50:00 PM
Lab ID:	2012J68-008	**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	307781	1	12/21/2020 11:54	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 11:54	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 11:54	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 11:54	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 11:54	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 11:54	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 11:54	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 11:54	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 11:54	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 11:54	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 11:54	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 11:54	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:54	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 11:54	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 11:54	OM

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

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-4B
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 3:50:00 PM
Lab ID:	2012J68-008	**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	307781	1	12/21/2020 11:54	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 11:54	OM
Surr: 4-Bromofluorobenzene	92.7	74.9-127		%REC	307781	1	12/21/2020 11:54	OM
Surr: Dibromofluoromethane	95	78.9-121		%REC	307781	1	12/21/2020 11:54	OM
Surr: Toluene-d8	95.7	81.5-120		%REC	307781	1	12/21/2020 11:54	OM

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-5
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 3:10:00 PM
Lab ID:	2012J68-009	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	6.22	1.00		mg/L	R442434	1	12/18/2020 00:38	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 11:15	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:44	SK
Inorganic Anions by IC E300.0								
Chloride	10.4	0.500		mg/L	R442801	1	12/22/2020 13:21	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	14.0	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:40	KB
Barium	0.0389	0.0200		mg/L	307591	1	12/21/2020 15:40	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:40	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:40	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:40	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:40	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:40	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:40	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:40	KB

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:**	12/14/2020 2:55:00 PM
Lab ID:	2012J68-010	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	4.45	1.00		mg/L	R442434	1	12/18/2020 00:58	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 11:17	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:48	SK
Inorganic Anions by IC E300.0								
Chloride	14.8	0.500		mg/L	R442801	1	12/22/2020 13:32	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
APPENDIX I VOLATILE ORGANICS SW8260D					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,1-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,1-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,2,3-Trichloropropane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	307781	1	12/21/2020 11:05	OM
1,2-Dibromoethane	BRL	1.0		ug/L	307781	1	12/21/2020 11:05	OM
1,2-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
1,2-Dichloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,2-Dichloropropane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
1,4-Dichlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
2-Butanone	BRL	100		ug/L	307781	1	12/21/2020 11:05	OM
2-Hexanone	BRL	50		ug/L	307781	1	12/21/2020 11:05	OM
4-Methyl-2-pentanone	BRL	50		ug/L	307781	1	12/21/2020 11:05	OM
Acetone	BRL	100		ug/L	307781	1	12/21/2020 11:05	OM
Acrylonitrile	BRL	50		ug/L	307781	1	12/21/2020 11:05	OM
Benzene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Bromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Bromodichloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Bromoform	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Bromomethane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Carbon disulfide	BRL	5.0		ug/L	307781	1	12/21/2020 11:05	OM
Carbon tetrachloride	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Chlorobenzene	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Chloroethane	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Chloroform	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Chloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
cis-1,2-Dichloroethene	2.7	2.0		ug/L	307781	1	12/21/2020 11:05	OM

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:**	12/14/2020 2:55:00 PM
Lab ID:	2012J68-010	**Matrix:**	Surface Water

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	307781	1	12/21/2020 11:05	OM
Dibromochloromethane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Dibromomethane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Ethylbenzene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Iodomethane	BRL	100		ug/L	307781	1	12/21/2020 11:05	OM
Methylene chloride	BRL	5.0		ug/L	307781	1	12/21/2020 11:05	OM
Styrene	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Tetrachloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Toluene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	307781	1	12/21/2020 11:05	OM
Trichloroethene	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Trichlorofluoromethane	BRL	10		ug/L	307781	1	12/21/2020 11:05	OM
Vinyl acetate	BRL	100		ug/L	307781	1	12/21/2020 11:05	OM
Vinyl chloride	BRL	2.0		ug/L	307781	1	12/21/2020 11:05	OM
Xylenes, Total	BRL	5.0		ug/L	307781	1	12/21/2020 11:05	OM
Surr: 4-Bromofluorobenzene	92	74.9-127		%REC	307781	1	12/21/2020 11:05	OM
Surr: Dibromofluoromethane	92.4	78.9-121		%REC	307781	1	12/21/2020 11:05	OM
Surr: Toluene-d8	94	81.5-120		%REC	307781	1	12/21/2020 11:05	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:43	KB
Barium	0.0211	0.0200		mg/L	307591	1	12/21/2020 15:43	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:43	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:43	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:43	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:43	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:43	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:43	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:43	KB

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-7
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 3:30:00 PM
Lab ID:	2012J68-011	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	10.2	1.00		mg/L	R442434	1	12/18/2020 01:17	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 11:20	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:52	SK
Inorganic Anions by IC E300.0								
Chloride	6.07	0.500		mg/L	R442801	1	12/22/2020 13:43	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	23.1	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:52	KB
Barium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:52	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:52	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:52	KB
Lead	0.0298	0.0100		mg/L	307591	1	12/21/2020 15:52	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:52	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:52	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:52	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:52	KB

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

Analytical Environmental Services, Inc **Date:** 23-Dec-20

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-8
Project Name:	Forsyth County- Hightower Road Landfill	**Collection Date:**	12/14/2020 3:25:00 PM
Lab ID:	2012J68-012	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	16.8	1.00		mg/L	R442434	1	12/18/2020 01:36	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	307795	1	12/22/2020 11:33	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	307724	1	12/21/2020 20:56	SK
Inorganic Anions by IC E300.0								
Chloride	4.74	0.500		mg/L	R442801	1	12/22/2020 13:54	IP
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	48.0	10.0		mg/L	R442663	1	12/21/2020 19:15	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	307591	1	12/21/2020 15:55	KB
Barium	0.0244	0.0200		mg/L	307591	1	12/21/2020 15:55	KB
Cadmium	BRL	0.0050		mg/L	307591	1	12/21/2020 15:55	KB
Chromium	BRL	0.0100		mg/L	307591	1	12/21/2020 15:55	KB
Lead	BRL	0.0100		mg/L	307591	1	12/21/2020 15:55	KB
Nickel	BRL	0.0200		mg/L	307591	1	12/21/2020 15:55	KB
Selenium	BRL	0.0200		mg/L	307591	1	12/21/2020 15:55	KB
Silver	BRL	0.0100		mg/L	307591	1	12/21/2020 15:55	KB
Zinc	BRL	0.0200		mg/L	307591	1	12/21/2020 15:55	KB

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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.** AES Work Order Number: **2012J68**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ■ Other ____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
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 ☐	
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. ☐	

13. Cooler 1 Temperature 0.1 °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). ARS 12/16/20

		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 ☐ illegible ☐ no label ☐ other ☐	
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 ☐ samples listed on COC not received ☐	
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 ☐ not listed on COC ■	

27. Comments: ____

I certify that I have completed sections 16-27 (dated initials). MJ 12/16/20

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

		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?	○	○	●		

* 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. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). MJ 12/16/20

Locked

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012J68

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012J68-001A	SWA-1	12/14/2020 5:10:00PM	Surface Water	TOTAL MERCURY		12/18/2020 12:02:00PM	12/18/2020
2012J68-001A	SWA-1	12/14/2020 5:10:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-001A	SWA-1	12/14/2020 5:10:00PM	Surface Water	TOTAL MERCURY		12/18/2020 12:02:00PM	12/18/2020
2012J68-001B	SWA-1	12/14/2020 5:10:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-001C	SWA-1	12/14/2020 5:10:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-001D	SWA-1	12/14/2020 5:10:00PM	Surface Water	Total Cyanide		12/21/2020 2:30:00PM	12/22/2020
2012J68-001E	SWA-1	12/14/2020 5:10:00PM	Surface Water	Total Organic Carbon by SM5310B			12/17/2020
2012J68-002A	SWA-2	12/14/2020 4:50:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-002A	SWA-2	12/14/2020 4:50:00PM	Surface Water	TOTAL MERCURY		12/18/2020 12:02:00PM	12/18/2020
2012J68-002B	SWA-2	12/14/2020 4:50:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-002C	SWA-2	12/14/2020 4:50:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-002D	SWA-2	12/14/2020 4:50:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-002E	SWA-2	12/14/2020 4:50:00PM	Surface Water	Total Organic Carbon by SM5310B			12/17/2020
2012J68-003A	SWC-1	12/14/2020 3:40:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J68-003B	SWC-1	12/14/2020 3:40:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-003C	SWC-1	12/14/2020 3:40:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-003D	SWC-1	12/14/2020 3:40:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-003E	SWC-1	12/14/2020 3:40:00PM	Surface Water	Total Organic Carbon by SM5310B			12/17/2020
2012J68-003F	SWC-1	12/14/2020 3:40:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-003F	SWC-1	12/14/2020 3:40:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-004A	SWC-2	12/14/2020 4:30:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-004A	SWC-2	12/14/2020 4:30:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-004B	SWC-2	12/14/2020 4:30:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-004C	SWC-2	12/14/2020 4:30:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-004D	SWC-2	12/14/2020 4:30:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-004E	SWC-2	12/14/2020 4:30:00PM	Surface Water	Total Organic Carbon by SM5310B			12/17/2020
2012J68-005A	SWC-3	12/14/2020 4:40:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-005A	SWC-3	12/14/2020 4:40:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-005B	SWC-3	12/14/2020 4:40:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012J68

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012J68-005C	SWC-3	12/14/2020 4:40:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-005D	SWC-3	12/14/2020 4:40:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-005E	SWC-3	12/14/2020 4:40:00PM	Surface Water	Total Organic Carbon by SM5310B			12/18/2020
2012J68-006A	SWC-4	12/14/2020 4:10:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J68-006B	SWC-4	12/14/2020 4:10:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-006C	SWC-4	12/14/2020 4:10:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-006D	SWC-4	12/14/2020 4:10:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-006E	SWC-4	12/14/2020 4:10:00PM	Surface Water	Total Organic Carbon by SM5310B			12/18/2020
2012J68-006F	SWC-4	12/14/2020 4:10:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-006F	SWC-4	12/14/2020 4:10:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-007A	SWC-4A	12/14/2020 4:05:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J68-008A	SWC-4B	12/14/2020 3:50:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J68-009A	SWC-5	12/14/2020 3:10:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-009A	SWC-5	12/14/2020 3:10:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-009B	SWC-5	12/14/2020 3:10:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-009C	SWC-5	12/14/2020 3:10:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-009D	SWC-5	12/14/2020 3:10:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-009E	SWC-5	12/14/2020 3:10:00PM	Surface Water	Total Organic Carbon by SM5310B			12/18/2020
2012J68-010A	SWC-6	12/14/2020 2:55:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/21/2020 4:34:00AM	12/21/2020
2012J68-010B	SWC-6	12/14/2020 2:55:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-010C	SWC-6	12/14/2020 2:55:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-010D	SWC-6	12/14/2020 2:55:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-010E	SWC-6	12/14/2020 2:55:00PM	Surface Water	Total Organic Carbon by SM5310B			12/18/2020
2012J68-010F	SWC-6	12/14/2020 2:55:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-010F	SWC-6	12/14/2020 2:55:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-011A	SWC-7	12/14/2020 3:30:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-011A	SWC-7	12/14/2020 3:30:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-011B	SWC-7	12/14/2020 3:30:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-011C	SWC-7	12/14/2020 3:30:00PM	Surface Water	Inorganic Anions by IC			12/22/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Lab Order: 2012J68

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2012J68-011D	SWC-7	12/14/2020 3:30:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-011E	SWC-7	12/14/2020 3:30:00PM	Surface Water	Total Organic Carbon by SM5310B			12/18/2020
2012J68-012A	SWC-8	12/14/2020 3:25:00PM	Surface Water	TOTAL METALS BY ICP		12/18/2020 8:00:00AM	12/21/2020
2012J68-012A	SWC-8	12/14/2020 3:25:00PM	Surface Water	TOTAL MERCURY		12/21/2020 1:19:00PM	12/21/2020
2012J68-012B	SWC-8	12/14/2020 3:25:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2020
2012J68-012C	SWC-8	12/14/2020 3:25:00PM	Surface Water	Inorganic Anions by IC			12/22/2020
2012J68-012D	SWC-8	12/14/2020 3:25:00PM	Surface Water	Total Cyanide		12/21/2020 4:15:00PM	12/22/2020
2012J68-012E	SWC-8	12/14/2020 3:25:00PM	Surface Water	Total Organic Carbon by SM5310B			12/18/2020

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307591

Sample ID: **MB-307591** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442648**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **307591** Analysis Date: **12/21/2020** Seq No: **10087237**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500									
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-307591** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442648**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **307591** Analysis Date: **12/21/2020** Seq No: **10087238**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9022	0.0500	1.000		90.2	80	120				
Barium	0.9204	0.0200	1.000		92.0	80	120				
Cadmium	0.8950	0.0050	1.000		89.5	80	120				
Chromium	0.9126	0.0100	1.000		91.3	80	120				
Lead	0.8456	0.0100	1.000		84.6	80	120				
Nickel	0.9050	0.0200	1.000		90.5	80	120				
Selenium	0.8960	0.0200	1.000		89.6	80	120				
Silver	0.08889	0.0100	0.1000		88.9	80	120				
Zinc	0.8948	0.0200	1.000		89.5	80	120				

Sample ID: **2012G32-001DMS** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442648**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **307591** Analysis Date: **12/21/2020** Seq No: **10087240**

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: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307591

Sample ID: **2012G32-001DMS** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442648**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **307591** Analysis Date: **12/21/2020** Seq No: **10087240**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.8917	0.0500	1.000		89.2	75	125				
Barium	0.9459	0.0200	1.000	0.04855	89.7	75	125				
Cadmium	0.8820	0.0050	1.000		88.2	75	125				
Chromium	0.9031	0.0100	1.000		90.3	75	125				
Lead	0.8233	0.0100	1.000		82.3	75	125				
Nickel	0.8940	0.0200	1.000		89.4	75	125				
Selenium	0.8835	0.0200	1.000		88.4	75	125				
Silver	0.08776	0.0100	0.1000		87.8	75	125				
Zinc	1.805	0.0200	1.000	0.9888	81.6	75	125				

Sample ID: **2012G32-001DMSD** Client ID: Units: **mg/L** Prep Date: **12/18/2020** Run No: **442648**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **307591** Analysis Date: **12/21/2020** Seq No: **10087243**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.8731	0.0500	1.000		87.3	75	125	0.8917	2.10	20	
Barium	0.9250	0.0200	1.000	0.04855	87.6	75	125	0.9459	2.23	20	
Cadmium	0.8631	0.0050	1.000		86.3	75	125	0.8820	2.17	20	
Chromium	0.8834	0.0100	1.000		88.3	75	125	0.9031	2.21	20	
Lead	0.8035	0.0100	1.000		80.3	75	125	0.8233	2.43	20	
Nickel	0.8742	0.0200	1.000		87.4	75	125	0.8940	2.24	20	
Selenium	0.8655	0.0200	1.000		86.5	75	125	0.8835	2.07	20	
Silver	0.08543	0.0100	0.1000		85.4	75	125	0.08776	2.69	20	
Zinc	1.761	0.0200	1.000	0.9888	77.2	75	125	1.805	2.48	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307638

Sample ID: **MB-307638**	Client ID:			Units: **mg/L**	Prep Date: **12/18/2020**	Run No: **442554**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **307638**	Analysis Date: **12/18/2020**	Seq No: **10085149**

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-307638**	Client ID:			Units: **mg/L**	Prep Date: **12/18/2020**	Run No: **442554**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **307638**	Analysis Date: **12/18/2020**	Seq No: **10085150**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003878	0.00020	0.0040		97.0	80	120				

Sample ID: **2012J68-001AMS**	Client ID: **SWA-1**			Units: **mg/L**	Prep Date: **12/18/2020**	Run No: **442554**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **307638**	Analysis Date: **12/18/2020**	Seq No: **10085152**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003988	0.00020	0.0040		99.7	75	125				

Sample ID: **2012J68-001AMSD**	Client ID: **SWA-1**			Units: **mg/L**	Prep Date: **12/18/2020**	Run No: **442554**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **307638**	Analysis Date: **12/18/2020**	Seq No: **10085153**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004079	0.00020	0.0040		102	75	125	0.003988	2.26	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307724

Sample ID: **MB-307724**	Client ID:					Units: **mg/L**		Prep Date: **12/21/2020**		Run No: **442653**	
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**					BatchID: **307724**		Analysis Date: **12/21/2020**		Seq No: **10088289**	
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-307724**	Client ID:					Units: **mg/L**		Prep Date: **12/21/2020**		Run No: **442653**	
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**					BatchID: **307724**		Analysis Date: **12/21/2020**		Seq No: **10088290**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003494	0.00020	0.0040	0.00003900	86.4	80	120				

Sample ID: **2012H75-045BMS**	Client ID:					Units: **mg/L**		Prep Date: **12/21/2020**		Run No: **442653**	
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**					BatchID: **307724**		Analysis Date: **12/21/2020**		Seq No: **10088292**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003104	0.00020	0.0040	0.00003900	76.6	75	125				

Sample ID: **2012H75-045BMSD**	Client ID:					Units: **mg/L**		Prep Date: **12/21/2020**		Run No: **442653**	
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**					BatchID: **307724**		Analysis Date: **12/21/2020**		Seq No: **10088293**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003273	0.00020	0.0040	0.00003900	80.8	75	125	0.003104	5.30	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **MB-307781** Client ID: Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307781** Analysis Date: **12/21/2020** Seq No: **10086721**

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: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **MB-307781** Client ID: Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307781** Analysis Date: **12/21/2020** Seq No: **10086721**

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	46.30	0	50.00		92.6	74.9	127				
Surr: Dibromofluoromethane	47.98	0	50.00		96.0	78.9	121				
Surr: Toluene-d8	48.05	0	50.00		96.1	81.5	120				

Sample ID: **LCS-307781** Client ID: Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **307781** Analysis Date: **12/21/2020** Seq No: **10086720**

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: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **LCS-307781**	Client ID:		Units: **ug/L**	Prep Date: **12/21/2020**	Run No: **442619**
SampleType: **LCS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307781**	Analysis Date: **12/21/2020**	Seq No: **10086720**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.70	5.0	50.00		111	69.2	141				
Benzene	53.32	5.0	50.00		107	72.3	126				
Chlorobenzene	47.23	5.0	50.00		94.5	73.3	135				
Toluene	51.79	5.0	50.00		104	70.5	128				
Trichloroethene	48.55	5.0	50.00		97.1	70.3	133				
Surr: 4-Bromofluorobenzene	46.99	0	50.00		94.0	74.9	127				
Surr: Dibromofluoromethane	48.87	0	50.00		97.7	78.9	121				
Surr: Toluene-d8	48.04	0	50.00		96.1	81.5	120				

Sample ID: **2012J67-021AMS**	Client ID:		Units: **ug/L**	Prep Date: **12/21/2020**	Run No: **442619**
SampleType: **MS**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307781**	Analysis Date: **12/22/2020**	Seq No: **10091193**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.77	5.0	50.00		112	63.8	146				
Benzene	55.46	5.0	50.00	0.5200	110	70.2	137				
Chlorobenzene	48.55	5.0	50.00		97.1	72.7	141				
Toluene	52.63	5.0	50.00		105	67	141				
Trichloroethene	53.06	5.0	50.00	2.500	101	69.3	141				
Surr: 4-Bromofluorobenzene	46.04	0	50.00		92.1	74.9	127				
Surr: Dibromofluoromethane	47.58	0	50.00		95.2	78.9	121				
Surr: Toluene-d8	48.30	0	50.00		96.6	81.5	120				

Sample ID: **2012J67-021AMSD**	Client ID:		Units: **ug/L**	Prep Date: **12/21/2020**	Run No: **442619**
SampleType: **MSD**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **307781**	Analysis Date: **12/22/2020**	Seq No: **10091194**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.43	5.0	50.00		105	63.8	146	55.77	6.17	20.8	
Benzene	52.84	5.0	50.00	0.5200	105	70.2	137	55.46	4.84	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307781

Sample ID: **2012J67-021AMSD** Client ID:
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**
Units: **ug/L** Prep Date: **12/21/2020** Run No: **442619**
BatchID: **307781** Analysis Date: **12/22/2020** Seq No: **10091194**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	46.36	5.0	50.00		92.7	72.7	141	48.55	4.61	20	
Toluene	48.98	5.0	50.00		98.0	67	141	52.63	7.18	20	
Trichloroethene	50.70	5.0	50.00	2.500	96.4	69.3	141	53.06	4.55	17.9	
Surr: 4-Bromofluorobenzene	46.42	0	50.00		92.8	74.9	127	46.04	0	0	
Surr: Dibromofluoromethane	47.63	0	50.00		95.3	78.9	121	47.58	0	0	
Surr: Toluene-d8	47.64	0	50.00		95.3	81.5	120	48.30	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: 307795

Sample ID: **MB-307795** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442725**
SampleType: **MBLK** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **307795** Analysis Date: **12/22/2020** Seq No: **10089329**

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-307795** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442725**
SampleType: **LCS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **307795** Analysis Date: **12/22/2020** Seq No: **10089331**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.09900	0.010	0.1000		99.0	85	115				

Sample ID: **2012H75-049EMS** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442725**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **307795** Analysis Date: **12/22/2020** Seq No: **10089352**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.09200	0.010	0.1000		92.0	90	110				

Sample ID: **2012M71-001IMS** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442725**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **307795** Analysis Date: **12/22/2020** Seq No: **10089365**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1430	0.010	0.1000		143	90	110				S

Sample ID: **2012H75-049EMSD** Client ID: Units: **mg/L** Prep Date: **12/21/2020** Run No: **442725**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **307795** Analysis Date: **12/22/2020** Seq No: **10089337**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.09200	0.010	0.1000		92.0	90	110	0.09200	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: R442434

Sample ID: **MB-R442434**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **442434**
SampleType: **MBLK**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R442434**		Analysis Date: **12/17/2020**		Seq No: **10081148**

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-R442434**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **442434**
SampleType: **LCS**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R442434**		Analysis Date: **12/17/2020**		Seq No: **10081146**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.29	1.00	25.00		101	90	110				

Sample ID: **2012I45-002EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **442434**
SampleType: **MS**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R442434**		Analysis Date: **12/17/2020**		Seq No: **10081151**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	37.78	1.00	25.00	11.86	104	80	120				

Sample ID: **2012I45-002EMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **442434**
SampleType: **MSD**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R442434**		Analysis Date: **12/17/2020**		Seq No: **10081152**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	37.41	1.00	25.00	11.86	102	80	120	37.78	0.984	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: R442663

Sample ID: **MB-R442663**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **442663**
SampleType: **MBLK**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R442663**	Analysis Date: **12/21/2020**		Seq No: **10091534**

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-R442663**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **442663**
SampleType: **LCS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R442663**	Analysis Date: **12/21/2020**		Seq No: **10091536**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	486.4	10.0	500.0		97.3	90	110				

Sample ID: **2012J68-001BMS**	Client ID: **SWA-1**			Units: **mg/L**	Prep Date:		Run No: **442663**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R442663**	Analysis Date: **12/21/2020**		Seq No: **10091540**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	363.9	12.5	375.0		97.0	90	110				

Sample ID: **2012M31-002AMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **442663**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R442663**	Analysis Date: **12/21/2020**		Seq No: **10091567**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	383.7	12.5	375.0	23.05	96.2	90	110				

Sample ID: **2012J68-001BMSD**	Client ID: **SWA-1**			Units: **mg/L**	Prep Date:		Run No: **442663**
SampleType: **MSD**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R442663**	Analysis Date: **12/21/2020**		Seq No: **10091541**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	369.5	12.5	375.0		98.5	90	110	363.9	1.55	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 County- Hightower Road Landfill
Workorder: 2012J68

ANALYTICAL QC SUMMARY REPORT

BatchID: R442801

Sample ID: **MB-R442801**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **442801**
SampleType: **MBLK**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R442801**	Analysis Date: **12/22/2020**	Seq No: **10092123**

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-R442801**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **442801**
SampleType: **LCS**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R442801**	Analysis Date: **12/22/2020**	Seq No: **10092122**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.926	1.00	10.00		99.3	90	110				

Sample ID: **2012J68-001CMS**	Client ID: **SWA-1**			Units: **mg/L**	Prep Date:	Run No: **442801**
SampleType: **MS**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R442801**	Analysis Date: **12/22/2020**	Seq No: **10092136**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.45	1.00	10.00	3.565	88.8	90	110				S

Sample ID: **2012J68-002CMS**	Client ID: **SWA-2**			Units: **mg/L**	Prep Date:	Run No: **442801**
SampleType: **MS**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R442801**	Analysis Date: **12/22/2020**	Seq No: **10092138**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.57	1.00	10.00	2.230	103	90	110				

Sample ID: **2012J68-001CMSD**	Client ID: **SWA-1**			Units: **mg/L**	Prep Date:	Run No: **442801**
SampleType: **MSD**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R442801**	Analysis Date: **12/22/2020**	Seq No: **10092137**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.42	1.00	10.00	3.565	88.6	90	110	12.45	0.182	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		

End of Report

ATTACHMENT B

STATISTICAL ANALYSIS

Atlantic Coast Consulting, Inc.

STATISTICAL ANALYSIS:
Kruskal-Wallis Non-Parametric Test

Forsyth County - Hightower Road MSWLF - Phase I
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-2	FALSE	1%
1,1-Dichloroethane	PH1-GWB-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	1%
1,1-Dichloroethane	PH1-GWC-2	TRUE	1%
1,1-Dichloroethane	GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWB-2	FALSE	1%
1,1-Dichloroethane	PH1-GWC-1	FALSE	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	PH1-GWA-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-2	TRUE	0.45%
1,1-Dichloroethane	GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-1	FALSE	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%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	1%
cis-1,2-Dichloroethene	GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	1%
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	PH1-GWA-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	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	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.

Forsyth County - Hightower Road MSWLF - Phase I
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	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%
Tetrachloroethene	PH1-GWA-2	FALSE	1%
Tetrachloroethene	PH1-GWB-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1A	FALSE	1%
Tetrachloroethene	PH1-GWC-2	TRUE	1%
Tetrachloroethene	GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWB-2	FALSE	1%
Tetrachloroethene	PH1-GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWC-3	TRUE	1%
Tetrachloroethene	PH1-GWC-3A	TRUE	1%
Tetrachloroethene	PH1-GWC-4	FALSE	1%
Tetrachloroethene	PH1-GWA-2	FALSE	0.45%
Tetrachloroethene	PH1-GWB-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1A	FALSE	0.45%
Tetrachloroethene	PH1-GWC-2	TRUE	0.45%
Tetrachloroethene	GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWB-2	FALSE	0.45%
Tetrachloroethene	PH1-GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWC-3	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3A	TRUE	0.45%
Tetrachloroethene	PH1-GWC-4	FALSE	0.45%
Trichloroethene	PH1-GWA-2	TRUE	1%
Trichloroethene	PH1-GWB-1	FALSE	1%
Trichloroethene	PH1-GWA-1	FALSE	1%
Trichloroethene	PH1-GWA-1A	FALSE	1%
Trichloroethene	PH1-GWC-2	FALSE	1%
Trichloroethene	GWC-1	FALSE	1%
Trichloroethene	PH1-GWB-2	FALSE	1%
Trichloroethene	PH1-GWC-1	FALSE	1%
Trichloroethene	PH1-GWC-3	TRUE	1%
Trichloroethene	PH1-GWC-3A	TRUE	1%
Trichloroethene	PH1-GWC-4	FALSE	1%
Trichloroethene	PH1-GWA-2	TRUE	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 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWB-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1A	FALSE	0.45%
Trichloroethene	PH1-GWC-2	FALSE	0.45%
Trichloroethene	GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWB-2	FALSE	0.45%
Trichloroethene	PH1-GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWC-3	TRUE	0.45%
Trichloroethene	PH1-GWC-3A	TRUE	0.45%
Trichloroethene	PH1-GWC-4	FALSE	0.45%
Total Barium	PH1-GWA-1A	TRUE	1%
Total Barium	PH1-GWA-2	TRUE	1%
Total Barium	PH1-GWB-1	TRUE	1%
Total Barium	PH1-GWC-2	FALSE	1%
Total Barium	PH1-GWA-1	FALSE	1%
Total Barium	GWC-1	TRUE	1%
Total Barium	PH1-GWB-2	FALSE	1%
Total Barium	PH1-GWC-1	TRUE	1%
Total Barium	PH1-GWC-3	TRUE	1%
Total Barium	PH1-GWC-3A	TRUE	1%
Total Barium	PH1-GWC-4	TRUE	1%
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-GWC-2	FALSE	0.45%
Total Barium	PH1-GWA-1	FALSE	0.45%
Total Barium	GWC-1	TRUE	0.45%
Total Barium	PH1-GWB-2	FALSE	0.45%
Total Barium	PH1-GWC-1	TRUE	0.45%
Total Barium	PH1-GWC-3	TRUE	0.45%
Total Barium	PH1-GWC-3A	TRUE	0.45%
Total Barium	PH1-GWC-4	TRUE	0.45%
Total Chromium	PH1-GWA-1A	FALSE	1%
Total Chromium	PH1-GWA-2	FALSE	1%
Total Chromium	PH1-GWB-1	FALSE	1%
Total Chromium	PH1-GWC-2	FALSE	1%
Total Chromium	PH1-GWA-1	FALSE	1%
Total Chromium	GWC-1	FALSE	1%
Total Chromium	PH1-GWB-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 - Phase I
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	PH1-GWC-1	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	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-GWC-2	FALSE	0.45%
Total Chromium	PH1-GWA-1	FALSE	0.45%
Total Chromium	GWC-1	FALSE	0.45%
Total Chromium	PH1-GWB-2	FALSE	0.45%
Total Chromium	PH1-GWC-1	FALSE	0.45%
Total Chromium	PH1-GWC-3	FALSE	0.45%
Total Chromium	PH1-GWC-3A	FALSE	0.45%
Total Chromium	PH1-GWC-4	FALSE	0.45%
Total Cobalt	PH1-GWA-1A	FALSE	1%
Total Cobalt	PH1-GWA-2	FALSE	1%
Total Cobalt	PH1-GWB-1	FALSE	1%
Total Cobalt	PH1-GWC-2	FALSE	1%
Total Cobalt	PH1-GWA-1	TRUE	1%
Total Cobalt	GWC-1	FALSE	1%
Total Cobalt	PH1-GWB-2	FALSE	1%
Total Cobalt	PH1-GWC-1	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	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-GWC-2	FALSE	0.45%
Total Cobalt	PH1-GWA-1	TRUE	0.45%
Total Cobalt	GWC-1	FALSE	0.45%
Total Cobalt	PH1-GWB-2	FALSE	0.45%
Total Cobalt	PH1-GWC-1	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 Zinc	PH1-GWA-1A	FALSE	1%
Total Zinc	PH1-GWA-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 - Phase I
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	PH1-GWB-1	FALSE	1%
Total Zinc	PH1-GWC-2	FALSE	1%
Total Zinc	PH1-GWA-1	TRUE	1%
Total Zinc	GWC-1	FALSE	1%
Total Zinc	PH1-GWB-2	TRUE	1%
Total Zinc	PH1-GWC-1	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	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-GWC-2	FALSE	0.45%
Total Zinc	PH1-GWA-1	TRUE	0.45%
Total Zinc	GWC-1	FALSE	0.45%
Total Zinc	PH1-GWB-2	TRUE	0.45%
Total Zinc	PH1-GWC-1	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%

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	6/22/2015	ND<1	61
	12/7/2015	ND<1	61
	6/13/2016	ND<1	61
	12/9/2016	ND<1	61
	6/14/2017	ND<1	61
	12/11/2017	ND<1	61
	6/18/2018	ND<1	61
	12/17/2018	ND<1	61
	6/13/2019	ND<1	61
	12/12/2019	ND<1	61
	6/25/2020	ND<1	61
	12/18/2020	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWA-4	6/22/2015	ND<1	61
	12/8/2015	ND<1	61
	6/13/2016	ND<1	61
	12/7/2016	ND<1	61
	6/15/2017	ND<1	61
	12/12/2017	ND<1	61
	6/18/2018	ND<1	61
	12/18/2018	ND<1	61
	6/11/2019	ND<1	61
	12/9/2019	ND<1	61
	6/24/2020	ND<1	61
	12/15/2020	ND<1	61
Rank Sum = 732			
Rank Mean = 61			

Background Rank Sum = 1464
Background Rank Mean = 61

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/22/2015	ND<1	61
	12/8/2015	ND<1	61
	6/13/2016	ND<1	61
	12/7/2016	ND<1	61
	6/15/2017	ND<1	61
	12/13/2017	ND<1	61
	6/18/2018	ND<1	61
	12/18/2018	ND<1	61
	6/11/2019	ND<1	61
	12/9/2019	ND<1	61
	6/24/2020	ND<1	61

	12/15/2020	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWB-1	6/22/2015	ND<1	61
	12/7/2015	ND<1	61
	6/13/2016	ND<1	61
	12/7/2016	ND<1	61
	6/15/2017	ND<1	61
	12/12/2017	ND<1	61
	6/18/2018	ND<1	61
	12/17/2018	ND<1	61
	6/11/2019	ND<1	61
	12/10/2019	ND<1	61
	6/24/2020	ND<1	61
	12/17/2020	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWA-1	6/23/2015	ND<1	61
	12/8/2015	ND<1	61
	6/14/2016	ND<1	61
	12/7/2016	ND<1	61
	6/13/2017	ND<1	61
	12/13/2017	ND<1	61
	6/19/2018	ND<1	61
	12/18/2018	ND<1	61
	6/10/2019	ND<1	61
	12/9/2019	ND<1	61
	6/22/2020	ND<1	61
	12/15/2020	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWA-1A	6/23/2015	ND<1	61
	12/8/2015	ND<1	61
	6/14/2016	ND<1	61
	12/7/2016	ND<1	61
	6/12/2017	ND<1	61
	12/13/2017	ND<1	61
	6/19/2018	ND<1	61
	12/18/2018	ND<1	61
	6/10/2019	ND<1	61
	12/10/2019	ND<1	61
	6/22/2020	ND<1	61
	12/18/2020	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWC-2	6/23/2015	3	137
	12/8/2015	3.7	152
	6/14/2016	3.1	141
	12/7/2016	3.2	144
	6/13/2017	3	138
	12/13/2017	3.4	148
	6/19/2018	ND<1	61
	12/18/2018	2.8	134

	6/10/2019	3	139
	12/10/2019	3.7	153
	6/22/2020	3.1	142
	12/17/2020	3.8	154

Rank Sum = 1643
Rank Mean = 136.917

GWC-1	6/24/2015	ND<1	61
	12/9/2015	ND<1	61
	6/14/2016	ND<1	61
	12/8/2016	ND<1	61
	6/13/2017	ND<1	61
	12/13/2017	ND<1	61
	6/19/2018	ND<1	61
	12/17/2018	ND<1	61
	6/13/2019	ND<1	61
	12/10/2019	ND<1	61
	6/22/2020	ND<1	61
	12/16/2020	ND<1	61

Rank Sum = 732
Rank Mean = 61

PH1-GWB-2	6/24/2015	ND<1	61
	12/8/2015	ND<1	61
	6/13/2016	ND<1	61
	12/8/2016	ND<1	61
	6/15/2017	ND<1	61
	12/11/2017	ND<1	61
	6/19/2018	ND<1	61
	12/17/2018	ND<1	61
	6/12/2019	ND<1	61
	12/12/2019	ND<1	61
	6/24/2020	ND<1	61
	12/17/2020	ND<1	61

Rank Sum = 732
Rank Mean = 61

PH1-GWC-1	6/24/2015	ND<1	61
	12/8/2015	ND<1	61
	6/15/2016	ND<1	61
	12/8/2016	ND<1	61
	6/15/2017	ND<1	61
	12/11/2017	ND<1	61
	6/19/2018	ND<1	61
	12/19/2018	ND<1	61
	6/13/2019	ND<1	61
	12/11/2019	ND<1	61
	6/22/2020	ND<1	61
	12/17/2020	ND<1	61

Rank Sum = 732
Rank Mean = 61

PH1-GWC-3	6/24/2015	2.4	124
	12/9/2015	2.7	130
	6/16/2016	3.3	146
	12/8/2016	3.6	149
	6/13/2017	2.7	131

	12/12/2017	3.6	150
	6/19/2018	3.2	145
	12/18/2018	2.7	132
	6/10/2019	3.3	147
	12/9/2019	4	155
	6/22/2020	2.9	136
	12/15/2020	3.6	151

Rank Sum = 1696
Rank Mean = 141.333

PH1-GWC-3A	6/24/2015	2.4	125
	12/9/2015	2.6	127
	6/16/2016	2.7	133
	12/8/2016	2.8	135
	6/13/2017	2	122
	12/12/2017	2.6	128
	6/19/2018	2.6	129
	12/18/2018	2.3	123
	6/10/2019	2.5	126
	12/9/2019	3.1	143
	6/26/2020	ND<1	61
	12/15/2020	3	140

Rank Sum = 1492
Rank Mean = 124.333

PH1-GWC-4	6/24/2015	ND<1	61
	12/7/2015	ND<1	61
	6/13/2016	ND<1	61
	12/8/2016	ND<1	61
	6/15/2017	ND<1	61
	12/11/2017	ND<1	61
	6/19/2018	ND<1	61
	12/19/2018	ND<1	61
	6/13/2019	ND<1	61
	6/22/2020	ND<1	61
	12/17/2020	ND<1	61

Rank Sum = 671
Rank Mean = 61

Calculation Results:

Kruskal-Wallis H Statistic = 74.4118
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 141.931
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
74.4118 > 19.6752 indicating a significant group difference at 5% significance level
141.931 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	61	0	36.9204
PH1-GWB-1	61	0	36.9204
PH1-GWA-1	61	0	36.9204
PH1-GWA-1A	61	0	36.9204
PH1-GWC-2	**136.917**	**75.9167**	**36.9204**

GWC-1	61	0	36.9204
PH1-GWB-2	61	0	36.9204
PH1-GWC-1	61	0	36.9204
PH1-GWC-3	**141.333**	**80.3333**	**36.9204**
PH1-GWC-3A	**124.333**	**63.3333**	**36.9204**
PH1-GWC-4	61	0	38.0227

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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	61	0	42.0901
PH1-GWB-1	61	0	42.0901
PH1-GWA-1	61	0	42.0901
PH1-GWA-1A	61	0	42.0901
PH1-GWC-2	**136.917**	**75.9167**	**42.0901**
GWC-1	61	0	42.0901
PH1-GWB-2	61	0	42.0901
PH1-GWC-1	61	0	42.0901
PH1-GWC-3	**141.333**	**80.3333**	**42.0901**
PH1-GWC-3A	**124.333**	**63.3333**	**42.0901**
PH1-GWC-4	61	0	43.3468

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	6/22/2015	ND<1	47.5
	12/7/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/9/2016	ND<1	47.5
	6/14/2017	ND<1	47.5
	12/11/2017	ND<1	47.5
	6/18/2018	ND<1	47.5
	12/17/2018	ND<1	47.5
	6/13/2019	ND<1	47.5
	12/12/2019	ND<1	47.5
	6/25/2020	ND<1	47.5
	12/18/2020	ND<1	47.5

Rank Sum = 570

Rank Mean = 47.5

PH1-GWA-4	6/22/2015	ND<1	47.5
	12/8/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/7/2016	ND<1	47.5
	6/15/2017	ND<1	47.5
	12/12/2017	ND<1	47.5
	6/18/2018	ND<1	47.5
	12/18/2018	ND<1	47.5
	6/11/2019	ND<1	47.5
	12/9/2019	ND<1	47.5
	6/24/2020	ND<1	47.5
	12/15/2020	ND<1	47.5

Rank Sum = 570

Rank Mean = 47.5

Background Rank Sum = 1140

Background Rank Mean = 47.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/22/2015	53	151
	12/8/2015	21	142
	6/13/2016	32	146
	12/7/2016	70	154
	6/15/2017	49	149
	12/13/2017	64	153
	6/18/2018	46	148
	12/18/2018	55	152
	6/11/2019	26	143
	12/9/2019	120	155
	6/24/2020	42	147

	12/15/2020	52	150

Rank Sum = 1790
Rank Mean = 149.167

PH1-GWB-1	6/22/2015	ND<1	47.5
	12/7/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/7/2016	ND<1	47.5
	6/15/2017	ND<1	47.5
	12/12/2017	ND<1	47.5
	6/18/2018	ND<1	47.5
	12/17/2018	ND<1	47.5
	6/11/2019	ND<1	47.5
	12/10/2019	ND<1	47.5
	6/24/2020	ND<1	47.5
	12/17/2020	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWA-1	6/23/2015	7.5	116
	12/8/2015	8	118
	6/14/2016	8.3	119
	12/7/2016	5	110
	6/13/2017	5.2	112
	12/13/2017	3.5	105
	6/19/2018	3.1	102
	12/18/2018	2.4	99
	6/10/2019	5.2	113
	12/9/2019	3.7	106
	6/22/2020	4	107
	12/15/2020	4.3	108

Rank Sum = 1315
Rank Mean = 109.583

PH1-GWA-1A	6/23/2015	ND<1	47.5
	12/8/2015	ND<1	47.5
	6/14/2016	ND<1	47.5
	12/7/2016	ND<1	47.5
	6/12/2017	ND<1	47.5
	12/13/2017	ND<1	47.5
	6/19/2018	ND<1	47.5
	12/18/2018	ND<1	47.5
	6/10/2019	ND<1	47.5
	12/10/2019	ND<1	47.5
	6/22/2020	ND<1	47.5
	12/18/2020	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWC-2	6/23/2015	2	95
	12/8/2015	2.5	100
	6/14/2016	2.2	96
	12/7/2016	2.3	98
	6/13/2017	4.4	109
	12/13/2017	3.1	103
	6/19/2018	2.2	97
	12/18/2018	3.3	104

	6/10/2019	5.1	111
	12/10/2019	5.7	114
	6/22/2020	6	115
	12/17/2020	7.8	117

Rank Sum = 1259
Rank Mean = 104.917

GWC-1	6/24/2015	ND<1	47.5
	12/9/2015	ND<1	47.5
	6/14/2016	ND<1	47.5
	12/8/2016	ND<1	47.5
	6/13/2017	ND<1	47.5
	12/13/2017	ND<1	47.5
	6/19/2018	ND<1	47.5
	12/17/2018	ND<1	47.5
	6/13/2019	ND<1	47.5
	12/10/2019	ND<1	47.5
	6/22/2020	ND<1	47.5
	12/16/2020	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWB-2	6/24/2015	ND<1	47.5
	12/8/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/8/2016	ND<1	47.5
	6/15/2017	ND<1	47.5
	12/11/2017	ND<1	47.5
	6/19/2018	ND<1	47.5
	12/17/2018	2.6	101
	6/12/2019	ND<1	47.5
	12/12/2019	ND<1	47.5
	6/24/2020	ND<1	47.5
	12/17/2020	ND<1	47.5

Rank Sum = 623.5
Rank Mean = 51.9583

PH1-GWC-1	6/24/2015	ND<1	47.5
	12/8/2015	ND<1	47.5
	6/15/2016	ND<1	47.5
	12/8/2016	ND<1	47.5
	6/15/2017	ND<1	47.5
	12/11/2017	ND<1	47.5
	6/19/2018	ND<1	47.5
	12/19/2018	ND<1	47.5
	6/13/2019	ND<1	47.5
	12/11/2019	ND<1	47.5
	6/22/2020	ND<1	47.5
	12/17/2020	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWC-3	6/24/2015	11	125
	12/9/2015	13	130
	6/16/2016	15	133
	12/8/2016	15	134
	6/13/2017	14	131

	12/12/2017	15	135
	6/19/2018	15	136
	12/18/2018	15	137
	6/10/2019	19	140
	12/9/2019	27	145
	6/22/2020	20	141
	12/15/2020	26	144

Rank Sum = 1631
Rank Mean = 135.917

PH1-GWC-3A	6/24/2015	9.3	121
	12/9/2015	10	123
	6/16/2016	9.9	122
	12/8/2016	11	126
	6/13/2017	11	127
	12/12/2017	10	124
	6/19/2018	12	129
	12/18/2018	9.2	120
	6/10/2019	11	128
	12/9/2019	16	138
	6/26/2020	14	132
	12/15/2020	16	139

Rank Sum = 1529
Rank Mean = 127.417

PH1-GWC-4	6/24/2015	ND<1	47.5
	12/7/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/8/2016	ND<1	47.5
	6/15/2017	ND<1	47.5
	12/11/2017	ND<1	47.5
	6/19/2018	ND<1	47.5
	12/19/2018	ND<1	47.5
	6/13/2019	ND<1	47.5
	6/22/2020	ND<1	47.5
	12/17/2020	ND<1	47.5

Rank Sum = 522.5
Rank Mean = 47.5

Calculation Results:

Kruskal-Wallis H Statistic = 117.293
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 150.962
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
117.293 > 19.6752 indicating a significant group difference at 5% significance level
150.962 > 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 47.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	**149.167**	**101.667**	**36.9204**
PH1-GWB-1	47.5	0	36.9204
PH1-GWA-1	**109.583**	**62.0833**	**36.9204**
PH1-GWA-1A	47.5	0	36.9204
PH1-GWC-2	**104.917**	**57.4167**	**36.9204**

GWC-1	47.5	0	36.9204
PH1-GWB-2	51.9583	4.45833	36.9204
PH1-GWC-1	47.5	0	36.9204
PH1-GWC-3	**135.917**	**88.4167**	**36.9204**
PH1-GWC-3A	**127.417**	**79.9167**	**36.9204**
PH1-GWC-4	47.5	0	38.0227

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 47.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	**149.167**	**101.667**	**42.0901**
PH1-GWB-1	47.5	0	42.0901
PH1-GWA-1	**109.583**	**62.0833**	**42.0901**
PH1-GWA-1A	47.5	0	42.0901
PH1-GWC-2	**104.917**	**57.4167**	**42.0901**
GWC-1	47.5	0	42.0901
PH1-GWB-2	51.9583	4.45833	42.0901
PH1-GWC-1	47.5	0	42.0901
PH1-GWC-3	**135.917**	**88.4167**	**42.0901**
PH1-GWC-3A	**127.417**	**79.9167**	**42.0901**
PH1-GWC-4	47.5	0	43.3468

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	6/22/2015	ND<1	58
	12/7/2015	ND<1	58
	6/13/2016	ND<1	58
	12/9/2016	ND<1	58
	6/14/2017	ND<1	58
	12/11/2017	ND<1	58
	6/18/2018	ND<1	58
	12/17/2018	ND<1	58
	6/13/2019	ND<1	58
	12/12/2019	ND<1	58
	6/25/2020	ND<1	58
	12/18/2020	ND<1	58
Rank Sum = 696			
Rank Mean = 58			
PH1-GWA-4	6/22/2015	ND<1	58
	12/8/2015	ND<1	58
	6/13/2016	ND<1	58
	12/7/2016	ND<1	58
	6/15/2017	ND<1	58
	12/12/2017	ND<1	58
	6/18/2018	ND<1	58
	12/18/2018	ND<1	58
	6/11/2019	ND<1	58
	12/9/2019	ND<1	58
	6/24/2020	ND<1	58
	12/15/2020	ND<1	58
Rank Sum = 696			
Rank Mean = 58			

Background Rank Sum = 1392
Background Rank Mean = 58

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/22/2015	3.5	120
	12/8/2015	ND<1	58
	6/13/2016	ND<1	58
	12/7/2016	3.7	121
	6/15/2017	2.1	116
	12/13/2017	2.3	118
	6/18/2018	ND<1	58
	12/18/2018	ND<1	58
	6/11/2019	ND<1	58
	12/9/2019	2.4	119
	6/24/2020	ND<1	58

	12/15/2020	ND<1	58
Rank Sum = 1000			
Rank Mean = 83.3333			
PH1-GWB-1	6/22/2015	ND<1	58
	12/7/2015	ND<1	58
	6/13/2016	ND<1	58
	12/7/2016	ND<1	58
	6/15/2017	ND<1	58
	12/12/2017	ND<1	58
	6/18/2018	ND<1	58
	12/17/2018	ND<1	58
	6/11/2019	ND<1	58
	12/10/2019	ND<1	58
	6/24/2020	ND<1	58
	12/17/2020	ND<1	58
Rank Sum = 696			
Rank Mean = 58			
PH1-GWA-1	6/23/2015	ND<1	58
	12/8/2015	ND<1	58
	6/14/2016	ND<1	58
	12/7/2016	ND<1	58
	6/13/2017	ND<1	58
	12/13/2017	ND<1	58
	6/19/2018	2.1	117
	12/18/2018	ND<1	58
	6/10/2019	ND<1	58
	12/9/2019	ND<1	58
	6/22/2020	ND<1	58
	12/15/2020	ND<1	58
Rank Sum = 755			
Rank Mean = 62.9167			
PH1-GWA-1A	6/23/2015	ND<1	58
	12/8/2015	ND<1	58
	6/14/2016	ND<1	58
	12/7/2016	ND<1	58
	6/12/2017	ND<1	58
	12/13/2017	ND<1	58
	6/19/2018	ND<1	58
	12/18/2018	ND<1	58
	6/10/2019	ND<1	58
	12/10/2019	ND<1	58
	6/22/2020	ND<1	58
	12/18/2020	ND<1	58
Rank Sum = 696			
Rank Mean = 58			
PH1-GWC-2	6/23/2015	4.7	126
	12/8/2015	6.3	131
	6/14/2016	4	123
	12/7/2016	3.9	122
	6/13/2017	6.7	133
	12/13/2017	5.1	127
	6/19/2018	ND<1	58
	12/18/2018	5.1	128

	6/10/2019	4.2	124
	12/10/2019	6.3	132
	6/22/2020	4.6	125
	12/17/2020	5.3	129

Rank Sum = 1458
Rank Mean = 121.5

GWC-1	6/24/2015	ND<1	58
	12/9/2015	ND<1	58
	6/14/2016	ND<1	58
	12/8/2016	ND<1	58
	6/13/2017	ND<1	58
	12/13/2017	ND<1	58
	6/19/2018	ND<1	58
	12/17/2018	ND<1	58
	6/13/2019	ND<1	58
	12/10/2019	ND<1	58
	6/22/2020	ND<1	58
	12/16/2020	ND<1	58

Rank Sum = 696
Rank Mean = 58

PH1-GWB-2	6/24/2015	ND<1	58
	12/8/2015	ND<1	58
	6/13/2016	ND<1	58
	12/8/2016	ND<1	58
	6/15/2017	ND<1	58
	12/11/2017	ND<1	58
	6/19/2018	ND<1	58
	12/17/2018	ND<1	58
	6/12/2019	ND<1	58
	12/12/2019	ND<1	58
	6/24/2020	ND<1	58
	12/17/2020	ND<1	58

Rank Sum = 696
Rank Mean = 58

PH1-GWC-1	6/24/2015	ND<1	58
	12/8/2015	ND<1	58
	6/15/2016	ND<1	58
	12/8/2016	ND<1	58
	6/15/2017	ND<1	58
	12/11/2017	ND<1	58
	6/19/2018	ND<1	58
	12/19/2018	ND<1	58
	6/13/2019	ND<1	58
	12/11/2019	ND<1	58
	6/22/2020	ND<1	58
	12/17/2020	ND<1	58

Rank Sum = 696
Rank Mean = 58

PH1-GWC-3	6/24/2015	8.7	139
	12/9/2015	12	152
	6/16/2016	8.4	136
	12/8/2016	12	153
	6/13/2017	11	148

	12/12/2017	13	154
	6/19/2018	11	149
	12/18/2018	10	145
	6/10/2019	11	150
	12/9/2019	13	155
	6/22/2020	9	143
	12/15/2020	9.1	144

Rank Sum = 1768
Rank Mean = 147.333

PH1-GWC-3A	6/24/2015	8.5	137
	12/9/2015	10	146
	6/16/2016	6.7	134
	12/8/2016	8.6	138
	6/13/2017	8.9	142
	12/12/2017	10	147
	6/19/2018	11	151
	12/18/2018	8.7	140
	6/10/2019	8.8	141
	12/9/2019	7.4	135
	6/26/2020	ND<1	58
	12/15/2020	5.7	130

Rank Sum = 1599
Rank Mean = 133.25

PH1-GWC-4	6/24/2015	ND<1	58
	12/7/2015	ND<1	58
	6/13/2016	ND<1	58
	12/8/2016	ND<1	58
	6/15/2017	ND<1	58
	12/11/2017	ND<1	58
	6/19/2018	ND<1	58
	12/19/2018	ND<1	58
	6/13/2019	ND<1	58
	6/22/2020	ND<1	58
	12/17/2020	ND<1	58

Rank Sum = 638
Rank Mean = 58

Calculation Results:

Kruskal-Wallis H Statistic = 78.4588
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 132.621
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
78.4588 > 19.6752 indicating a significant group difference at 5% significance level
132.621 > 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 58

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	83.3333	25.3333	36.9204
PH1-GWB-1	58	0	36.9204
PH1-GWA-1	62.9167	4.91667	36.9204
PH1-GWA-1A	58	0	36.9204
PH1-GWC-2	**121.5**	**63.5**	**36.9204**

GWC-1	58	0	36.9204
PH1-GWB-2	58	0	36.9204
PH1-GWC-1	58	0	36.9204
PH1-GWC-3	**147.333**	**89.3333**	**36.9204**
PH1-GWC-3A	**133.25**	**75.25**	**36.9204**
PH1-GWC-4	58	0	38.0227

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 58

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	83.3333	25.3333	42.0901
PH1-GWB-1	58	0	42.0901
PH1-GWA-1	62.9167	4.91667	42.0901
PH1-GWA-1A	58	0	42.0901
PH1-GWC-2	**121.5**	**63.5**	**42.0901**
GWC-1	58	0	42.0901
PH1-GWB-2	58	0	42.0901
PH1-GWC-1	58	0	42.0901
PH1-GWC-3	**147.333**	**89.3333**	**42.0901**
PH1-GWC-3A	**133.25**	**75.25**	**42.0901**
PH1-GWC-4	58	0	43.3468

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	6/22/2015	ND<1	55.5
	12/7/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/9/2016	ND<1	55.5
	6/14/2017	ND<1	55.5
	12/11/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/12/2019	ND<1	55.5
	6/25/2020	ND<1	55.5
	12/18/2020	ND<1	55.5

Rank Sum = 666

Rank Mean = 55.5

PH1-GWA-4	6/22/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/12/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/11/2019	ND<1	55.5
	12/9/2019	ND<1	55.5
	6/24/2020	ND<1	55.5
	12/15/2020	ND<1	55.5

Rank Sum = 666

Rank Mean = 55.5

Background Rank Sum = 1332

Background Rank Mean = 55.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/22/2015	5.1	130
	12/8/2015	3.5	124
	6/13/2016	3.8	125
	12/7/2016	7.1	146
	6/15/2017	4.1	127
	12/13/2017	5.8	134
	6/18/2018	4.2	128
	12/18/2018	4	126
	6/11/2019	2.1	113
	12/9/2019	7.3	148
	6/24/2020	2.4	117

	12/15/2020	2.5	119

Rank Sum = 1537
Rank Mean = 128.083

PH1-GWB-1	6/22/2015	ND<1	55.5
	12/7/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/12/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/11/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/24/2020	ND<1	55.5
	12/17/2020	ND<1	55.5

Rank Sum = 666
Rank Mean = 55.5

PH1-GWA-1	6/23/2015	2.1	114
	12/8/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/7/2016	2.2	116
	6/13/2017	ND<1	55.5
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/10/2019	ND<1	55.5
	12/9/2019	3.1	123
	6/22/2020	ND<1	55.5
	12/15/2020	ND<1	55.5

Rank Sum = 852.5
Rank Mean = 71.0417

PH1-GWA-1A	6/23/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/12/2017	ND<1	55.5
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/10/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/18/2020	ND<1	55.5

Rank Sum = 666
Rank Mean = 55.5

PH1-GWC-2	6/23/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/13/2017	2.4	118
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	2	111

	6/10/2019	2	112
	12/10/2019	2.6	121
	6/22/2020	2.1	115
	12/17/2020	2.5	120

Rank Sum = 1030
Rank Mean = 85.8333

GWC-1	6/24/2015	ND<1	55.5
	12/9/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/8/2016	ND<1	55.5
	6/13/2017	ND<1	55.5
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/16/2020	ND<1	55.5

Rank Sum = 666
Rank Mean = 55.5

PH1-GWB-2	6/24/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/8/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/12/2019	ND<1	55.5
	12/12/2019	ND<1	55.5
	6/24/2020	ND<1	55.5
	12/17/2020	ND<1	55.5

Rank Sum = 666
Rank Mean = 55.5

PH1-GWC-1	6/24/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/15/2016	ND<1	55.5
	12/8/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/19/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/11/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/17/2020	ND<1	55.5

Rank Sum = 666
Rank Mean = 55.5

PH1-GWC-3	6/24/2015	5.3	131
	12/9/2015	6.9	143
	6/16/2016	5.6	132
	12/8/2016	7.6	150
	6/13/2017	7	145

	12/12/2017	8.4	153
	6/19/2018	6.9	144
	12/18/2018	6.8	140
	6/10/2019	7.4	149
	12/9/2019	8.7	155
	6/22/2020	7.1	147
	12/15/2020	7.6	151

Rank Sum = 1740
Rank Mean = 145

PH1-GWC-3A	6/24/2015	6.5	137
	12/9/2015	6.7	139
	6/16/2016	4.6	129
	12/8/2016	6.8	141
	6/13/2017	6	136
	12/12/2017	6.6	138
	6/19/2018	6.8	142
	12/18/2018	5.8	135
	6/10/2019	5.7	133
	12/9/2019	8.4	154
	6/26/2020	2.8	122
	12/15/2020	8.1	152

Rank Sum = 1658
Rank Mean = 138.167

PH1-GWC-4	6/24/2015	ND<1	55.5
	12/7/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/8/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/19/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/17/2020	ND<1	55.5

Rank Sum = 610.5
Rank Mean = 55.5

Calculation Results:

Kruskal-Wallis H Statistic = 87.7516
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 136.559
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
87.7516 > 19.6752 indicating a significant group difference at 5% significance level
136.559 > 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 55.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	**128.083**	**72.5833**	**36.9204**
PH1-GWB-1	55.5	0	36.9204
PH1-GWA-1	71.0417	15.5417	36.9204
PH1-GWA-1A	55.5	0	36.9204
PH1-GWC-2	85.8333	30.3333	36.9204

GWC-1	55.5	0	36.9204
PH1-GWB-2	55.5	0	36.9204
PH1-GWC-1	55.5	0	36.9204
PH1-GWC-3	**145**	**89.5**	**36.9204**
PH1-GWC-3A	**138.167**	**82.6667**	**36.9204**
PH1-GWC-4	55.5	0	38.0227

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 55.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	**128.083**	**72.5833**	**42.0901**
PH1-GWB-1	55.5	0	42.0901
PH1-GWA-1	71.0417	15.5417	42.0901
PH1-GWA-1A	55.5	0	42.0901
PH1-GWC-2	85.8333	30.3333	42.0901
GWC-1	55.5	0	42.0901
PH1-GWB-2	55.5	0	42.0901
PH1-GWC-1	55.5	0	42.0901
PH1-GWC-3	**145**	**89.5**	**42.0901**
PH1-GWC-3A	**138.167**	**82.6667**	**42.0901**
PH1-GWC-4	55.5	0	43.3468

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	6/22/2015	ND<10	21
	12/7/2015	ND<10	21
	6/13/2016	ND<10	21
	12/9/2016	20	42
	6/14/2017	ND<10	21
	12/11/2017	ND<10	21
	6/18/2018	ND<10	21
	12/17/2018	ND<10	21
	6/13/2019	ND<10	21
	12/12/2019	ND<10	21
	6/25/2020	ND<10	21
	12/18/2020	ND<10	21
Rank Sum = 273			
Rank Mean = 22.75			
PH1-GWA-4	6/23/2015	ND<10	21
	12/9/2015	ND<10	21
	6/14/2016	ND<10	21
	12/8/2016	ND<10	21
	6/16/2017	ND<10	21
	12/13/2017	37	99
	6/19/2018	ND<10	21
	12/19/2018	ND<10	21
	6/12/2019	ND<10	21
	12/10/2019	ND<10	21
	6/25/2020	ND<10	21
	12/16/2020	ND<10	21
Rank Sum = 330			
Rank Mean = 27.5			

Background Rank Sum = 603
Background Rank Mean = 25.125

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1A	6/23/2015	29	84
	12/9/2015	30	89
	6/14/2016	37	100
	12/7/2016	21	45
	6/12/2017	24	55
	12/13/2017	27	74
	6/20/2018	25	63
	12/19/2018	27	75
	6/11/2019	24	56
	12/10/2019	23.4	52
	6/22/2020	21.7	49

	12/18/2020	27.4	79
Rank Sum = 821			
Rank Mean = 68.4167			
PH1-GWA-2	6/23/2015	82	137
	12/9/2015	74	127
	6/14/2016	85	142
	12/8/2016	110	153
	6/16/2017	80	132
	12/14/2017	80	133
	6/19/2018	61	121
	12/19/2018	81	135
	6/12/2019	84	139
	12/10/2019	84.2	141
	6/25/2020	64.6	123
	12/16/2020	65.5	124
Rank Sum = 1607			
Rank Mean = 133.917			
PH1-GWB-1	6/23/2015	78	130
	12/8/2015	75	128
	6/14/2016	84	140
	12/8/2016	75	129
	6/16/2017	52	114
	12/13/2017	54	116
	6/19/2018	62	122
	12/18/2018	53	115
	6/12/2019	82	138
	12/11/2019	67	125
	6/25/2020	79.3	131
	12/18/2020	50.5	112
Rank Sum = 1500			
Rank Mean = 125			
PH1-GWC-2	6/23/2015	ND<10	21
	12/8/2015	ND<10	21
	6/14/2016	ND<10	21
	12/7/2016	ND<10	21
	6/14/2017	51	113
	12/13/2017	ND<10	21
	6/19/2018	ND<10	21
	12/18/2018	26	69
	6/10/2019	39	102
	12/10/2019	ND<10	21
	6/22/2020	33.6	94
	12/17/2020	ND<10	21
Rank Sum = 546			
Rank Mean = 45.5			
PH1-GWA-1	6/24/2015	21	46
	12/9/2015	ND<10	21
	6/15/2016	21	47
	12/8/2016	ND<10	21
	6/14/2017	21	48
	12/14/2017	20	43
	6/20/2018	34	95
	12/19/2018	24	57

	6/11/2019	24	58
	12/10/2019	20.3	44
	6/23/2020	27.7	80
	12/16/2020	ND<10	21

Rank Sum = 581
Rank Mean = 48.4167

GWC-1	6/25/2015	99	151
	12/10/2015	89	145
	6/15/2016	92	146
	12/9/2016	100	152
	6/14/2017	92	147
	12/14/2017	88	144
	6/20/2018	94	149
	12/18/2018	150	154
	6/13/2019	93	148
	12/11/2019	85.2	143
	6/23/2020	95.3	150
	12/17/2020	81.1	136

Rank Sum = 1765
Rank Mean = 147.083

PH1-GWB-2	6/25/2015	ND<10	21
	12/9/2015	29	85
	6/14/2016	28	81
	12/9/2016	26	70
	6/16/2017	ND<10	21
	12/12/2017	ND<10	21
	6/20/2018	ND<10	21
	12/18/2018	22	50
	6/13/2019	ND<10	21
	12/13/2019	ND<10	21
	6/25/2020	ND<10	21
	12/18/2020	ND<10	21

Rank Sum = 454
Rank Mean = 37.8333

PH1-GWC-1	6/25/2015	58	120
	12/9/2015	41	104
	6/16/2016	54	117
	12/9/2016	70	126
	6/16/2017	40	103
	12/12/2017	38	101
	6/20/2018	42	106
	12/20/2018	47	110
	6/13/2019	50	111
	12/12/2019	43.7	109
	6/23/2020	42.8	108
	12/18/2020	32.1	93

Rank Sum = 1308
Rank Mean = 109

PH1-GWC-3	6/25/2015	25	64
	12/10/2015	25	65
	6/17/2016	24	59
	12/9/2016	28	82
	6/14/2017	26	71

	12/13/2017	27	76
	6/20/2018	23	51
	12/19/2018	27	77
	6/11/2019	30	90
	12/10/2019	24.7	61
	6/23/2020	23.6	53
	12/16/2020	25.6	67

Rank Sum = 816
Rank Mean = 68

PH1-GWC-3A	6/25/2015	28	83
	12/10/2015	26	72
	6/17/2016	29	86
	12/9/2016	29	87
	6/14/2017	29	88
	12/13/2017	27	78
	6/28/2018	26	73
	12/19/2018	24	60
	6/11/2019	30	91
	12/10/2019	24.9	62
	6/23/2020	23.9	54
	12/16/2020	25.9	68

Rank Sum = 902
Rank Mean = 75.1667

PH1-GWC-4	6/25/2015	34	96
	12/8/2015	36	98
	6/14/2016	41	105
	12/9/2016	80	134
	6/16/2017	42	107
	12/12/2017	54	118
	6/20/2018	34	97
	12/20/2018	310	155
	6/13/2019	32	92
	6/23/2020	25.2	66
	12/18/2020	56.4	119

Rank Sum = 1187
Rank Mean = 107.909

Calculation Results:

Kruskal-Wallis H Statistic = 126.404
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 128.786
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
126.404 > 19.6752 indicating a significant group difference at 5% significance level
128.786 > 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 25.125

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	**68.4167**	**43.2917**	**36.9204**
PH1-GWA-2	**133.917**	**108.792**	**36.9204**
PH1-GWB-1	**125**	**99.875**	**36.9204**
PH1-GWC-2	45.5	20.375	36.9204
PH1-GWA-1	48.4167	23.2917	36.9204

GWC-1	**147.083**	**121.958**	**36.9204**
PH1-GWB-2	37.8333	12.7083	36.9204
PH1-GWC-1	**109**	**83.875**	**36.9204**
PH1-GWC-3	**68**	**42.875**	**36.9204**
PH1-GWC-3A	**75.1667**	**50.0417**	**36.9204**
PH1-GWC-4	**107.909**	**82.7841**	**38.0227**

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 25.125

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	**68.4167**	**43.2917**	**42.0901**
PH1-GWA-2	**133.917**	**108.792**	**42.0901**
PH1-GWB-1	**125**	**99.875**	**42.0901**
PH1-GWC-2	45.5	20.375	42.0901
PH1-GWA-1	48.4167	23.2917	42.0901
GWC-1	**147.083**	**121.958**	**42.0901**
PH1-GWB-2	37.8333	12.7083	42.0901
PH1-GWC-1	**109**	**83.875**	**42.0901**
PH1-GWC-3	**68**	**42.875**	**42.0901**
PH1-GWC-3A	**75.1667**	**50.0417**	**42.0901**
PH1-GWC-4	**107.909**	**82.7841**	**43.3468**

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	6/22/2015	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
	6/25/2020	ND<5	74.5
	12/18/2020	ND<5	74.5

Rank Sum = 894

Rank Mean = 74.5

PH1-GWA-4	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
	6/25/2020	ND<5	74.5
	12/16/2020	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-1A	6/23/2015	ND<5	74.5
	12/9/2015	10	149
	6/14/2016	28	153
	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
	6/22/2020	ND<5	74.5

	12/18/2020	ND<5	74.5

Rank Sum = 1122.5
Rank Mean = 93.5417

PH1-GWA-2	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
	6/25/2020	ND<5	74.5
	12/16/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWB-1	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
	6/25/2020	ND<5	74.5
	12/18/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-2	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	155
	12/10/2019	ND<5	74.5
	6/22/2020	27.2	152
	12/17/2020	ND<5	74.5

Rank Sum = 1128.5
Rank Mean = 94.0417

PH1-GWA-1	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
	12/10/2019	ND<5	74.5
	6/23/2020	ND<5	74.5
	12/16/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

GWC-1	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
	6/23/2020	ND<5	74.5
	12/17/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWB-2	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
	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
	6/25/2020	ND<5	74.5
	12/18/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-1	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
	6/23/2020	ND<5	74.5
	12/18/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-3	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
	6/23/2020	ND<5	74.5
	12/16/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-3A	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
	6/23/2020	ND<5	74.5
	12/16/2020	ND<5	74.5

Rank Sum = 894
Rank Mean = 74.5

PH1-GWC-4	6/25/2015	ND<5	74.5
	12/8/2015	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
	6/20/2018	ND<5	74.5
	12/20/2018	49	154
	6/13/2019	ND<5	74.5
	6/23/2020	ND<5	74.5
	12/18/2020	ND<5	74.5

Rank Sum = 899
Rank Mean = 81.7273

Calculation Results:

Kruskal-Wallis H Statistic = 3.77636
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 29.1699
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
3.77636 < 19.6752 indicating no significant group difference at 5% significance level
29.1699 > 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-1A	93.5417	19.0417	36.9204
PH1-GWA-2	74.5	0	36.9204
PH1-GWB-1	74.5	0	36.9204
PH1-GWC-2	94.0417	19.5417	36.9204
PH1-GWA-1	74.5	0	36.9204

GWC-1	74.5	0	36.9204
PH1-GWB-2	74.5	0	36.9204
PH1-GWC-1	74.5	0	36.9204
PH1-GWC-3	74.5	0	36.9204
PH1-GWC-3A	74.5	0	36.9204
PH1-GWC-4	81.7273	7.22727	38.0227

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-1A	93.5417	19.0417	42.0901
PH1-GWA-2	74.5	0	42.0901
PH1-GWB-1	74.5	0	42.0901
PH1-GWC-2	94.0417	19.5417	42.0901
PH1-GWA-1	74.5	0	42.0901
GWC-1	74.5	0	42.0901
PH1-GWB-2	74.5	0	42.0901
PH1-GWC-1	74.5	0	42.0901
PH1-GWC-3	74.5	0	42.0901
PH1-GWC-3A	74.5	0	42.0901
PH1-GWC-4	81.7273	7.22727	43.3468

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	6/22/2015	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
	6/25/2020	ND<20	72
	12/18/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWA-4	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
	6/25/2020	ND<20	72
	12/16/2020	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-1A	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
	6/22/2020	ND<20	72

	12/18/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWA-2	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
	6/25/2020	ND<20	72
	12/16/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWB-1	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
	6/25/2020	ND<20	72
	12/18/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWC-2	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
	6/22/2020	ND<20	72
	12/17/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWA-1	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	147

	6/11/2019	91	149
	12/10/2019	90.1	148
	6/23/2020	76.6	146
	12/16/2020	95.6	152

Rank Sum = 1794
Rank Mean = 149.5

GWC-1	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
	6/23/2020	ND<20	72
	12/17/2020	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWB-2	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
	6/20/2018	ND<20	72
	12/18/2018	ND<20	72
	6/13/2019	ND<20	72
	12/13/2019	ND<20	72
	6/25/2020	ND<20	72
	12/18/2020	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-1	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
	6/23/2020	ND<20	72
	12/18/2020	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-3	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
	6/23/2020	ND<20	72
	12/16/2020	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-3A	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
	6/23/2020	ND<20	72
	12/16/2020	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-4	6/25/2015	ND<20	72
	12/8/2015	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
	6/20/2018	ND<20	72
	12/20/2018	ND<20	72
	6/13/2019	ND<20	72
	6/23/2020	ND<20	72
	12/18/2020	ND<20	72

Rank Sum = 792
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-1A	72	0	36.9204
PH1-GWA-2	72	0	36.9204
PH1-GWB-1	72	0	36.9204
PH1-GWC-2	72	0	36.9204
PH1-GWA-1	**149.5**	**77.5**	**36.9204**

GWC-1	72	0	36.9204
PH1-GWB-2	72	0	36.9204
PH1-GWC-1	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

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-1A	72	0	42.0901
PH1-GWA-2	72	0	42.0901
PH1-GWB-1	72	0	42.0901
PH1-GWC-2	72	0	42.0901
PH1-GWA-1	**149.5**	**77.5**	**42.0901**
GWC-1	72	0	42.0901
PH1-GWB-2	72	0	42.0901
PH1-GWC-1	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

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	6/22/2015	ND<10	57.5
	12/7/2015	ND<10	57.5
	6/13/2016	ND<10	57.5
	12/9/2016	ND<10	57.5
	6/14/2017	ND<10	57.5
	12/11/2017	ND<10	57.5
	6/18/2018	ND<10	57.5
	12/17/2018	ND<10	57.5
	6/13/2019	ND<10	57.5
	12/12/2019	ND<10	57.5
	6/25/2020	ND<10	57.5
	12/18/2020	ND<10	57.5

Rank Sum = 690

Rank Mean = 57.5

PH1-GWA-4	6/23/2015	ND<10	57.5
	12/9/2015	ND<10	57.5
	6/14/2016	ND<10	57.5
	12/8/2016	ND<10	57.5
	6/16/2017	ND<10	57.5
	12/13/2017	ND<10	57.5
	6/19/2018	ND<10	57.5
	12/19/2018	ND<10	57.5
	6/12/2019	ND<10	57.5
	12/10/2019	48.9	148
	6/25/2020	ND<10	57.5
	12/16/2020	ND<10	57.5

Rank Sum = 780.5

Rank Mean = 65.0417

Background Rank Sum = 1470.5

Background Rank Mean = 61.2708

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1A	6/23/2015	ND<10	57.5
	12/9/2015	ND<10	57.5
	6/14/2016	ND<10	57.5
	12/7/2016	ND<10	57.5
	6/12/2017	ND<10	57.5
	12/13/2017	ND<10	57.5
	6/20/2018	ND<10	57.5
	12/19/2018	ND<10	57.5
	6/11/2019	ND<10	57.5
	12/10/2019	ND<10	57.5
	6/22/2020	ND<10	57.5

	12/18/2020	ND<10	57.5
Rank Sum = 690			
Rank Mean = 57.5			
PH1-GWA-2	6/23/2015	ND<10	57.5
	12/9/2015	ND<10	57.5
	6/14/2016	56	153
	12/8/2016	ND<10	57.5
	6/16/2017	ND<10	57.5
	12/14/2017	ND<10	57.5
	6/19/2018	ND<10	57.5
	12/19/2018	29	132
	6/12/2019	ND<10	57.5
	12/10/2019	ND<10	57.5
	6/25/2020	ND<10	57.5
	12/16/2020	ND<10	57.5
Rank Sum = 860			
Rank Mean = 71.6667			
PH1-GWB-1	6/23/2015	ND<10	57.5
	12/8/2015	29	133
	6/14/2016	ND<10	57.5
	12/8/2016	ND<10	57.5
	6/16/2017	ND<10	57.5
	12/13/2017	ND<10	57.5
	6/19/2018	39	145
	12/18/2018	ND<10	57.5
	6/12/2019	22	123
	12/11/2019	38.2	143
	6/25/2020	26.8	128
	12/18/2020	ND<10	57.5
Rank Sum = 1074.5			
Rank Mean = 89.5417			
PH1-GWC-2	6/23/2015	ND<10	57.5
	12/8/2015	ND<10	57.5
	6/14/2016	ND<10	57.5
	12/7/2016	ND<10	57.5
	6/14/2017	ND<10	57.5
	12/13/2017	ND<10	57.5
	6/19/2018	20	115
	12/18/2018	ND<10	57.5
	6/10/2019	26	127
	12/10/2019	ND<10	57.5
	6/22/2020	ND<10	57.5
	12/17/2020	ND<10	57.5
Rank Sum = 817			
Rank Mean = 68.0833			
PH1-GWA-1	6/24/2015	34	139
	12/9/2015	ND<10	57.5
	6/15/2016	21	119
	12/8/2016	ND<10	57.5
	6/14/2017	43	147
	12/14/2017	51	150
	6/20/2018	55	151
	12/19/2018	40	146

	6/11/2019	34	140
	12/10/2019	32.4	136
	6/23/2020	ND<10	57.5
	12/16/2020	ND<10	57.5
Rank Sum = 1358			
Rank Mean = 113.167			
GWC-1	6/25/2015	ND<10	57.5
	12/10/2015	ND<10	57.5
	6/15/2016	ND<10	57.5
	12/9/2016	ND<10	57.5
	6/14/2017	ND<10	57.5
	12/14/2017	ND<10	57.5
	6/20/2018	20	116
	12/18/2018	ND<10	57.5
	6/13/2019	ND<10	57.5
	12/11/2019	27.1	129
	6/23/2020	55.4	152
	12/17/2020	ND<10	57.5
Rank Sum = 914.5			
Rank Mean = 76.2083			
PH1-GWB-2	6/25/2015	23	124
	12/9/2015	49	149
	6/14/2016	59	154
	12/9/2016	31	134
	6/16/2017	36	141
	12/12/2017	25	125
	6/20/2018	31	135
	12/18/2018	28	130
	6/13/2019	33	138
	12/13/2019	38.3	144
	6/25/2020	25.4	126
	12/18/2020	21.6	122
Rank Sum = 1622			
Rank Mean = 135.167			
PH1-GWC-1	6/25/2015	ND<10	57.5
	12/9/2015	ND<10	57.5
	6/16/2016	ND<10	57.5
	12/9/2016	ND<10	57.5
	6/16/2017	ND<10	57.5
	12/12/2017	ND<10	57.5
	6/20/2018	ND<10	57.5
	12/20/2018	ND<10	57.5
	6/13/2019	ND<10	57.5
	12/12/2019	ND<10	57.5
	6/23/2020	32.5	137
	12/18/2020	ND<10	57.5
Rank Sum = 769.5			
Rank Mean = 64.125			
PH1-GWC-3	6/25/2015	ND<10	57.5
	12/10/2015	ND<10	57.5
	6/17/2016	ND<10	57.5
	12/9/2016	ND<10	57.5
	6/14/2017	ND<10	57.5

	12/13/2017	ND<10	57.5
	6/20/2018	ND<10	57.5
	12/19/2018	ND<10	57.5
	6/11/2019	ND<10	57.5
	12/10/2019	ND<10	57.5
	6/23/2020	ND<10	57.5
	12/16/2020	ND<10	57.5

Rank Sum = 690
Rank Mean = 57.5

PH1-GWC-3A	6/25/2015	ND<10	57.5
	12/10/2015	ND<10	57.5
	6/17/2016	ND<10	57.5
	12/9/2016	ND<10	57.5
	6/14/2017	ND<10	57.5
	12/13/2017	ND<10	57.5
	6/28/2018	21	120
	12/19/2018	ND<10	57.5
	6/11/2019	ND<10	57.5
	12/10/2019	ND<10	57.5
	6/23/2020	36.9	142
	12/16/2020	ND<10	57.5

Rank Sum = 837
Rank Mean = 69.75

PH1-GWC-4	6/25/2015	ND<10	57.5
	12/8/2015	ND<10	57.5
	6/14/2016	ND<10	57.5
	12/9/2016	21	121
	6/16/2017	20	117
	12/12/2017	28	131
	6/20/2018	ND<10	57.5
	12/20/2018	120	155
	6/13/2019	20	118
	6/23/2020	ND<10	57.5
	12/18/2020	ND<10	57.5

Rank Sum = 987
Rank Mean = 89.7273

Calculation Results:

Kruskal-Wallis H Statistic = 39.1055
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.9417
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
39.1055 > 19.6752 indicating a significant group difference at 5% significance level
64.9417 > 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 61.2708

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	57.5	-3.77083	36.9204
PH1-GWA-2	71.6667	10.3958	36.9204
PH1-GWB-1	89.5417	28.2708	36.9204
PH1-GWC-2	68.0833	6.8125	36.9204
PH1-GWA-1	**113.167**	**51.8958**	**36.9204**

GWC-1	76.2083	14.9375	36.9204
PH1-GWB-2	**135.167**	**73.8958**	**36.9204**
PH1-GWC-1	64.125	2.85417	36.9204
PH1-GWC-3	57.5	-3.77083	36.9204
PH1-GWC-3A	69.75	8.47917	36.9204
PH1-GWC-4	89.7273	28.4564	38.0227

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 61.2708

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	57.5	-3.77083	42.0901
PH1-GWA-2	71.6667	10.3958	42.0901
PH1-GWB-1	89.5417	28.2708	42.0901
PH1-GWC-2	68.0833	6.8125	42.0901
PH1-GWA-1	**113.167**	**51.8958**	**42.0901**
GWC-1	76.2083	14.9375	42.0901
PH1-GWB-2	**135.167**	**73.8958**	**42.0901**
PH1-GWC-1	64.125	2.85417	42.0901
PH1-GWC-3	57.5	-3.77083	42.0901
PH1-GWC-3A	69.75	8.47917	42.0901
PH1-GWC-4	89.7273	28.4564	43.3468

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 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-10	FALSE	1%
1,1-Dichloroethane	GWC-10A	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	GWC-19R	FALSE	1%
1,1-Dichloroethane	GWC-22	FALSE	1%
1,1-Dichloroethane	GWC-23	FALSE	1%
1,1-Dichloroethane	GWC-23A	FALSE	1%
1,1-Dichloroethane	GWC-24	FALSE	1%
1,1-Dichloroethane	GWC-6	FALSE	1%
1,1-Dichloroethane	GWC-9	FALSE	1%
1,1-Dichloroethane	GWA-1A	FALSE	1%
1,1-Dichloroethane	GWC-14A	TRUE	1%
1,1-Dichloroethane	GWC-14R	TRUE	1%
1,1-Dichloroethane	GWC-15	TRUE	1%
1,1-Dichloroethane	GWC-8	FALSE	1%
1,1-Dichloroethane	GWC-8R	TRUE	1%
1,1-Dichloroethane	GWC-16A	FALSE	1%
1,1-Dichloroethane	GWC-14	FALSE	1%
1,1-Dichloroethane	GWC-2	FALSE	1%
1,1-Dichloroethane	GWC-3	FALSE	1%
1,1-Dichloroethane	GWC-3A	FALSE	1%
1,1-Dichloroethane	GWC-4	FALSE	1%
1,1-Dichloroethane	GWC-4A	FALSE	1%
1,1-Dichloroethane	GWC-5	FALSE	1%
1,1-Dichloroethane	GWC-7	FALSE	1%
1,1-Dichloroethane	GWC-8A	TRUE	1%
1,1-Dichloroethane	GWA-3	FALSE	0.16%
1,1-Dichloroethane	GWC-10	FALSE	0.16%
1,1-Dichloroethane	GWC-10A	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%

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 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWC-17	FALSE	0.16%
1,1-Dichloroethane	GWC-18	FALSE	0.16%
1,1-Dichloroethane	GWC-19R	FALSE	0.16%
1,1-Dichloroethane	GWC-22	FALSE	0.16%
1,1-Dichloroethane	GWC-23	FALSE	0.16%
1,1-Dichloroethane	GWC-23A	FALSE	0.16%
1,1-Dichloroethane	GWC-24	FALSE	0.16%
1,1-Dichloroethane	GWC-6	FALSE	0.16%
1,1-Dichloroethane	GWC-9	FALSE	0.16%
1,1-Dichloroethane	GWA-1A	FALSE	0.16%
1,1-Dichloroethane	GWC-14A	TRUE	0.16%
1,1-Dichloroethane	GWC-14R	TRUE	0.16%
1,1-Dichloroethane	GWC-15	TRUE	0.16%
1,1-Dichloroethane	GWC-8	FALSE	0.16%
1,1-Dichloroethane	GWC-8R	TRUE	0.16%
1,1-Dichloroethane	GWC-16A	FALSE	0.16%
1,1-Dichloroethane	GWC-14	FALSE	0.16%
1,1-Dichloroethane	GWC-2	FALSE	0.16%
1,1-Dichloroethane	GWC-3	FALSE	0.16%
1,1-Dichloroethane	GWC-3A	FALSE	0.16%
1,1-Dichloroethane	GWC-4	FALSE	0.16%
1,1-Dichloroethane	GWC-4A	FALSE	0.16%
1,1-Dichloroethane	GWC-5	FALSE	0.16%
1,1-Dichloroethane	GWC-7	FALSE	0.16%
1,1-Dichloroethane	GWC-8A	TRUE	0.16%
Acetone	GWA-3	FALSE	1%
Acetone	GWC-10	FALSE	1%
Acetone	GWC-10A	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	GWC-19R	FALSE	1%
Acetone	GWC-22	FALSE	1%
Acetone	GWC-23	FALSE	1%
Acetone	GWC-23A	FALSE	1%
Acetone	GWC-24	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 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-6	FALSE	1%
Acetone	GWC-9	FALSE	1%
Acetone	GWA-1A	FALSE	1%
Acetone	GWC-14A	FALSE	1%
Acetone	GWC-14R	FALSE	1%
Acetone	GWC-15	FALSE	1%
Acetone	GWC-8	FALSE	1%
Acetone	GWC-8R	FALSE	1%
Acetone	GWC-16A	FALSE	1%
Acetone	GWC-14	FALSE	1%
Acetone	GWC-2	FALSE	1%
Acetone	GWC-3	FALSE	1%
Acetone	GWC-3A	FALSE	1%
Acetone	GWC-4	FALSE	1%
Acetone	GWC-4A	FALSE	1%
Acetone	GWC-5	FALSE	1%
Acetone	GWC-7	FALSE	1%
Acetone	GWC-8A	FALSE	1%
Acetone	GWA-3	FALSE	0.16%
Acetone	GWC-10	FALSE	0.16%
Acetone	GWC-10A	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	GWC-19R	FALSE	0.16%
Acetone	GWC-22	FALSE	0.16%
Acetone	GWC-23	FALSE	0.16%
Acetone	GWC-23A	FALSE	0.16%
Acetone	GWC-24	FALSE	0.16%
Acetone	GWC-6	FALSE	0.16%
Acetone	GWC-9	FALSE	0.16%
Acetone	GWA-1A	FALSE	0.16%
Acetone	GWC-14A	FALSE	0.16%
Acetone	GWC-14R	FALSE	0.16%
Acetone	GWC-15	FALSE	0.16%
Acetone	GWC-8	FALSE	0.16%

Notes:
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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 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-8R	FALSE	0.16%
Acetone	GWC-16A	FALSE	0.16%
Acetone	GWC-14	FALSE	0.16%
Acetone	GWC-2	FALSE	0.16%
Acetone	GWC-3	FALSE	0.16%
Acetone	GWC-3A	FALSE	0.16%
Acetone	GWC-4	FALSE	0.16%
Acetone	GWC-4A	FALSE	0.16%
Acetone	GWC-5	FALSE	0.16%
Acetone	GWC-7	FALSE	0.16%
Acetone	GWC-8A	FALSE	0.16%
Benzene	GWA-3	FALSE	1%
Benzene	GWC-10	FALSE	1%
Benzene	GWC-10A	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	GWC-19R	FALSE	1%
Benzene	GWC-22	FALSE	1%
Benzene	GWC-23	FALSE	1%
Benzene	GWC-23A	FALSE	1%
Benzene	GWC-24	FALSE	1%
Benzene	GWC-6	FALSE	1%
Benzene	GWC-9	FALSE	1%
Benzene	GWA-1A	FALSE	1%
Benzene	GWC-14A	TRUE	1%
Benzene	GWC-14R	FALSE	1%
Benzene	GWC-15	FALSE	1%
Benzene	GWC-8	FALSE	1%
Benzene	GWC-8R	FALSE	1%
Benzene	GWC-16A	FALSE	1%
Benzene	GWC-14	FALSE	1%
Benzene	GWC-2	FALSE	1%
Benzene	GWC-3	FALSE	1%
Benzene	GWC-3A	FALSE	1%
Benzene	GWC-4	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-4A	FALSE	1%
Benzene	GWC-5	FALSE	1%
Benzene	GWC-7	FALSE	1%
Benzene	GWC-8A	TRUE	1%
Benzene	GWA-3	FALSE	0.16%
Benzene	GWC-10	FALSE	0.16%
Benzene	GWC-10A	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	GWC-19R	FALSE	0.16%
Benzene	GWC-22	FALSE	0.16%
Benzene	GWC-23	FALSE	0.16%
Benzene	GWC-23A	FALSE	0.16%
Benzene	GWC-24	FALSE	0.16%
Benzene	GWC-6	FALSE	0.16%
Benzene	GWC-9	FALSE	0.16%
Benzene	GWA-1A	FALSE	0.16%
Benzene	GWC-14A	TRUE	0.16%
Benzene	GWC-14R	FALSE	0.16%
Benzene	GWC-15	FALSE	0.16%
Benzene	GWC-8	FALSE	0.16%
Benzene	GWC-8R	FALSE	0.16%
Benzene	GWC-16A	FALSE	0.16%
Benzene	GWC-14	FALSE	0.16%
Benzene	GWC-2	FALSE	0.16%
Benzene	GWC-3	FALSE	0.16%
Benzene	GWC-3A	FALSE	0.16%
Benzene	GWC-4	FALSE	0.16%
Benzene	GWC-4A	FALSE	0.16%
Benzene	GWC-5	FALSE	0.16%
Benzene	GWC-7	FALSE	0.16%
Benzene	GWC-8A	TRUE	0.16%
Chlorobenzene	GWA-3	FALSE	1%
Chlorobenzene	GWC-10	FALSE	1%
Chlorobenzene	GWC-10A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-11	FALSE	1%
Chlorobenzene	GWC-12	FALSE	1%
Chlorobenzene	GWC-12A	FALSE	1%
Chlorobenzene	GWC-13	FALSE	1%
Chlorobenzene	GWC-17	FALSE	1%
Chlorobenzene	GWC-18	FALSE	1%
Chlorobenzene	GWC-19R	FALSE	1%
Chlorobenzene	GWC-22	FALSE	1%
Chlorobenzene	GWC-23	FALSE	1%
Chlorobenzene	GWC-23A	FALSE	1%
Chlorobenzene	GWC-24	FALSE	1%
Chlorobenzene	GWC-6	FALSE	1%
Chlorobenzene	GWC-9	FALSE	1%
Chlorobenzene	GWA-1A	FALSE	1%
Chlorobenzene	GWC-14A	FALSE	1%
Chlorobenzene	GWC-14R	FALSE	1%
Chlorobenzene	GWC-15	FALSE	1%
Chlorobenzene	GWC-8	FALSE	1%
Chlorobenzene	GWC-8R	FALSE	1%
Chlorobenzene	GWC-16A	FALSE	1%
Chlorobenzene	GWC-14	FALSE	1%
Chlorobenzene	GWC-2	FALSE	1%
Chlorobenzene	GWC-3	FALSE	1%
Chlorobenzene	GWC-3A	FALSE	1%
Chlorobenzene	GWC-4	FALSE	1%
Chlorobenzene	GWC-4A	FALSE	1%
Chlorobenzene	GWC-5	FALSE	1%
Chlorobenzene	GWC-7	FALSE	1%
Chlorobenzene	GWC-8A	FALSE	1%
Chlorobenzene	GWA-3	FALSE	0.16%
Chlorobenzene	GWC-10	FALSE	0.16%
Chlorobenzene	GWC-10A	FALSE	0.16%
Chlorobenzene	GWC-11	FALSE	0.16%
Chlorobenzene	GWC-12	FALSE	0.16%
Chlorobenzene	GWC-12A	FALSE	0.16%
Chlorobenzene	GWC-13	FALSE	0.16%
Chlorobenzene	GWC-17	FALSE	0.16%
Chlorobenzene	GWC-18	FALSE	0.16%
Chlorobenzene	GWC-19R	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-22	FALSE	0.16%
Chlorobenzene	GWC-23	FALSE	0.16%
Chlorobenzene	GWC-23A	FALSE	0.16%
Chlorobenzene	GWC-24	FALSE	0.16%
Chlorobenzene	GWC-6	FALSE	0.16%
Chlorobenzene	GWC-9	FALSE	0.16%
Chlorobenzene	GWA-1A	FALSE	0.16%
Chlorobenzene	GWC-14A	FALSE	0.16%
Chlorobenzene	GWC-14R	FALSE	0.16%
Chlorobenzene	GWC-15	FALSE	0.16%
Chlorobenzene	GWC-8	FALSE	0.16%
Chlorobenzene	GWC-8R	FALSE	0.16%
Chlorobenzene	GWC-16A	FALSE	0.16%
Chlorobenzene	GWC-14	FALSE	0.16%
Chlorobenzene	GWC-2	FALSE	0.16%
Chlorobenzene	GWC-3	FALSE	0.16%
Chlorobenzene	GWC-3A	FALSE	0.16%
Chlorobenzene	GWC-4	FALSE	0.16%
Chlorobenzene	GWC-4A	FALSE	0.16%
Chlorobenzene	GWC-5	FALSE	0.16%
Chlorobenzene	GWC-7	FALSE	0.16%
Chlorobenzene	GWC-8A	FALSE	0.16%
Chloroethane	GWA-3	FALSE	1%
Chloroethane	GWC-10	FALSE	1%
Chloroethane	GWC-10A	FALSE	1%
Chloroethane	GWC-11	FALSE	1%
Chloroethane	GWC-12	FALSE	1%
Chloroethane	GWC-12A	FALSE	1%
Chloroethane	GWC-13	FALSE	1%
Chloroethane	GWC-17	FALSE	1%
Chloroethane	GWC-18	FALSE	1%
Chloroethane	GWC-19R	FALSE	1%
Chloroethane	GWC-22	FALSE	1%
Chloroethane	GWC-23	FALSE	1%
Chloroethane	GWC-23A	FALSE	1%
Chloroethane	GWC-24	FALSE	1%
Chloroethane	GWC-6	FALSE	1%
Chloroethane	GWC-9	FALSE	1%
Chloroethane	GWA-1A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-14A	TRUE	1%
Chloroethane	GWC-14R	FALSE	1%
Chloroethane	GWC-15	FALSE	1%
Chloroethane	GWC-8	FALSE	1%
Chloroethane	GWC-8R	FALSE	1%
Chloroethane	GWC-16A	FALSE	1%
Chloroethane	GWC-14	FALSE	1%
Chloroethane	GWC-2	FALSE	1%
Chloroethane	GWC-3	FALSE	1%
Chloroethane	GWC-3A	FALSE	1%
Chloroethane	GWC-4	FALSE	1%
Chloroethane	GWC-4A	FALSE	1%
Chloroethane	GWC-5	FALSE	1%
Chloroethane	GWC-7	FALSE	1%
Chloroethane	GWC-8A	FALSE	1%
Chloroethane	GWA-3	FALSE	0.16%
Chloroethane	GWC-10	FALSE	0.16%
Chloroethane	GWC-10A	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	GWC-19R	FALSE	0.16%
Chloroethane	GWC-22	FALSE	0.16%
Chloroethane	GWC-23	FALSE	0.16%
Chloroethane	GWC-23A	FALSE	0.16%
Chloroethane	GWC-24	FALSE	0.16%
Chloroethane	GWC-6	FALSE	0.16%
Chloroethane	GWC-9	FALSE	0.16%
Chloroethane	GWA-1A	FALSE	0.16%
Chloroethane	GWC-14A	TRUE	0.16%
Chloroethane	GWC-14R	FALSE	0.16%
Chloroethane	GWC-15	FALSE	0.16%
Chloroethane	GWC-8	FALSE	0.16%
Chloroethane	GWC-8R	FALSE	0.16%
Chloroethane	GWC-16A	FALSE	0.16%
Chloroethane	GWC-14	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-2	FALSE	0.16%
Chloroethane	GWC-3	FALSE	0.16%
Chloroethane	GWC-3A	FALSE	0.16%
Chloroethane	GWC-4	FALSE	0.16%
Chloroethane	GWC-4A	FALSE	0.16%
Chloroethane	GWC-5	FALSE	0.16%
Chloroethane	GWC-7	FALSE	0.16%
Chloroethane	GWC-8A	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-10	FALSE	1%
cis-1,2-Dichloroethene	GWC-10A	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	GWC-19R	TRUE	1%
cis-1,2-Dichloroethene	GWC-22	FALSE	1%
cis-1,2-Dichloroethene	GWC-23	FALSE	1%
cis-1,2-Dichloroethene	GWC-23A	FALSE	1%
cis-1,2-Dichloroethene	GWC-24	TRUE	1%
cis-1,2-Dichloroethene	GWC-6	FALSE	1%
cis-1,2-Dichloroethene	GWC-9	FALSE	1%
cis-1,2-Dichloroethene	GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	GWC-14A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14R	TRUE	1%
cis-1,2-Dichloroethene	GWC-15	TRUE	1%
cis-1,2-Dichloroethene	GWC-8	FALSE	1%
cis-1,2-Dichloroethene	GWC-8R	TRUE	1%
cis-1,2-Dichloroethene	GWC-16A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14	FALSE	1%
cis-1,2-Dichloroethene	GWC-2	FALSE	1%
cis-1,2-Dichloroethene	GWC-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-3A	FALSE	1%
cis-1,2-Dichloroethene	GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWC-4A	FALSE	1%
cis-1,2-Dichloroethene	GWC-5	FALSE	1%
cis-1,2-Dichloroethene	GWC-7	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-8A	TRUE	1%
cis-1,2-Dichloroethene	GWA-3	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-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	GWC-19R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-22	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23	FALSE	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-6	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-9	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-1A	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-15	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-8	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-16A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-14	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-2	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4	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-7	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8A	TRUE	0.16%
Tetrachloroethene	GWA-3	FALSE	1%
Tetrachloroethene	GWC-10	FALSE	1%
Tetrachloroethene	GWC-10A	FALSE	1%
Tetrachloroethene	GWC-11	FALSE	1%
Tetrachloroethene	GWC-12	FALSE	1%
Tetrachloroethene	GWC-12A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-13	FALSE	1%
Tetrachloroethene	GWC-17	FALSE	1%
Tetrachloroethene	GWC-18	TRUE	1%
Tetrachloroethene	GWC-19R	FALSE	1%
Tetrachloroethene	GWC-22	FALSE	1%
Tetrachloroethene	GWC-23	FALSE	1%
Tetrachloroethene	GWC-23A	FALSE	1%
Tetrachloroethene	GWC-24	FALSE	1%
Tetrachloroethene	GWC-6	FALSE	1%
Tetrachloroethene	GWC-9	FALSE	1%
Tetrachloroethene	GWA-1A	FALSE	1%
Tetrachloroethene	GWC-14A	FALSE	1%
Tetrachloroethene	GWC-14R	TRUE	1%
Tetrachloroethene	GWC-15	TRUE	1%
Tetrachloroethene	GWC-8	FALSE	1%
Tetrachloroethene	GWC-8R	FALSE	1%
Tetrachloroethene	GWC-16A	FALSE	1%
Tetrachloroethene	GWC-14	FALSE	1%
Tetrachloroethene	GWC-2	FALSE	1%
Tetrachloroethene	GWC-3	FALSE	1%
Tetrachloroethene	GWC-3A	FALSE	1%
Tetrachloroethene	GWC-4	FALSE	1%
Tetrachloroethene	GWC-4A	FALSE	1%
Tetrachloroethene	GWC-5	FALSE	1%
Tetrachloroethene	GWC-7	FALSE	1%
Tetrachloroethene	GWC-8A	FALSE	1%
Tetrachloroethene	GWA-3	FALSE	0.16%
Tetrachloroethene	GWC-10	FALSE	0.16%
Tetrachloroethene	GWC-10A	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	GWC-19R	FALSE	0.16%
Tetrachloroethene	GWC-22	FALSE	0.16%
Tetrachloroethene	GWC-23	FALSE	0.16%
Tetrachloroethene	GWC-23A	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-24	FALSE	0.16%
Tetrachloroethene	GWC-6	FALSE	0.16%
Tetrachloroethene	GWC-9	FALSE	0.16%
Tetrachloroethene	GWA-1A	FALSE	0.16%
Tetrachloroethene	GWC-14A	FALSE	0.16%
Tetrachloroethene	GWC-14R	FALSE	0.16%
Tetrachloroethene	GWC-15	TRUE	0.16%
Tetrachloroethene	GWC-8	FALSE	0.16%
Tetrachloroethene	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWC-16A	FALSE	0.16%
Tetrachloroethene	GWC-14	FALSE	0.16%
Tetrachloroethene	GWC-2	FALSE	0.16%
Tetrachloroethene	GWC-3	FALSE	0.16%
Tetrachloroethene	GWC-3A	FALSE	0.16%
Tetrachloroethene	GWC-4	FALSE	0.16%
Tetrachloroethene	GWC-4A	FALSE	0.16%
Tetrachloroethene	GWC-5	FALSE	0.16%
Tetrachloroethene	GWC-7	FALSE	0.16%
Tetrachloroethene	GWC-8A	FALSE	0.16%
Toluene	GWA-3	FALSE	1%
Toluene	GWC-10	FALSE	1%
Toluene	GWC-10A	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	GWC-19R	FALSE	1%
Toluene	GWC-22	FALSE	1%
Toluene	GWC-23	FALSE	1%
Toluene	GWC-23A	FALSE	1%
Toluene	GWC-24	FALSE	1%
Toluene	GWC-6	FALSE	1%
Toluene	GWC-9	FALSE	1%
Toluene	GWA-1A	FALSE	1%
Toluene	GWC-14A	FALSE	1%
Toluene	GWC-14R	FALSE	1%
Toluene	GWC-15	FALSE	1%

Notes:
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3. K-W detects are screened for false positives with NPTI.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-8	FALSE	1%
Toluene	GWC-8R	FALSE	1%
Toluene	GWC-16A	FALSE	1%
Toluene	GWC-14	FALSE	1%
Toluene	GWC-2	FALSE	1%
Toluene	GWC-3	FALSE	1%
Toluene	GWC-3A	FALSE	1%
Toluene	GWC-4	FALSE	1%
Toluene	GWC-4A	FALSE	1%
Toluene	GWC-5	FALSE	1%
Toluene	GWC-7	FALSE	1%
Toluene	GWC-8A	FALSE	1%
Toluene	GWA-3	FALSE	0.16%
Toluene	GWC-10	FALSE	0.16%
Toluene	GWC-10A	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	GWC-19R	FALSE	0.16%
Toluene	GWC-22	FALSE	0.16%
Toluene	GWC-23	FALSE	0.16%
Toluene	GWC-23A	FALSE	0.16%
Toluene	GWC-24	FALSE	0.16%
Toluene	GWC-6	FALSE	0.16%
Toluene	GWC-9	FALSE	0.16%
Toluene	GWA-1A	FALSE	0.16%
Toluene	GWC-14A	FALSE	0.16%
Toluene	GWC-14R	FALSE	0.16%
Toluene	GWC-15	FALSE	0.16%
Toluene	GWC-8	FALSE	0.16%
Toluene	GWC-8R	FALSE	0.16%
Toluene	GWC-16A	FALSE	0.16%
Toluene	GWC-14	FALSE	0.16%
Toluene	GWC-2	FALSE	0.16%
Toluene	GWC-3	FALSE	0.16%
Toluene	GWC-3A	FALSE	0.16%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-4	FALSE	0.16%
Toluene	GWC-4A	FALSE	0.16%
Toluene	GWC-5	FALSE	0.16%
Toluene	GWC-7	FALSE	0.16%
Toluene	GWC-8A	FALSE	0.16%
Trichloroethene	GWA-3	FALSE	1%
Trichloroethene	GWC-10	FALSE	1%
Trichloroethene	GWC-10A	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	GWC-19R	FALSE	1%
Trichloroethene	GWC-22	FALSE	1%
Trichloroethene	GWC-23	FALSE	1%
Trichloroethene	GWC-23A	FALSE	1%
Trichloroethene	GWC-24	FALSE	1%
Trichloroethene	GWC-6	FALSE	1%
Trichloroethene	GWC-9	FALSE	1%
Trichloroethene	GWA-1A	FALSE	1%
Trichloroethene	GWC-14A	TRUE	1%
Trichloroethene	GWC-14R	TRUE	1%
Trichloroethene	GWC-15	TRUE	1%
Trichloroethene	GWC-8	FALSE	1%
Trichloroethene	GWC-8R	FALSE	1%
Trichloroethene	GWC-16A	FALSE	1%
Trichloroethene	GWC-14	FALSE	1%
Trichloroethene	GWC-2	FALSE	1%
Trichloroethene	GWC-3	FALSE	1%
Trichloroethene	GWC-3A	FALSE	1%
Trichloroethene	GWC-4	FALSE	1%
Trichloroethene	GWC-4A	FALSE	1%
Trichloroethene	GWC-5	FALSE	1%
Trichloroethene	GWC-7	FALSE	1%
Trichloroethene	GWC-8A	FALSE	1%
Trichloroethene	GWA-3	FALSE	0.16%
Trichloroethene	GWC-10	FALSE	0.16%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-10A	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	GWC-19R	FALSE	0.16%
Trichloroethene	GWC-22	FALSE	0.16%
Trichloroethene	GWC-23	FALSE	0.16%
Trichloroethene	GWC-23A	FALSE	0.16%
Trichloroethene	GWC-24	FALSE	0.16%
Trichloroethene	GWC-6	FALSE	0.16%
Trichloroethene	GWC-9	FALSE	0.16%
Trichloroethene	GWA-1A	FALSE	0.16%
Trichloroethene	GWC-14A	TRUE	0.16%
Trichloroethene	GWC-14R	TRUE	0.16%
Trichloroethene	GWC-15	TRUE	0.16%
Trichloroethene	GWC-8	FALSE	0.16%
Trichloroethene	GWC-8R	FALSE	0.16%
Trichloroethene	GWC-16A	FALSE	0.16%
Trichloroethene	GWC-14	FALSE	0.16%
Trichloroethene	GWC-2	FALSE	0.16%
Trichloroethene	GWC-3	FALSE	0.16%
Trichloroethene	GWC-3A	FALSE	0.16%
Trichloroethene	GWC-4	FALSE	0.16%
Trichloroethene	GWC-4A	FALSE	0.16%
Trichloroethene	GWC-5	FALSE	0.16%
Trichloroethene	GWC-7	FALSE	0.16%
Trichloroethene	GWC-8A	FALSE	0.16%
Vinyl chloride	GWA-3	FALSE	1%
Vinyl chloride	GWC-10	FALSE	1%
Vinyl chloride	GWC-10A	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%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-19R	FALSE	1%
Vinyl chloride	GWC-22	FALSE	1%
Vinyl chloride	GWC-23	FALSE	1%
Vinyl chloride	GWC-23A	FALSE	1%
Vinyl chloride	GWC-24	FALSE	1%
Vinyl chloride	GWC-6	FALSE	1%
Vinyl chloride	GWC-9	FALSE	1%
Vinyl chloride	GWA-1A	FALSE	1%
Vinyl chloride	GWC-14A	TRUE	1%
Vinyl chloride	GWC-14R	FALSE	1%
Vinyl chloride	GWC-15	FALSE	1%
Vinyl chloride	GWC-8	FALSE	1%
Vinyl chloride	GWC-8R	FALSE	1%
Vinyl chloride	GWC-16A	FALSE	1%
Vinyl chloride	GWC-14	FALSE	1%
Vinyl chloride	GWC-2	FALSE	1%
Vinyl chloride	GWC-3	FALSE	1%
Vinyl chloride	GWC-3A	FALSE	1%
Vinyl chloride	GWC-4	FALSE	1%
Vinyl chloride	GWC-4A	FALSE	1%
Vinyl chloride	GWC-5	FALSE	1%
Vinyl chloride	GWC-7	FALSE	1%
Vinyl chloride	GWC-8A	FALSE	1%
Vinyl chloride	GWA-3	FALSE	0.16%
Vinyl chloride	GWC-10	FALSE	0.16%
Vinyl chloride	GWC-10A	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	GWC-19R	FALSE	0.16%
Vinyl chloride	GWC-22	FALSE	0.16%
Vinyl chloride	GWC-23	FALSE	0.16%
Vinyl chloride	GWC-23A	FALSE	0.16%
Vinyl chloride	GWC-24	FALSE	0.16%
Vinyl chloride	GWC-6	FALSE	0.16%
Vinyl chloride	GWC-9	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWA-1A	FALSE	0.16%
Vinyl chloride	GWC-14A	TRUE	0.16%
Vinyl chloride	GWC-14R	FALSE	0.16%
Vinyl chloride	GWC-15	FALSE	0.16%
Vinyl chloride	GWC-8	FALSE	0.16%
Vinyl chloride	GWC-8R	FALSE	0.16%
Vinyl chloride	GWC-16A	FALSE	0.16%
Vinyl chloride	GWC-14	FALSE	0.16%
Vinyl chloride	GWC-2	FALSE	0.16%
Vinyl chloride	GWC-3	FALSE	0.16%
Vinyl chloride	GWC-3A	FALSE	0.16%
Vinyl chloride	GWC-4	FALSE	0.16%
Vinyl chloride	GWC-4A	FALSE	0.16%
Vinyl chloride	GWC-5	FALSE	0.16%
Vinyl chloride	GWC-7	FALSE	0.16%
Vinyl chloride	GWC-8A	FALSE	0.16%
Total Barium	GWA-1A	FALSE	1%
Total Barium	GWA-3	FALSE	1%
Total Barium	GWC-10	FALSE	1%
Total Barium	GWC-10A	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	FALSE	1%
Total Barium	GWC-18	TRUE	1%
Total Barium	GWC-19R	TRUE	1%
Total Barium	GWC-22	FALSE	1%
Total Barium	GWC-23	FALSE	1%
Total Barium	GWC-23A	FALSE	1%
Total Barium	GWC-24	FALSE	1%
Total Barium	GWC-6	FALSE	1%
Total Barium	GWC-9	TRUE	1%
Total Barium	GWC-16A	FALSE	1%
Total Barium	GWC-14	FALSE	1%
Total Barium	GWC-14A	TRUE	1%
Total Barium	GWC-15	TRUE	1%
Total Barium	GWC-8	FALSE	1%
Total Barium	GWC-8A	TRUE	1%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	GWC-2	FALSE	1%
Total Barium	GWC-3	FALSE	1%
Total Barium	GWC-3A	FALSE	1%
Total Barium	GWC-4	FALSE	1%
Total Barium	GWC-4A	FALSE	1%
Total Barium	GWC-5	FALSE	1%
Total Barium	GWC-7	TRUE	1%
Total Barium	GWA-1A	FALSE	0.17%
Total Barium	GWA-3	FALSE	0.17%
Total Barium	GWC-10	FALSE	0.17%
Total Barium	GWC-10A	FALSE	0.17%
Total Barium	GWC-11	FALSE	0.17%
Total Barium	GWC-12	FALSE	0.17%
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-19R	TRUE	0.17%
Total Barium	GWC-22	FALSE	0.17%
Total Barium	GWC-23	FALSE	0.17%
Total Barium	GWC-23A	FALSE	0.17%
Total Barium	GWC-24	FALSE	0.17%
Total Barium	GWC-6	FALSE	0.17%
Total Barium	GWC-9	TRUE	0.17%
Total Barium	GWC-16A	FALSE	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-8	FALSE	0.17%
Total Barium	GWC-8A	FALSE	0.17%
Total Barium	GWC-2	FALSE	0.17%
Total Barium	GWC-3	FALSE	0.17%
Total Barium	GWC-3A	FALSE	0.17%
Total Barium	GWC-4	FALSE	0.17%
Total Barium	GWC-4A	FALSE	0.17%
Total Barium	GWC-5	FALSE	0.17%
Total Barium	GWC-7	FALSE	0.17%
Total Chromium	GWA-1A	FALSE	1%
Total Chromium	GWA-3	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-10	FALSE	1%
Total Chromium	GWC-10A	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-19R	FALSE	1%
Total Chromium	GWC-22	FALSE	1%
Total Chromium	GWC-23	FALSE	1%
Total Chromium	GWC-23A	FALSE	1%
Total Chromium	GWC-24	FALSE	1%
Total Chromium	GWC-6	FALSE	1%
Total Chromium	GWC-9	FALSE	1%
Total Chromium	GWC-16A	FALSE	1%
Total Chromium	GWC-14	FALSE	1%
Total Chromium	GWC-14A	FALSE	1%
Total Chromium	GWC-15	FALSE	1%
Total Chromium	GWC-8	FALSE	1%
Total Chromium	GWC-8A	FALSE	1%
Total Chromium	GWC-2	FALSE	1%
Total Chromium	GWC-3	FALSE	1%
Total Chromium	GWC-3A	FALSE	1%
Total Chromium	GWC-4	FALSE	1%
Total Chromium	GWC-4A	FALSE	1%
Total Chromium	GWC-5	FALSE	1%
Total Chromium	GWC-7	FALSE	1%
Total Chromium	GWA-1A	FALSE	0.17%
Total Chromium	GWA-3	FALSE	0.17%
Total Chromium	GWC-10	FALSE	0.17%
Total Chromium	GWC-10A	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-19R	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-22	FALSE	0.17%
Total Chromium	GWC-23	FALSE	0.17%
Total Chromium	GWC-23A	FALSE	0.17%
Total Chromium	GWC-24	FALSE	0.17%
Total Chromium	GWC-6	FALSE	0.17%
Total Chromium	GWC-9	FALSE	0.17%
Total Chromium	GWC-16A	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-8	FALSE	0.17%
Total Chromium	GWC-8A	FALSE	0.17%
Total Chromium	GWC-2	FALSE	0.17%
Total Chromium	GWC-3	FALSE	0.17%
Total Chromium	GWC-3A	FALSE	0.17%
Total Chromium	GWC-4	FALSE	0.17%
Total Chromium	GWC-4A	FALSE	0.17%
Total Chromium	GWC-5	FALSE	0.17%
Total Chromium	GWC-7	FALSE	0.17%
Total Cobalt	GWA-1A	FALSE	1%
Total Cobalt	GWA-3	FALSE	1%
Total Cobalt	GWC-10	FALSE	1%
Total Cobalt	GWC-10A	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-19R	FALSE	1%
Total Cobalt	GWC-22	FALSE	1%
Total Cobalt	GWC-23	FALSE	1%
Total Cobalt	GWC-23A	FALSE	1%
Total Cobalt	GWC-24	FALSE	1%
Total Cobalt	GWC-6	FALSE	1%
Total Cobalt	GWC-9	FALSE	1%
Total Cobalt	GWC-16A	FALSE	1%
Total Cobalt	GWC-14	TRUE	1%
Total Cobalt	GWC-14A	TRUE	1%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-15	FALSE	1%
Total Cobalt	GWC-8	FALSE	1%
Total Cobalt	GWC-8A	FALSE	1%
Total Cobalt	GWC-2	FALSE	1%
Total Cobalt	GWC-3	FALSE	1%
Total Cobalt	GWC-3A	FALSE	1%
Total Cobalt	GWC-4	FALSE	1%
Total Cobalt	GWC-4A	FALSE	1%
Total Cobalt	GWC-5	FALSE	1%
Total Cobalt	GWC-7	FALSE	1%
Total Cobalt	GWA-1A	FALSE	0.17%
Total Cobalt	GWA-3	FALSE	0.17%
Total Cobalt	GWC-10	FALSE	0.17%
Total Cobalt	GWC-10A	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-19R	FALSE	0.17%
Total Cobalt	GWC-22	FALSE	0.17%
Total Cobalt	GWC-23	FALSE	0.17%
Total Cobalt	GWC-23A	FALSE	0.17%
Total Cobalt	GWC-24	FALSE	0.17%
Total Cobalt	GWC-6	FALSE	0.17%
Total Cobalt	GWC-9	FALSE	0.17%
Total Cobalt	GWC-16A	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-8	FALSE	0.17%
Total Cobalt	GWC-8A	FALSE	0.17%
Total Cobalt	GWC-2	FALSE	0.17%
Total Cobalt	GWC-3	FALSE	0.17%
Total Cobalt	GWC-3A	FALSE	0.17%
Total Cobalt	GWC-4	FALSE	0.17%
Total Cobalt	GWC-4A	FALSE	0.17%
Total Cobalt	GWC-5	FALSE	0.17%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-7	FALSE	0.17%
Total Nickel	GWA-1A	FALSE	1%
Total Nickel	GWA-3	FALSE	1%
Total Nickel	GWC-10	FALSE	1%
Total Nickel	GWC-10A	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-19R	FALSE	1%
Total Nickel	GWC-22	FALSE	1%
Total Nickel	GWC-23	FALSE	1%
Total Nickel	GWC-23A	FALSE	1%
Total Nickel	GWC-24	FALSE	1%
Total Nickel	GWC-6	FALSE	1%
Total Nickel	GWC-9	FALSE	1%
Total Nickel	GWC-16A	FALSE	1%
Total Nickel	GWC-14	FALSE	1%
Total Nickel	GWC-14A	TRUE	1%
Total Nickel	GWC-15	FALSE	1%
Total Nickel	GWC-8	FALSE	1%
Total Nickel	GWC-8A	FALSE	1%
Total Nickel	GWC-2	FALSE	1%
Total Nickel	GWC-3	FALSE	1%
Total Nickel	GWC-3A	FALSE	1%
Total Nickel	GWC-4	FALSE	1%
Total Nickel	GWC-4A	FALSE	1%
Total Nickel	GWC-5	FALSE	1%
Total Nickel	GWC-7	FALSE	1%
Total Nickel	GWA-1A	FALSE	0.17%
Total Nickel	GWA-3	FALSE	0.17%
Total Nickel	GWC-10	FALSE	0.17%
Total Nickel	GWC-10A	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%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-17	FALSE	0.17%
Total Nickel	GWC-18	FALSE	0.17%
Total Nickel	GWC-19R	FALSE	0.17%
Total Nickel	GWC-22	FALSE	0.17%
Total Nickel	GWC-23	FALSE	0.17%
Total Nickel	GWC-23A	FALSE	0.17%
Total Nickel	GWC-24	FALSE	0.17%
Total Nickel	GWC-6	FALSE	0.17%
Total Nickel	GWC-9	FALSE	0.17%
Total Nickel	GWC-16A	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-8	FALSE	0.17%
Total Nickel	GWC-8A	FALSE	0.17%
Total Nickel	GWC-2	FALSE	0.17%
Total Nickel	GWC-3	FALSE	0.17%
Total Nickel	GWC-3A	FALSE	0.17%
Total Nickel	GWC-4	FALSE	0.17%
Total Nickel	GWC-4A	FALSE	0.17%
Total Nickel	GWC-5	FALSE	0.17%
Total Nickel	GWC-7	FALSE	0.17%
Total Zinc	GWA-1A	FALSE	1%
Total Zinc	GWA-3	FALSE	1%
Total Zinc	GWC-10	FALSE	1%
Total Zinc	GWC-10A	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-19R	FALSE	1%
Total Zinc	GWC-22	FALSE	1%
Total Zinc	GWC-23	FALSE	1%
Total Zinc	GWC-23A	FALSE	1%
Total Zinc	GWC-24	FALSE	1%
Total Zinc	GWC-6	FALSE	1%
Total Zinc	GWC-9	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 - Phases II-IV
Second 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-16A	FALSE	1%
Total Zinc	GWC-14	FALSE	1%
Total Zinc	GWC-14A	FALSE	1%
Total Zinc	GWC-15	FALSE	1%
Total Zinc	GWC-8	FALSE	1%
Total Zinc	GWC-8A	FALSE	1%
Total Zinc	GWC-2	FALSE	1%
Total Zinc	GWC-3	FALSE	1%
Total Zinc	GWC-3A	FALSE	1%
Total Zinc	GWC-4	FALSE	1%
Total Zinc	GWC-4A	FALSE	1%
Total Zinc	GWC-5	FALSE	1%
Total Zinc	GWC-7	FALSE	1%
Total Zinc	GWA-1A	FALSE	0.17%
Total Zinc	GWA-3	FALSE	0.17%
Total Zinc	GWC-10	FALSE	0.17%
Total Zinc	GWC-10A	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%
Total Zinc	GWC-18	FALSE	0.17%
Total Zinc	GWC-19R	FALSE	0.17%
Total Zinc	GWC-22	FALSE	0.17%
Total Zinc	GWC-23	FALSE	0.17%
Total Zinc	GWC-23A	FALSE	0.17%
Total Zinc	GWC-24	FALSE	0.17%
Total Zinc	GWC-6	FALSE	0.17%
Total Zinc	GWC-9	FALSE	0.17%
Total Zinc	GWC-16A	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-8	FALSE	0.17%
Total Zinc	GWC-8A	FALSE	0.17%
Total Zinc	GWC-2	FALSE	0.17%
Total Zinc	GWC-3	FALSE	0.17%
Total Zinc	GWC-3A	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 2020 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-4	FALSE	0.17%
Total Zinc	GWC-4A	FALSE	0.17%
Total Zinc	GWC-5	FALSE	0.17%
Total Zinc	GWC-7	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.

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	6/23/2015	ND<1	169
	12/8/2015	ND<1	169
	6/14/2016	ND<1	169
	12/7/2016	ND<1	169
	6/13/2017	ND<1	169
	12/11/2017	ND<1	169
	6/19/2018	ND<1	169
	12/17/2018	ND<1	169
	6/10/2019	ND<1	169
	12/9/2019	ND<1	169
	6/23/2020	ND<1	169
	12/17/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWA-2	6/24/2015	ND<1	169
	12/7/2015	ND<1	169
	6/13/2016	ND<1	169
	12/8/2016	ND<1	169
	6/15/2017	ND<1	169
	12/11/2017	ND<1	169
	6/19/2018	ND<1	169
	12/17/2018	ND<1	169
	6/11/2019	ND<1	169
	12/11/2019	ND<1	169
	6/22/2020	ND<1	169
	12/17/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			

Background Rank Sum = 4056
Background Rank Mean = 169

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	169
	12/7/2015	ND<1	169
	6/13/2016	ND<1	169
	12/8/2016	ND<1	169
	6/14/2017	ND<1	169
	12/11/2017	ND<1	169
	6/18/2018	ND<1	169
	12/17/2018	ND<1	169
	6/11/2019	ND<1	169
	12/10/2019	ND<1	169
	6/22/2020	ND<1	169

	12/16/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-10	6/22/2015	ND<1	169
	12/7/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/15/2017	ND<1	169
	12/12/2017	ND<1	169
	6/19/2018	ND<1	169
	12/17/2018	ND<1	169
	6/10/2019	ND<1	169
	12/12/2019	ND<1	169
	6/24/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-10A	6/22/2015	ND<1	169
	12/7/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/15/2017	ND<1	169
	12/12/2017	ND<1	169
	6/19/2018	ND<1	169
	12/17/2018	ND<1	169
	6/10/2019	ND<1	169
	12/12/2019	ND<1	169
	6/24/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-11	6/22/2015	ND<1	169
	12/7/2015	ND<1	169
	6/14/2016	ND<1	169
	12/7/2016	ND<1	169
	6/14/2017	ND<1	169
	12/13/2017	ND<1	169
	6/19/2018	ND<1	169
	12/19/2018	ND<1	169
	6/12/2019	ND<1	169
	12/12/2019	ND<1	169
	6/24/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-12	6/22/2015	ND<1	169
	12/7/2015	ND<1	169
	6/14/2016	ND<1	169
	12/7/2016	ND<1	169
	6/14/2017	ND<1	169
	12/13/2017	ND<1	169
	6/19/2018	ND<1	169
	12/19/2018	ND<1	169

	6/11/2019	ND<1	169
	12/9/2019	ND<1	169
	6/24/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-12A	6/22/2015	ND<1	169
	12/7/2015	ND<1	169
	6/14/2016	ND<1	169
	12/7/2016	ND<1	169
	6/14/2017	ND<1	169
	12/13/2017	ND<1	169
	6/19/2018	ND<1	169
	12/19/2018	ND<1	169
	6/11/2019	ND<1	169
	12/9/2019	ND<1	169
	6/24/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-13	6/22/2015	ND<1	169
	12/7/2015	ND<1	169
	6/15/2016	ND<1	169
	12/7/2016	ND<1	169
	6/14/2017	ND<1	169
	12/12/2017	ND<1	169
	6/19/2018	ND<1	169
	12/19/2018	ND<1	169
	6/12/2019	ND<1	169
	12/11/2019	ND<1	169
	6/23/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-17	6/22/2015	ND<1	169
	12/8/2015	ND<1	169
	6/13/2016	ND<1	169
	6/14/2017	ND<1	169
	12/12/2017	ND<1	169
	6/19/2018	ND<1	169
	12/19/2018	ND<1	169
	6/12/2019	ND<1	169
	12/10/2019	ND<1	169
	6/23/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 1859			
Rank Mean = 169			
GWC-18	6/22/2015	2.7	340
	12/9/2015	ND<1	169
	6/13/2016	ND<1	169
	12/6/2016	ND<1	169
	6/14/2017	ND<1	169
	12/13/2017	ND<1	169

	6/19/2018	ND<1	169
	12/18/2018	ND<1	169
	6/11/2019	ND<1	169
	12/9/2019	ND<1	169
	6/23/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2199			
Rank Mean = 183.25			
GWC-19R	6/22/2015	ND<1	169
	12/9/2015	ND<1	169
	6/15/2016	ND<1	169
	12/6/2016	ND<1	169
	6/14/2017	ND<1	169
	12/13/2017	ND<1	169
	6/19/2018	ND<1	169
	12/18/2018	ND<1	169
	6/11/2019	ND<1	169
	12/9/2019	ND<1	169
	6/23/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-22	6/22/2015	ND<1	169
	12/9/2015	ND<1	169
	6/15/2016	ND<1	169
	12/6/2016	ND<1	169
	6/14/2017	ND<1	169
	12/11/2017	ND<1	169
	6/19/2018	ND<1	169
	12/18/2018	ND<1	169
	6/12/2019	ND<1	169
	12/11/2019	ND<1	169
	6/23/2020	ND<1	169
	12/17/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-23	6/22/2015	ND<1	169
	12/8/2015	ND<1	169
	6/15/2016	ND<1	169
	12/6/2016	ND<1	169
	6/14/2017	ND<1	169
	12/11/2017	ND<1	169
	6/18/2018	ND<1	169
	12/18/2018	ND<1	169
	6/12/2019	ND<1	169
	12/11/2019	ND<1	169
	6/24/2020	ND<1	169
	12/16/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			
GWC-23A	6/22/2015	ND<1	169
	12/8/2015	ND<1	169
	6/15/2016	ND<1	169

	12/6/2016	ND<1	169
	6/14/2017	ND<1	169
	12/11/2017	ND<1	169
	6/18/2018	ND<1	169
	12/18/2018	ND<1	169
	6/12/2019	ND<1	169
	12/11/2019	ND<1	169
	6/24/2020	ND<1	169
	12/16/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			

GWC-24	6/22/2015	ND<1	169
	12/8/2015	ND<1	169
	6/13/2016	ND<1	169
	12/7/2016	ND<1	169
	6/14/2017	ND<1	169
	12/13/2017	ND<1	169
	6/19/2018	ND<1	169
	12/19/2018	ND<1	169
	6/11/2019	ND<1	169
	12/9/2019	ND<1	169
	6/24/2020	ND<1	169
	12/15/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			

GWC-6	6/22/2015	ND<1	169
	12/8/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/12/2017	ND<1	169
	12/13/2017	ND<1	169
	6/21/2018	ND<1	169
	12/19/2018	ND<1	169
	6/12/2019	ND<1	169
	12/10/2019	ND<1	169
	6/24/2020	ND<1	169
	12/17/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			

GWC-9	6/22/2015	ND<1	169
	12/8/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/15/2017	ND<1	169
	12/13/2017	ND<1	169
	6/20/2018	ND<1	169
	12/18/2018	ND<1	169
	6/12/2019	ND<1	169
	12/12/2019	ND<1	169
	6/24/2020	ND<1	169
	12/17/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			

GWA-1A	6/23/2015	ND<1	169
	12/8/2015	ND<1	169
	6/14/2016	ND<1	169
	12/7/2016	ND<1	169
	6/12/2017	ND<1	169
	12/13/2017	ND<1	169
	6/19/2018	ND<1	169
	12/18/2018	ND<1	169
	6/10/2019	ND<1	169
	12/9/2019	ND<1	169
	6/23/2020	ND<1	169
	12/17/2020	ND<1	169
Rank Sum = 2028			
Rank Mean = 169			

GWC-14A	6/23/2015	13	363
	12/9/2015	16	372
	6/15/2016	16	373
	12/8/2016	22	385
	6/13/2017	16	374
	12/12/2017	23	389
	6/20/2018	17	377
	12/19/2018	16	375
	6/11/2019	9.2	357
	12/10/2019	14	366
	6/24/2020	10	359
	12/15/2020	11	360
Rank Sum = 4450			
Rank Mean = 370.833			

GWC-14R	6/23/2015	25	392
	12/10/2015	22	386
	6/15/2016	26	393
	12/8/2016	24	391
	6/13/2017	21	384
	12/12/2017	20	383
	6/20/2018	22	387
	12/19/2018	18	378
	6/12/2019	18	379
	12/10/2019	14	367
	6/23/2020	18	380
	12/17/2020	19	382
Rank Sum = 4602			
Rank Mean = 383.5			

GWC-15	6/23/2015	ND<1	169
	12/9/2015	5.2	355
	6/15/2016	ND<1	169
	12/8/2016	38	395
	6/14/2017	2.9	341
	12/13/2017	3.7	347
	6/19/2018	ND<1	169
	12/19/2018	3	342
	6/11/2019	38	396
	12/10/2019	23	390
	6/25/2020	39	397
	12/17/2020	33	394

Rank Sum = 3864
Rank Mean = 322

GWC-8	6/23/2015	ND<1	169
	12/10/2015	ND<1	169
	6/15/2016	ND<1	169
	12/8/2016	ND<1	169
	12/12/2017	ND<1	169
	6/20/2018	ND<1	169
	12/19/2018	ND<1	169
	6/12/2019	ND<1	169
	12/11/2019	ND<1	169
	6/23/2020	ND<1	169
	12/16/2020	ND<1	169

Rank Sum = 1859
Rank Mean = 169

GWC-8R	6/23/2015	16	376
	12/10/2015	18	381
	6/15/2016	15	370
	12/8/2016	15	371
	6/13/2017	14	368
	12/12/2017	14	369
	6/20/2018	22	388
	12/19/2018	13	364
	6/12/2019	12	361
	12/11/2019	9.3	358
	6/23/2020	13	365
	12/15/2020	12	362

Rank Sum = 4433
Rank Mean = 369.417

GWC-16A	6/24/2015	ND<1	169
	12/9/2015	5.5	356
	6/16/2016	ND<1	169
	12/7/2016	ND<1	169
	6/14/2017	3.7	348
	12/13/2017	ND<1	169
	6/21/2018	ND<1	169
	12/19/2018	ND<1	169
	6/13/2019	ND<1	169
	12/11/2019	ND<1	169
	6/23/2020	ND<1	169
	12/17/2020	ND<1	169

Rank Sum = 2394
Rank Mean = 199.5

GWC-14	6/24/2015	ND<1	169
	12/9/2015	ND<1	169
	6/15/2016	ND<1	169
	6/13/2017	ND<1	169
	6/20/2018	ND<1	169
	6/11/2019	ND<1	169
	12/10/2019	ND<1	169
	6/24/2020	ND<1	169
	12/17/2020	ND<1	169

Rank Sum = 1521

Rank Mean = 169

GWC-2	6/24/2015	ND<1	169
	12/9/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/15/2017	ND<1	169
	12/13/2017	ND<1	169
	6/20/2018	ND<1	169
	12/19/2018	ND<1	169
	6/12/2019	ND<1	169
	12/10/2019	ND<1	169
	6/22/2020	ND<1	169
	12/16/2020	ND<1	169

Rank Sum = 2028
Rank Mean = 169

GWC-3	6/24/2015	ND<1	169
	12/9/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/15/2017	ND<1	169
	6/21/2018	ND<1	169
	12/17/2018	ND<1	169
	6/11/2019	ND<1	169
	12/10/2019	ND<1	169
	6/24/2020	ND<1	169
	12/16/2020	ND<1	169

Rank Sum = 1859
Rank Mean = 169

GWC-3A	6/24/2015	ND<1	169
	12/9/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/15/2017	ND<1	169
	12/12/2017	ND<1	169
	6/20/2018	ND<1	169
	12/17/2018	ND<1	169
	6/11/2019	ND<1	169
	12/10/2019	ND<1	169
	6/24/2020	ND<1	169
	12/16/2020	ND<1	169

Rank Sum = 2028
Rank Mean = 169

GWC-4	6/24/2015	ND<1	169
	12/9/2015	ND<1	169
	6/16/2016	ND<1	169
	12/7/2016	ND<1	169
	6/20/2018	ND<1	169
	6/23/2020	ND<1	169
	12/17/2020	ND<1	169

Rank Sum = 1183
Rank Mean = 169

GWC-4A	6/24/2015	ND<1	169

	12/9/2015	ND<1	169
	6/16/2016	ND<1	169
	12/7/2016	ND<1	169
	6/13/2017	ND<1	169
	12/12/2017	ND<1	169
	6/20/2018	ND<1	169
	12/17/2018	ND<1	169
	6/11/2019	ND<1	169
	12/11/2019	ND<1	169
	6/23/2020	ND<1	169
	12/17/2020	ND<1	169

Rank Sum = 2028
Rank Mean = 169

GWC-5	6/24/2015	ND<1	169
	12/7/2015	ND<1	169
	6/14/2016	ND<1	169
	12/8/2016	ND<1	169
	6/12/2017	ND<1	169
	12/12/2017	ND<1	169
	6/21/2018	ND<1	169
	12/18/2018	ND<1	169
	6/12/2019	ND<1	169
	12/10/2019	ND<1	169
	6/23/2020	ND<1	169
	12/17/2020	ND<1	169

Rank Sum = 2028
Rank Mean = 169

GWC-7	6/24/2015	ND<1	169
	12/7/2015	ND<1	169
	6/15/2016	ND<1	169
	12/8/2016	ND<1	169
	6/12/2017	ND<1	169
	12/12/2017	ND<1	169
	6/19/2018	ND<1	169
	12/18/2018	ND<1	169
	6/12/2019	ND<1	169
	12/11/2019	ND<1	169
	6/24/2020	ND<1	169
	12/17/2020	ND<1	169

Rank Sum = 2028
Rank Mean = 169

GWC-8A	6/24/2015	3	343
	12/10/2015	3.8	350
	6/15/2016	3.4	346
	12/8/2016	5.1	354
	6/13/2017	3	344
	12/12/2017	4.9	353
	6/20/2018	3.9	351
	12/19/2018	4.2	352
	6/12/2019	2.6	339
	12/11/2019	3.7	349
	6/23/2020	2.4	338
	12/15/2020	3.2	345

Rank Sum = 4164

Rank Mean = 347

Calculation Results:

Kruskal-Wallis H Statistic = 139.77
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 359.927
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
139.77 > 46.1942 indicating a significant group difference at 5% significance level
359.927 > 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 169

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	169	0	94.3789
GWC-10	169	0	94.3789
GWC-10A	169	0	94.3789
GWC-11	169	0	94.3789
GWC-12	169	0	94.3789
GWC-12A	169	0	94.3789
GWC-13	169	0	94.3789
GWC-17	169	0	97.1968
GWC-18	183.25	14.25	94.3789
GWC-19R	169	0	94.3789
GWC-22	169	0	94.3789
GWC-23	169	0	94.3789
GWC-23A	169	0	94.3789
GWC-24	169	0	94.3789
GWC-6	169	0	94.3789
GWC-9	169	0	94.3789
GWA-1A	169	0	94.3789
GWC-14A	**370.833**	**201.833**	**94.3789**
GWC-14R	**383.5**	**214.5**	**94.3789**
GWC-15	**322**	**153**	**94.3789**
GWC-8	169	0	97.1968
GWC-8R	**369.417**	**200.417**	**94.3789**
GWC-16A	199.5	30.5	94.3789
GWC-14	169	0	104.34
GWC-2	169	0	94.3789
GWC-3	169	0	97.1968
GWC-3A	169	0	94.3789
GWC-4	169	0	114.669
GWC-4A	169	0	94.3789
GWC-5	169	0	94.3789
GWC-7	169	0	94.3789
GWC-8A	**347**	**178**	**94.3789**

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 169

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	169	0	125.37
GWC-10	169	0	125.37
GWC-10A	169	0	125.37
GWC-11	169	0	125.37

GWC-12	169	0	125.37
GWC-12A	169	0	125.37
GWC-13	169	0	125.37
GWC-17	169	0	129.113
GWC-18	183.25	14.25	125.37
GWC-19R	169	0	125.37
GWC-22	169	0	125.37
GWC-23	169	0	125.37
GWC-23A	169	0	125.37
GWC-24	169	0	125.37
GWC-6	169	0	125.37
GWC-9	169	0	125.37
GWA-1A	169	0	125.37
GWC-14A	**370.833**	**201.833**	**125.37**
GWC-14R	**383.5**	**214.5**	**125.37**
GWC-15	**322**	**153**	**125.37**
GWC-8	169	0	129.113
GWC-8R	**369.417**	**200.417**	**125.37**
GWC-16A	199.5	30.5	125.37
GWC-14	169	0	138.602
GWC-2	169	0	125.37
GWC-3	169	0	129.113
GWC-3A	169	0	125.37
GWC-4	169	0	152.323
GWC-4A	169	0	125.37
GWC-5	169	0	125.37
GWC-7	169	0	125.37
GWC-8A	**347**	**178**	**125.37**

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	6/23/2015	ND<50	198
	12/8/2015	ND<50	198
	6/14/2016	ND<50	198
	12/7/2016	ND<50	198
	6/13/2017	ND<50	198
	12/11/2017	ND<50	198
	6/19/2018	ND<50	198
	12/17/2018	ND<50	198
	6/10/2019	ND<50	198
	12/9/2019	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWA-2	6/24/2015	ND<50	198
	12/7/2015	ND<50	198
	6/13/2016	ND<50	198
	12/8/2016	ND<50	198
	6/15/2017	ND<50	198
	12/11/2017	ND<50	198
	6/19/2018	ND<50	198
	12/17/2018	ND<50	198
	6/11/2019	ND<50	198
	12/11/2019	ND<50	198
	6/22/2020	ND<50	198
	12/17/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			

Background Rank Sum = 4752

Background Rank Mean = 198

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<50	198
	12/7/2015	ND<50	198
	6/13/2016	ND<50	198
	12/8/2016	ND<50	198
	6/14/2017	ND<50	198
	12/11/2017	ND<50	198
	6/18/2018	ND<50	198
	12/17/2018	ND<50	198
	6/11/2019	ND<50	198
	12/10/2019	ND<50	198
	6/22/2020	ND<50	198

	12/16/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-10	6/22/2015	ND<50	198
	12/7/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/15/2017	ND<50	198
	12/12/2017	ND<50	198
	6/19/2018	ND<50	198
	12/17/2018	ND<50	198
	6/10/2019	ND<50	198
	12/12/2019	ND<50	198
	6/24/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-10A	6/22/2015	ND<50	198
	12/7/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/15/2017	ND<50	198
	12/12/2017	ND<50	198
	6/19/2018	ND<50	198
	12/17/2018	ND<50	198
	6/10/2019	ND<50	198
	12/12/2019	ND<50	198
	6/24/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-11	6/22/2015	ND<50	198
	12/7/2015	ND<50	198
	6/14/2016	ND<50	198
	12/7/2016	ND<50	198
	6/14/2017	ND<50	198
	12/13/2017	ND<50	198
	6/19/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/12/2019	ND<50	198
	6/24/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-12	6/22/2015	ND<50	198
	12/7/2015	ND<50	198
	6/14/2016	ND<50	198
	12/7/2016	ND<50	198
	6/14/2017	ND<50	198
	12/13/2017	ND<50	198
	6/19/2018	ND<50	198
	12/19/2018	ND<50	198

	6/11/2019	ND<50	198
	12/9/2019	ND<50	198
	6/24/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-12A	6/22/2015	ND<50	198
	12/7/2015	ND<50	198
	6/14/2016	ND<50	198
	12/7/2016	ND<50	198
	6/14/2017	ND<50	198
	12/13/2017	ND<50	198
	6/19/2018	ND<50	198
	12/19/2018	ND<50	198
	6/11/2019	ND<50	198
	12/9/2019	ND<50	198
	6/24/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-13	6/22/2015	ND<50	198
	12/7/2015	ND<50	198
	6/15/2016	ND<50	198
	12/7/2016	ND<50	198
	6/14/2017	ND<50	198
	12/12/2017	ND<50	198
	6/19/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/23/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-17	6/22/2015	ND<50	198
	12/8/2015	ND<50	198
	6/13/2016	ND<50	198
	6/14/2017	ND<50	198
	12/12/2017	ND<50	198
	6/19/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/10/2019	ND<50	198
	6/23/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2178			
Rank Mean = 198			
GWC-18	6/22/2015	ND<50	198
	12/9/2015	ND<50	198
	6/13/2016	ND<50	198
	12/6/2016	ND<50	198
	6/14/2017	ND<50	198
	12/13/2017	ND<50	198

	6/19/2018	ND<50	198
	12/18/2018	ND<50	198
	6/11/2019	ND<50	198
	12/9/2019	ND<50	198
	6/23/2020	ND<50	198
	12/15/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-19R	6/22/2015	ND<50	198
	12/9/2015	ND<50	198
	6/15/2016	ND<50	198
	12/6/2016	ND<50	198
	6/14/2017	ND<50	198
	12/13/2017	ND<50	198
	6/19/2018	ND<50	198
	12/18/2018	ND<50	198
	6/11/2019	ND<50	198
	12/9/2019	ND<50	198
	6/23/2020	ND<50	198
	12/15/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-22	6/22/2015	ND<50	198
	12/9/2015	ND<50	198
	6/15/2016	ND<50	198
	12/6/2016	ND<50	198
	6/14/2017	ND<50	198
	12/11/2017	ND<50	198
	6/19/2018	ND<50	198
	12/18/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-23	6/22/2015	ND<50	198
	12/8/2015	ND<50	198
	6/15/2016	ND<50	198
	12/6/2016	ND<50	198
	6/14/2017	ND<50	198
	12/11/2017	ND<50	198
	6/18/2018	ND<50	198
	12/18/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/24/2020	ND<50	198
	12/16/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-23A	6/22/2015	ND<50	198
	12/8/2015	ND<50	198
	6/15/2016	ND<50	198

	12/6/2016	ND<50	198
	6/14/2017	ND<50	198
	12/11/2017	ND<50	198
	6/18/2018	ND<50	198
	12/18/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/24/2020	ND<50	198
	12/16/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-24	6/22/2015	ND<50	198
	12/8/2015	ND<50	198
	6/13/2016	ND<50	198
	12/7/2016	ND<50	198
	6/14/2017	ND<50	198
	12/13/2017	ND<50	198
	6/19/2018	ND<50	198
	12/19/2018	ND<50	198
	6/11/2019	ND<50	198
	12/9/2019	ND<50	198
	6/24/2020	ND<50	198
	12/15/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-6	6/22/2015	ND<50	198
	12/8/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/12/2017	ND<50	198
	12/13/2017	ND<50	198
	6/21/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/10/2019	ND<50	198
	6/24/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-9	6/22/2015	ND<50	198
	12/8/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/15/2017	ND<50	198
	12/13/2017	ND<50	198
	6/20/2018	ND<50	198
	12/18/2018	ND<50	198
	6/12/2019	ND<50	198
	12/12/2019	ND<50	198
	6/24/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWA-1A	6/23/2015	ND<50	198
	12/8/2015	ND<50	198
	6/14/2016	ND<50	198
	12/7/2016	ND<50	198
	6/12/2017	ND<50	198
	12/13/2017	ND<50	198
	6/19/2018	ND<50	198
	12/18/2018	ND<50	198
	6/10/2019	ND<50	198
	12/9/2019	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-14A	6/23/2015	ND<50	198
	12/9/2015	ND<50	198
	6/15/2016	ND<50	198
	12/8/2016	ND<50	198
	6/13/2017	ND<50	198
	12/12/2017	ND<50	198
	6/20/2018	ND<50	198
	12/19/2018	ND<50	198
	6/11/2019	ND<50	198
	12/10/2019	ND<50	198
	6/24/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-14R	6/23/2015	ND<50	198
	12/10/2015	ND<50	198
	6/15/2016	ND<50	198
	12/8/2016	ND<50	198
	6/13/2017	ND<50	198
	12/12/2017	ND<50	198
	6/20/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/10/2019	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-15	6/23/2015	ND<50	198
	12/9/2015	ND<50	198
	6/15/2016	ND<50	198
	12/8/2016	ND<50	198
	6/14/2017	ND<50	198
	12/13/2017	ND<50	198
	6/19/2018	ND<50	198
	12/19/2018	ND<50	198
	6/11/2019	ND<50	198
	12/10/2019	ND<50	198
	6/25/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-8	6/23/2015	ND<50	198
	12/10/2015	ND<50	198
	6/15/2016	ND<50	198
	12/8/2016	ND<50	198
	12/12/2017	ND<50	198
	6/20/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/23/2020	ND<50	198
	12/16/2020	ND<50	198
Rank Sum = 2178			
Rank Mean = 198			

GWC-8R	6/23/2015	ND<50	198
	12/10/2015	ND<50	198
	6/15/2016	ND<50	198
	12/8/2016	ND<50	198
	6/13/2017	ND<50	198
	12/12/2017	ND<50	198
	6/20/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/23/2020	ND<50	198
	12/15/2020	ND<50	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-16A	6/24/2015	ND<50	198
	12/9/2015	1300	396
	6/16/2016	ND<50	198
	12/7/2016	ND<50	198
	6/14/2017	1500	397
	12/13/2017	ND<50	198
	6/21/2018	ND<50	198
	12/19/2018	ND<50	198
	6/13/2019	ND<50	198
	12/11/2019	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198
Rank Sum = 2773			
Rank Mean = 231.083			

GWC-14	6/24/2015	ND<50	198
	12/9/2015	ND<50	198
	6/15/2016	ND<50	198
	6/13/2017	ND<50	198
	6/20/2018	ND<50	198
	6/11/2019	ND<50	198
	12/10/2019	ND<50	198
	6/24/2020	ND<50	198
	12/17/2020	ND<50	198
Rank Sum = 1782			

Rank Mean = 198

GWC-2	6/24/2015	ND<50	198
	12/9/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/15/2017	ND<50	198
	12/13/2017	ND<50	198
	6/20/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/10/2019	ND<50	198
	6/22/2020	ND<50	198
	12/16/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-3	6/24/2015	ND<50	198
	12/9/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/15/2017	ND<50	198
	6/21/2018	ND<50	198
	12/17/2018	ND<50	198
	6/11/2019	ND<50	198
	12/10/2019	ND<50	198
	6/24/2020	ND<50	198
	12/16/2020	ND<50	198

Rank Sum = 2178
Rank Mean = 198

GWC-3A	6/24/2015	ND<50	198
	12/9/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/15/2017	ND<50	198
	12/12/2017	ND<50	198
	6/20/2018	ND<50	198
	12/17/2018	ND<50	198
	6/11/2019	ND<50	198
	12/10/2019	ND<50	198
	6/24/2020	ND<50	198
	12/16/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-4	6/24/2015	ND<50	198
	12/9/2015	ND<50	198
	6/16/2016	ND<50	198
	12/7/2016	ND<50	198
	6/20/2018	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 1386
Rank Mean = 198

GWC-4A	6/24/2015	ND<50	198

	12/9/2015	ND<50	198
	6/16/2016	ND<50	198
	12/7/2016	ND<50	198
	6/13/2017	ND<50	198
	12/12/2017	ND<50	198
	6/20/2018	ND<50	198
	12/17/2018	ND<50	198
	6/11/2019	ND<50	198
	12/11/2019	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-5	6/24/2015	ND<50	198
	12/7/2015	ND<50	198
	6/14/2016	ND<50	198
	12/8/2016	ND<50	198
	6/12/2017	ND<50	198
	12/12/2017	ND<50	198
	6/21/2018	ND<50	198
	12/18/2018	ND<50	198
	6/12/2019	ND<50	198
	12/10/2019	ND<50	198
	6/23/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-7	6/24/2015	ND<50	198
	12/7/2015	ND<50	198
	6/15/2016	ND<50	198
	12/8/2016	ND<50	198
	6/12/2017	ND<50	198
	12/12/2017	ND<50	198
	6/19/2018	ND<50	198
	12/18/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/24/2020	ND<50	198
	12/17/2020	ND<50	198

Rank Sum = 2376
Rank Mean = 198

GWC-8A	6/24/2015	ND<50	198
	12/10/2015	ND<50	198
	6/15/2016	ND<50	198
	12/8/2016	ND<50	198
	6/13/2017	ND<50	198
	12/12/2017	ND<50	198
	6/20/2018	ND<50	198
	12/19/2018	ND<50	198
	6/12/2019	ND<50	198
	12/11/2019	ND<50	198
	6/23/2020	ND<50	198
	12/15/2020	ND<50	198

Rank Sum = 2376

Rank Mean = 198

Calculation Results:

Kruskal-Wallis H Statistic = 0.967337
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.3287
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
0.967337 < 46.1942 indicating no significant group difference at 5% significance level
64.3287 > 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 198

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	94.3789
GWC-10	198	0	94.3789
GWC-10A	198	0	94.3789
GWC-11	198	0	94.3789
GWC-12	198	0	94.3789
GWC-12A	198	0	94.3789
GWC-13	198	0	94.3789
GWC-17	198	0	97.1968
GWC-18	198	0	94.3789
GWC-19R	198	0	94.3789
GWC-22	198	0	94.3789
GWC-23	198	0	94.3789
GWC-23A	198	0	94.3789
GWC-24	198	0	94.3789
GWC-6	198	0	94.3789
GWC-9	198	0	94.3789
GWA-1A	198	0	94.3789
GWC-14A	198	0	94.3789
GWC-14R	198	0	94.3789
GWC-15	198	0	94.3789
GWC-8	198	0	97.1968
GWC-8R	198	0	94.3789
GWC-16A	231.083	33.0833	94.3789
GWC-14	198	0	104.34
GWC-2	198	0	94.3789
GWC-3	198	0	97.1968
GWC-3A	198	0	94.3789
GWC-4	198	0	114.669
GWC-4A	198	0	94.3789
GWC-5	198	0	94.3789
GWC-7	198	0	94.3789
GWC-8A	198	0	94.3789

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 198

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	125.37
GWC-10	198	0	125.37
GWC-10A	198	0	125.37
GWC-11	198	0	125.37

GWC-12	198	0	125.37
GWC-12A	198	0	125.37
GWC-13	198	0	125.37
GWC-17	198	0	129.113
GWC-18	198	0	125.37
GWC-19R	198	0	125.37
GWC-22	198	0	125.37
GWC-23	198	0	125.37
GWC-23A	198	0	125.37
GWC-24	198	0	125.37
GWC-6	198	0	125.37
GWC-9	198	0	125.37
GWA-1A	198	0	125.37
GWC-14A	198	0	125.37
GWC-14R	198	0	125.37
GWC-15	198	0	125.37
GWC-8	198	0	129.113
GWC-8R	198	0	125.37
GWC-16A	231.083	33.0833	125.37
GWC-14	198	0	138.602
GWC-2	198	0	125.37
GWC-3	198	0	129.113
GWC-3A	198	0	125.37
GWC-4	198	0	152.323
GWC-4A	198	0	125.37
GWC-5	198	0	125.37
GWC-7	198	0	125.37
GWC-8A	198	0	125.37

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	6/23/2015	ND<1	186
	12/8/2015	ND<1	186
	6/14/2016	ND<1	186
	12/7/2016	ND<1	186
	6/13/2017	ND<1	186
	12/11/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/10/2019	ND<1	186
	12/9/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			
GWA-2	6/24/2015	ND<1	186
	12/7/2015	ND<1	186
	6/13/2016	ND<1	186
	12/8/2016	ND<1	186
	6/15/2017	ND<1	186
	12/11/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/11/2019	ND<1	186
	6/22/2020	ND<1	186
	12/17/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

Background Rank Sum = 4464
Background Rank Mean = 186

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	186
	12/7/2015	ND<1	186
	6/13/2016	ND<1	186
	12/8/2016	ND<1	186
	6/14/2017	ND<1	186
	12/11/2017	ND<1	186
	6/18/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/22/2020	ND<1	186

	12/16/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			
GWC-10	6/22/2015	ND<1	186
	12/7/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/15/2017	ND<1	186
	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/10/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			
GWC-10A	6/22/2015	ND<1	186
	12/7/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/15/2017	ND<1	186
	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/10/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			
GWC-11	6/22/2015	ND<1	186
	12/7/2015	ND<1	186
	6/14/2016	ND<1	186
	12/7/2016	ND<1	186
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			
GWC-12	6/22/2015	ND<1	186
	12/7/2015	ND<1	186
	6/14/2016	ND<1	186
	12/7/2016	ND<1	186
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186

	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-12A	6/22/2015	ND<1	186
	12/7/2015	ND<1	186
	6/14/2016	ND<1	186
	12/7/2016	ND<1	186
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-13	6/22/2015	ND<1	186
	12/7/2015	ND<1	186
	6/15/2016	ND<1	186
	12/7/2016	ND<1	186
	6/14/2017	ND<1	186
	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-17	6/22/2015	ND<1	186
	12/8/2015	ND<1	186
	6/13/2016	ND<1	186
	6/14/2017	ND<1	186
	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/10/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2046			
Rank Mean = 186			

GWC-18	6/22/2015	ND<1	186
	12/9/2015	ND<1	186
	6/13/2016	ND<1	186
	12/6/2016	ND<1	186
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186

	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-19R	6/22/2015	ND<1	186
	12/9/2015	ND<1	186
	6/15/2016	ND<1	186
	12/6/2016	ND<1	186
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-22	6/22/2015	ND<1	186
	12/9/2015	ND<1	186
	6/15/2016	ND<1	186
	12/6/2016	ND<1	186
	6/14/2017	ND<1	186
	12/11/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-23	6/22/2015	ND<1	186
	12/8/2015	ND<1	186
	6/15/2016	ND<1	186
	12/6/2016	ND<1	186
	6/14/2017	ND<1	186
	12/11/2017	ND<1	186
	6/18/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-23A	6/22/2015	ND<1	186
	12/8/2015	ND<1	186
	6/15/2016	ND<1	186

	12/6/2016	ND<1	186
	6/14/2017	ND<1	186
	12/11/2017	ND<1	186
	6/18/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-24	6/22/2015	ND<1	186
	12/8/2015	ND<1	186
	6/13/2016	ND<1	186
	12/7/2016	ND<1	186
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-6	6/22/2015	ND<1	186
	12/8/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/12/2017	ND<1	186
	12/13/2017	ND<1	186
	6/21/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/10/2019	ND<1	186
	6/24/2020	ND<1	186
	12/17/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-9	6/22/2015	ND<1	186
	12/8/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/15/2017	ND<1	186
	12/13/2017	ND<1	186
	6/20/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/17/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWA-1A	6/23/2015	ND<1	186
	12/8/2015	ND<1	186
	6/14/2016	ND<1	186
	12/7/2016	ND<1	186
	6/12/2017	ND<1	186
	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/10/2019	ND<1	186
	12/9/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-14A	6/23/2015	2.5	378
	12/9/2015	2.3	374
	6/15/2016	2.5	379
	12/8/2016	2.3	375
	6/13/2017	2.8	385
	12/12/2017	3	390
	6/20/2018	2.8	386
	12/19/2018	2.5	380
	6/11/2019	2.1	372
	12/10/2019	2.6	382
	6/24/2020	2.5	381
	12/15/2020	2.9	389
Rank Sum = 4571			
Rank Mean = 380.917			

GWC-14R	6/23/2015	ND<1	186
	12/10/2015	ND<1	186
	6/15/2016	ND<1	186
	12/8/2016	ND<1	186
	6/13/2017	ND<1	186
	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/10/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
Rank Sum = 2232			
Rank Mean = 186			

GWC-15	6/23/2015	ND<1	186
	12/9/2015	ND<1	186
	6/15/2016	ND<1	186
	12/8/2016	3.2	393
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/11/2019	3.1	391
	12/10/2019	ND<1	186
	6/25/2020	3.6	396
	12/17/2020	3.1	392

Rank Sum = 3060
Rank Mean = 255

GWC-8	6/23/2015	ND<1	186
	12/10/2015	ND<1	186
	6/15/2016	ND<1	186
	12/8/2016	ND<1	186
	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/16/2020	ND<1	186

Rank Sum = 2046
Rank Mean = 186

GWC-8R	6/23/2015	ND<1	186
	12/10/2015	ND<1	186
	6/15/2016	ND<1	186
	12/8/2016	ND<1	186
	6/13/2017	ND<1	186
	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186

Rank Sum = 2232
Rank Mean = 186

GWC-16A	6/24/2015	ND<1	186
	12/9/2015	2.8	387
	6/16/2016	ND<1	186
	12/7/2016	ND<1	186
	6/14/2017	ND<1	186
	12/13/2017	ND<1	186
	6/21/2018	ND<1	186
	12/19/2018	ND<1	186
	6/13/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186

Rank Sum = 2433
Rank Mean = 202.75

GWC-14	6/24/2015	ND<1	186
	12/9/2015	ND<1	186
	6/15/2016	ND<1	186
	6/13/2017	ND<1	186
	6/20/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/24/2020	ND<1	186
	12/17/2020	ND<1	186

Rank Sum = 1674

Rank Mean = 186

GWC-2	6/24/2015	ND<1	186
	12/9/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/15/2017	ND<1	186
	12/13/2017	ND<1	186
	6/20/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/10/2019	ND<1	186
	6/22/2020	ND<1	186
	12/16/2020	ND<1	186

Rank Sum = 2232
Rank Mean = 186

GWC-3	6/24/2015	ND<1	186
	12/9/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/15/2017	ND<1	186
	6/21/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186

Rank Sum = 2046
Rank Mean = 186

GWC-3A	6/24/2015	ND<1	186
	12/9/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/15/2017	ND<1	186
	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186

Rank Sum = 2232
Rank Mean = 186

GWC-4	6/24/2015	ND<1	186
	12/9/2015	ND<1	186
	6/16/2016	ND<1	186
	12/7/2016	ND<1	186
	6/20/2018	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186

Rank Sum = 1302
Rank Mean = 186

GWC-4A	6/24/2015	ND<1	186

	12/9/2015	ND<1	186
	6/16/2016	ND<1	186
	12/7/2016	ND<1	186
	6/13/2017	ND<1	186
	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186

Rank Sum = 2232
Rank Mean = 186

GWC-5	6/24/2015	ND<1	186
	12/7/2015	ND<1	186
	6/14/2016	ND<1	186
	12/8/2016	ND<1	186
	6/12/2017	ND<1	186
	12/12/2017	ND<1	186
	6/21/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/10/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186

Rank Sum = 2232
Rank Mean = 186

GWC-7	6/24/2015	ND<1	186
	12/7/2015	ND<1	186
	6/15/2016	ND<1	186
	12/8/2016	ND<1	186
	6/12/2017	ND<1	186
	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/24/2020	ND<1	186
	12/17/2020	ND<1	186

Rank Sum = 2232
Rank Mean = 186

GWC-8A	6/24/2015	ND<1	186
	12/10/2015	2.7	383
	6/15/2016	2.2	373
	12/8/2016	3.2	394
	6/13/2017	2.3	376
	12/12/2017	3.8	397
	6/20/2018	2.7	384
	12/19/2018	3.3	395
	6/12/2019	ND<1	186
	12/11/2019	2.8	388
	6/23/2020	ND<1	186
	12/15/2020	2.3	377

Rank Sum = 4025

Rank Mean = 335.417

Calculation Results:

Kruskal-Wallis H Statistic = 54.4703
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 296.215
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
54.4703 > 46.1942 indicating a significant group difference at 5% significance level
296.215 > 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 186

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	186	0	94.3789
GWC-10	186	0	94.3789
GWC-10A	186	0	94.3789
GWC-11	186	0	94.3789
GWC-12	186	0	94.3789
GWC-12A	186	0	94.3789
GWC-13	186	0	94.3789
GWC-17	186	0	97.1968
GWC-18	186	0	94.3789
GWC-19R	186	0	94.3789
GWC-22	186	0	94.3789
GWC-23	186	0	94.3789
GWC-23A	186	0	94.3789
GWC-24	186	0	94.3789
GWC-6	186	0	94.3789
GWC-9	186	0	94.3789
GWA-1A	186	0	94.3789
GWC-14A	**380.917**	**194.917**	**94.3789**
GWC-14R	186	0	94.3789
GWC-15	255	69	94.3789
GWC-8	186	0	97.1968
GWC-8R	186	0	94.3789
GWC-16A	202.75	16.75	94.3789
GWC-14	186	0	104.34
GWC-2	186	0	94.3789
GWC-3	186	0	97.1968
GWC-3A	186	0	94.3789
GWC-4	186	0	114.669
GWC-4A	186	0	94.3789
GWC-5	186	0	94.3789
GWC-7	186	0	94.3789
GWC-8A	**335.417**	**149.417**	**94.3789**

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 186

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	186	0	125.37
GWC-10	186	0	125.37
GWC-10A	186	0	125.37
GWC-11	186	0	125.37

GWC-12	186	0	125.37
GWC-12A	186	0	125.37
GWC-13	186	0	125.37
GWC-17	186	0	129.113
GWC-18	186	0	125.37
GWC-19R	186	0	125.37
GWC-22	186	0	125.37
GWC-23	186	0	125.37
GWC-23A	186	0	125.37
GWC-24	186	0	125.37
GWC-6	186	0	125.37
GWC-9	186	0	125.37
GWA-1A	186	0	125.37
GWC-14A	**380.917**	**194.917**	**125.37**
GWC-14R	186	0	125.37
GWC-15	255	69	125.37
GWC-8	186	0	129.113
GWC-8R	186	0	125.37
GWC-16A	202.75	16.75	125.37
GWC-14	186	0	138.602
GWC-2	186	0	125.37
GWC-3	186	0	129.113
GWC-3A	186	0	125.37
GWC-4	186	0	152.323
GWC-4A	186	0	125.37
GWC-5	186	0	125.37
GWC-7	186	0	125.37
GWC-8A	**335.417**	**149.417**	**125.37**

Kruskal-Wallis Non-Parametric Test

Parameter: Chlorobenzene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/23/2015	ND<5	198
	12/8/2015	ND<5	198
	6/14/2016	ND<5	198
	12/7/2016	ND<5	198
	6/13/2017	ND<5	198
	12/11/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/10/2019	ND<5	198
	12/9/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWA-2	6/24/2015	ND<5	198
	12/7/2015	ND<5	198
	6/13/2016	ND<5	198
	12/8/2016	ND<5	198
	6/15/2017	ND<5	198
	12/11/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/11/2019	ND<5	198
	6/22/2020	ND<5	198
	12/17/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			

Background Rank Sum = 4752
Background Rank Mean = 198

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<5	198
	12/7/2015	ND<5	198
	6/13/2016	ND<5	198
	12/8/2016	ND<5	198
	6/14/2017	ND<5	198
	12/11/2017	ND<5	198
	6/18/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/22/2020	ND<5	198

	12/16/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-10	6/22/2015	ND<5	198
	12/7/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/15/2017	ND<5	198
	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/10/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-10A	6/22/2015	ND<5	198
	12/7/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/15/2017	ND<5	198
	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/10/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-11	6/22/2015	ND<5	198
	12/7/2015	ND<5	198
	6/14/2016	ND<5	198
	12/7/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-12	6/22/2015	ND<5	198
	12/7/2015	ND<5	198
	6/14/2016	ND<5	198
	12/7/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198

	6/11/2019	ND<5	198
	12/9/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-12A	6/22/2015	ND<5	198
	12/7/2015	ND<5	198
	6/14/2016	ND<5	198
	12/7/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/11/2019	ND<5	198
	12/9/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-13	6/22/2015	ND<5	198
	12/7/2015	ND<5	198
	6/15/2016	ND<5	198
	12/7/2016	ND<5	198
	6/14/2017	ND<5	198
	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-17	6/22/2015	ND<5	198
	12/8/2015	ND<5	198
	6/13/2016	ND<5	198
	6/14/2017	ND<5	198
	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/10/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2178			
Rank Mean = 198			
GWC-18	6/22/2015	ND<5	198
	12/9/2015	ND<5	198
	6/13/2016	ND<5	198
	12/6/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198

	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/11/2019	ND<5	198
	12/9/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-19R	6/22/2015	ND<5	198
	12/9/2015	ND<5	198
	6/15/2016	ND<5	198
	12/6/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/11/2019	ND<5	198
	12/9/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-22	6/22/2015	ND<5	198
	12/9/2015	ND<5	198
	6/15/2016	ND<5	198
	12/6/2016	ND<5	198
	6/14/2017	ND<5	198
	12/11/2017	ND<5	198
	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-23	6/22/2015	ND<5	198
	12/8/2015	ND<5	198
	6/15/2016	ND<5	198
	12/6/2016	ND<5	198
	6/14/2017	ND<5	198
	12/11/2017	ND<5	198
	6/18/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/24/2020	ND<5	198
	12/16/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-23A	6/22/2015	ND<5	198
	12/8/2015	ND<5	198
	6/15/2016	ND<5	198

	12/6/2016	ND<5	198
	6/14/2017	ND<5	198
	12/11/2017	ND<5	198
	6/18/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/24/2020	ND<5	198
	12/16/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-24	6/22/2015	ND<5	198
	12/8/2015	ND<5	198
	6/13/2016	ND<5	198
	12/7/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/11/2019	ND<5	198
	12/9/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-6	6/22/2015	ND<5	198
	12/8/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/12/2017	ND<5	198
	12/13/2017	ND<5	198
	6/21/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/10/2019	ND<5	198
	6/24/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-9	6/22/2015	ND<5	198
	12/8/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/15/2017	ND<5	198
	12/13/2017	ND<5	198
	6/20/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWA-1A	6/23/2015	ND<5	198
	12/8/2015	ND<5	198
	6/14/2016	ND<5	198
	12/7/2016	ND<5	198
	6/12/2017	ND<5	198
	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/10/2019	ND<5	198
	12/9/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-14A	6/23/2015	ND<5	198
	12/9/2015	ND<5	198
	6/15/2016	ND<5	198
	12/8/2016	ND<5	198
	6/13/2017	ND<5	198
	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/24/2020	12	396
	12/15/2020	16	397
Rank Sum = 2773			
Rank Mean = 231.083			

GWC-14R	6/23/2015	ND<5	198
	12/10/2015	ND<5	198
	6/15/2016	ND<5	198
	12/8/2016	ND<5	198
	6/13/2017	ND<5	198
	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/10/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-15	6/23/2015	ND<5	198
	12/9/2015	ND<5	198
	6/15/2016	ND<5	198
	12/8/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/25/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-8	6/23/2015	ND<5	198
	12/10/2015	ND<5	198
	6/15/2016	ND<5	198
	12/8/2016	ND<5	198
	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/16/2020	ND<5	198
Rank Sum = 2178			
Rank Mean = 198			

GWC-8R	6/23/2015	ND<5	198
	12/10/2015	ND<5	198
	6/15/2016	ND<5	198
	12/8/2016	ND<5	198
	6/13/2017	ND<5	198
	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-16A	6/24/2015	ND<5	198
	12/9/2015	ND<5	198
	6/16/2016	ND<5	198
	12/7/2016	ND<5	198
	6/14/2017	ND<5	198
	12/13/2017	ND<5	198
	6/21/2018	ND<5	198
	12/19/2018	ND<5	198
	6/13/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-14	6/24/2015	ND<5	198
	12/9/2015	ND<5	198
	6/15/2016	ND<5	198
	6/13/2017	ND<5	198
	6/20/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/24/2020	ND<5	198
	12/17/2020	ND<5	198
Rank Sum = 1782			

Rank Mean = 198

GWC-2	6/24/2015	ND<5	198
	12/9/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/15/2017	ND<5	198
	12/13/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/10/2019	ND<5	198
	6/22/2020	ND<5	198
	12/16/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-3	6/24/2015	ND<5	198
	12/9/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/15/2017	ND<5	198
	6/21/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/24/2020	ND<5	198
	12/16/2020	ND<5	198

Rank Sum = 2178
Rank Mean = 198

GWC-3A	6/24/2015	ND<5	198
	12/9/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/15/2017	ND<5	198
	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/24/2020	ND<5	198
	12/16/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-4	6/24/2015	ND<5	198
	12/9/2015	ND<5	198
	6/16/2016	ND<5	198
	12/7/2016	ND<5	198
	6/20/2018	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 1386
Rank Mean = 198

GWC-4A	6/24/2015	ND<5	198

	12/9/2015	ND<5	198
	6/16/2016	ND<5	198
	12/7/2016	ND<5	198
	6/13/2017	ND<5	198
	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-5	6/24/2015	ND<5	198
	12/7/2015	ND<5	198
	6/14/2016	ND<5	198
	12/8/2016	ND<5	198
	6/12/2017	ND<5	198
	12/12/2017	ND<5	198
	6/21/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/10/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-7	6/24/2015	ND<5	198
	12/7/2015	ND<5	198
	6/15/2016	ND<5	198
	12/8/2016	ND<5	198
	6/12/2017	ND<5	198
	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/24/2020	ND<5	198
	12/17/2020	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-8A	6/24/2015	ND<5	198
	12/10/2015	ND<5	198
	6/15/2016	ND<5	198
	12/8/2016	ND<5	198
	6/13/2017	ND<5	198
	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198

Rank Sum = 2376

Rank Mean = 198

Calculation Results:

Kruskal-Wallis H Statistic = 0.967337

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.3287

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

0.967337 < 46.1942 indicating no significant group difference at 5% significance level

64.3287 > 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 198

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	94.3789
GWC-10	198	0	94.3789
GWC-10A	198	0	94.3789
GWC-11	198	0	94.3789
GWC-12	198	0	94.3789
GWC-12A	198	0	94.3789
GWC-13	198	0	94.3789
GWC-17	198	0	97.1968
GWC-18	198	0	94.3789
GWC-19R	198	0	94.3789
GWC-22	198	0	94.3789
GWC-23	198	0	94.3789
GWC-23A	198	0	94.3789
GWC-24	198	0	94.3789
GWC-6	198	0	94.3789
GWC-9	198	0	94.3789
GWA-1A	198	0	94.3789
GWC-14A	231.083	33.0833	94.3789
GWC-14R	198	0	94.3789
GWC-15	198	0	94.3789
GWC-8	198	0	97.1968
GWC-8R	198	0	94.3789
GWC-16A	198	0	94.3789
GWC-14	198	0	104.34
GWC-2	198	0	94.3789
GWC-3	198	0	97.1968
GWC-3A	198	0	94.3789
GWC-4	198	0	114.669
GWC-4A	198	0	94.3789
GWC-5	198	0	94.3789
GWC-7	198	0	94.3789
GWC-8A	198	0	94.3789

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 198

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	125.37
GWC-10	198	0	125.37
GWC-10A	198	0	125.37
GWC-11	198	0	125.37

GWC-12	198	0	125.37
GWC-12A	198	0	125.37
GWC-13	198	0	125.37
GWC-17	198	0	129.113
GWC-18	198	0	125.37
GWC-19R	198	0	125.37
GWC-22	198	0	125.37
GWC-23	198	0	125.37
GWC-23A	198	0	125.37
GWC-24	198	0	125.37
GWC-6	198	0	125.37
GWC-9	198	0	125.37
GWA-1A	198	0	125.37
GWC-14A	231.083	33.0833	125.37
GWC-14R	198	0	125.37
GWC-15	198	0	125.37
GWC-8	198	0	129.113
GWC-8R	198	0	125.37
GWC-16A	198	0	125.37
GWC-14	198	0	138.602
GWC-2	198	0	125.37
GWC-3	198	0	129.113
GWC-3A	198	0	125.37
GWC-4	198	0	152.323
GWC-4A	198	0	125.37
GWC-5	198	0	125.37
GWC-7	198	0	125.37
GWC-8A	198	0	125.37

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	6/23/2015	ND<1	191
	12/8/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/13/2017	ND<1	191
	12/11/2017	ND<1	191
	6/19/2018	ND<1	191
	12/17/2018	ND<1	191
	6/10/2019	ND<1	191
	12/9/2019	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWA-2	6/24/2015	ND<1	191
	12/7/2015	ND<1	191
	6/13/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/11/2017	ND<1	191
	6/19/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191
	12/11/2019	ND<1	191
	6/22/2020	ND<1	191
	12/17/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			

Background Rank Sum = 4584
Background Rank Mean = 191

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/13/2016	ND<1	191
	12/8/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/18/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/22/2020	ND<1	191

	12/16/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-10	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/17/2018	ND<1	191
	6/10/2019	ND<1	191
	12/12/2019	ND<1	191
	6/24/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-10A	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/17/2018	ND<1	191
	6/10/2019	ND<1	191
	12/12/2019	ND<1	191
	6/24/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-11	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/12/2019	ND<1	191
	6/24/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-12	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191

	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/24/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-12A	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/24/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-13	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/15/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-17	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/13/2016	ND<1	191
	6/14/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/23/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2101			
Rank Mean = 191			
GWC-18	6/22/2015	ND<1	191
	12/9/2015	ND<1	191
	6/13/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191

	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/23/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-19R	6/22/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/23/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-22	6/22/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-23	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/15/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/18/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/24/2020	ND<1	191
	12/16/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			
GWC-23A	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/15/2016	ND<1	191

	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/18/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/24/2020	ND<1	191
	12/16/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			

GWC-24	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/13/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/24/2020	ND<1	191
	12/15/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			

GWC-6	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/12/2017	ND<1	191
	12/13/2017	ND<1	191
	6/21/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/24/2020	ND<1	191
	12/17/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			

GWC-9	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/13/2017	ND<1	191
	6/20/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/12/2019	ND<1	191
	6/24/2020	ND<1	191
	12/17/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			

GWA-1A	6/23/2015	ND<1	191
	12/8/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/12/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/10/2019	ND<1	191
	12/9/2019	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			

GWC-14A	6/23/2015	8.2	395
	12/9/2015	6.7	393
	6/15/2016	12	397
	12/8/2016	6.4	392
	6/13/2017	5.8	390
	12/12/2017	7.7	394
	6/20/2018	8.5	396
	12/19/2018	5.4	389
	6/11/2019	4.4	388
	12/10/2019	3.6	386
	6/24/2020	3.3	384
	12/15/2020	4.2	387
Rank Sum = 4691			
Rank Mean = 390.917			

GWC-14R	6/23/2015	ND<1	191
	12/10/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	6/13/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191
Rank Sum = 2292			
Rank Mean = 191			

GWC-15	6/23/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	2.8	383
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/25/2020	ND<1	191
	12/17/2020	ND<1	191

Rank Sum = 2484
Rank Mean = 207

GWC-8	6/23/2015	ND<1	191
	12/10/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191
	12/16/2020	ND<1	191

Rank Sum = 2101
Rank Mean = 191

GWC-8R	6/23/2015	ND<1	191
	12/10/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	2.2	382
	6/13/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191
	12/15/2020	ND<1	191

Rank Sum = 2483
Rank Mean = 206.917

GWC-16A	6/24/2015	ND<1	191
	12/9/2015	6.3	391
	6/16/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	3.3	385
	12/13/2017	ND<1	191
	6/21/2018	ND<1	191
	12/19/2018	ND<1	191
	6/13/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191

Rank Sum = 2686
Rank Mean = 223.833

GWC-14	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	6/13/2017	ND<1	191
	6/20/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/24/2020	ND<1	191
	12/17/2020	ND<1	191

Rank Sum = 1719

Rank Mean = 191

GWC-2	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/13/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/22/2020	ND<1	191
	12/16/2020	ND<1	191

Rank Sum = 2292
Rank Mean = 191

GWC-3	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	6/21/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/24/2020	ND<1	191
	12/16/2020	ND<1	191

Rank Sum = 2101
Rank Mean = 191

GWC-3A	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/24/2020	ND<1	191
	12/16/2020	ND<1	191

Rank Sum = 2292
Rank Mean = 191

GWC-4	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/16/2016	ND<1	191
	12/7/2016	ND<1	191
	6/20/2018	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191

Rank Sum = 1337
Rank Mean = 191

GWC-4A	6/24/2015	ND<1	191

	12/9/2015	ND<1	191
	6/16/2016	ND<1	191
	12/7/2016	ND<1	191
	6/13/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191

Rank Sum = 2292
Rank Mean = 191

GWC-5	6/24/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/12/2017	ND<1	191
	12/12/2017	ND<1	191
	6/21/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/23/2020	ND<1	191
	12/17/2020	ND<1	191

Rank Sum = 2292
Rank Mean = 191

GWC-7	6/24/2015	ND<1	191
	12/7/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	6/12/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/24/2020	ND<1	191
	12/17/2020	ND<1	191

Rank Sum = 2292
Rank Mean = 191

GWC-8A	6/24/2015	ND<1	191
	12/10/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	6/13/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191
	12/15/2020	ND<1	191

Rank Sum = 2292

Rank Mean = 191

Calculation Results:

Kruskal-Wallis H Statistic = 35.941
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 309.569
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
35.941 < 46.1942 indicating no significant group difference at 5% significance level
309.569 > 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 191

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	191	0	94.3789
GWC-10	191	0	94.3789
GWC-10A	191	0	94.3789
GWC-11	191	0	94.3789
GWC-12	191	0	94.3789
GWC-12A	191	0	94.3789
GWC-13	191	0	94.3789
GWC-17	191	0	97.1968
GWC-18	191	0	94.3789
GWC-19R	191	0	94.3789
GWC-22	191	0	94.3789
GWC-23	191	0	94.3789
GWC-23A	191	0	94.3789
GWC-24	191	0	94.3789
GWC-6	191	0	94.3789
GWC-9	191	0	94.3789
GWA-1A	191	0	94.3789
GWC-14A	**390.917**	**199.917**	**94.3789**
GWC-14R	191	0	94.3789
GWC-15	207	16	94.3789
GWC-8	191	0	97.1968
GWC-8R	206.917	15.9167	94.3789
GWC-16A	223.833	32.8333	94.3789
GWC-14	191	0	104.34
GWC-2	191	0	94.3789
GWC-3	191	0	97.1968
GWC-3A	191	0	94.3789
GWC-4	191	0	114.669
GWC-4A	191	0	94.3789
GWC-5	191	0	94.3789
GWC-7	191	0	94.3789
GWC-8A	191	0	94.3789

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 191

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	191	0	125.37
GWC-10	191	0	125.37
GWC-10A	191	0	125.37
GWC-11	191	0	125.37

GWC-12	191	0	125.37
GWC-12A	191	0	125.37
GWC-13	191	0	125.37
GWC-17	191	0	129.113
GWC-18	191	0	125.37
GWC-19R	191	0	125.37
GWC-22	191	0	125.37
GWC-23	191	0	125.37
GWC-23A	191	0	125.37
GWC-24	191	0	125.37
GWC-6	191	0	125.37
GWC-9	191	0	125.37
GWA-1A	191	0	125.37
GWC-14A	**390.917**	**199.917**	**125.37**
GWC-14R	191	0	125.37
GWC-15	207	16	125.37
GWC-8	191	0	129.113
GWC-8R	206.917	15.9167	125.37
GWC-16A	223.833	32.8333	125.37
GWC-14	191	0	138.602
GWC-2	191	0	125.37
GWC-3	191	0	129.113
GWC-3A	191	0	125.37
GWC-4	191	0	152.323
GWC-4A	191	0	125.37
GWC-5	191	0	125.37
GWC-7	191	0	125.37
GWC-8A	191	0	125.37

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	6/23/2015	ND<1	141.5
	12/8/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/13/2017	ND<1	141.5
	12/11/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/10/2019	ND<1	141.5
	12/9/2019	ND<1	141.5
	6/23/2020	ND<1	141.5
	12/17/2020	ND<1	141.5
Rank Sum = 1698			
Rank Mean = 141.5			
GWA-2	6/24/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/13/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/15/2017	ND<1	141.5
	12/11/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/11/2019	ND<1	141.5
	12/11/2019	ND<1	141.5
	6/22/2020	ND<1	141.5
	12/17/2020	ND<1	141.5
Rank Sum = 1698			
Rank Mean = 141.5			

Background Rank Sum = 3396
Background Rank Mean = 141.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/13/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/11/2017	ND<1	141.5
	6/18/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/11/2019	ND<1	141.5
	12/10/2019	ND<1	141.5
	6/22/2020	ND<1	141.5

	12/16/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-10	6/22/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/15/2017	ND<1	141.5
	12/12/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/10/2019	ND<1	141.5
	12/12/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/15/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-10A	6/22/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/15/2017	ND<1	141.5
	12/12/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/10/2019	ND<1	141.5
	12/12/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/15/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-11	6/22/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/19/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/12/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/15/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-12	6/22/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/19/2018	ND<1	141.5

	6/11/2019	ND<1	141.5
	12/9/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/15/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-12A	6/22/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/19/2018	ND<1	141.5
	6/11/2019	ND<1	141.5
	12/9/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/15/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-13	6/22/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/15/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/12/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/19/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/11/2019	ND<1	141.5
	6/23/2020	ND<1	141.5
	12/15/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-17	6/22/2015	10	322
	12/8/2015	45	383
	6/13/2016	41	381
	6/14/2017	8.4	319
	12/12/2017	17	336
	6/19/2018	4.7	306
	12/19/2018	8.7	320
	6/12/2019	ND<1	141.5
	12/10/2019	15	332
	6/23/2020	ND<1	141.5
	12/15/2020	22	352

Rank Sum = 3334
Rank Mean = 303.091

GWC-18	6/22/2015	15	333
	12/9/2015	14	329
	6/13/2016	3.6	301
	12/6/2016	16	334
	6/14/2017	16	335
	12/13/2017	14	330

	6/19/2018	7.7	316
	12/18/2018	12	327
	6/11/2019	14	331
	12/9/2019	30	369
	6/23/2020	10	323
	12/15/2020	26	362

Rank Sum = 3990
Rank Mean = 332.5

GWC-19R	6/22/2015	6.8	313
	12/9/2015	4.7	307
	6/15/2016	9.3	321
	12/6/2016	13	328
	6/14/2017	2.4	288
	12/13/2017	4.7	308
	6/19/2018	5.1	309
	12/18/2018	2.9	293
	6/11/2019	7.7	317
	12/9/2019	11	325
	6/23/2020	7.2	314
	12/15/2020	7.9	318

Rank Sum = 3741
Rank Mean = 311.75

GWC-22	6/22/2015	ND<1	141.5
	12/9/2015	ND<1	141.5
	6/15/2016	ND<1	141.5
	12/6/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/11/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/18/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/11/2019	ND<1	141.5
	6/23/2020	ND<1	141.5
	12/17/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-23	6/22/2015	ND<1	141.5
	12/8/2015	ND<1	141.5
	6/15/2016	ND<1	141.5
	12/6/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/11/2017	ND<1	141.5
	6/18/2018	ND<1	141.5
	12/18/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/11/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/16/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-23A	6/22/2015	ND<1	141.5
	12/8/2015	ND<1	141.5
	6/15/2016	ND<1	141.5

	12/6/2016	ND<1	141.5
	6/14/2017	ND<1	141.5
	12/11/2017	ND<1	141.5
	6/18/2018	ND<1	141.5
	12/18/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/11/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/16/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-24	6/22/2015	ND<1	141.5
	12/8/2015	2.4	289
	6/13/2016	5.2	310
	12/7/2016	5.4	311
	6/14/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/19/2018	2.2	285
	12/19/2018	3.7	302
	6/11/2019	4.4	304
	12/9/2019	6.1	312
	6/24/2020	3	296
	12/15/2020	3.5	299

Rank Sum = 3132.5
Rank Mean = 261.042

GWC-6	6/22/2015	ND<1	141.5
	12/8/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/12/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/21/2018	ND<1	141.5
	12/19/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/10/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/17/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-9	6/22/2015	ND<1	141.5
	12/8/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/15/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/20/2018	ND<1	141.5
	12/18/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/12/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/17/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWA-1A	6/23/2015	ND<1	141.5
	12/8/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/12/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/18/2018	ND<1	141.5
	6/10/2019	ND<1	141.5
	12/9/2019	ND<1	141.5
	6/23/2020	ND<1	141.5
	12/17/2020	ND<1	141.5
Rank Sum = 1698			
Rank Mean = 141.5			
GWC-14A	6/23/2015	32	373
	12/9/2015	38	379
	6/15/2016	42	382
	12/8/2016	33	376
	6/13/2017	64	389
	12/12/2017	62	387
	6/20/2018	71	392
	12/19/2018	53	386
	6/11/2019	46	384
	12/10/2019	65	390
	6/24/2020	62	388
	12/15/2020	69	391
Rank Sum = 4617			
Rank Mean = 384.75			
GWC-14R	6/23/2015	22	353
	12/10/2015	20	346
	6/15/2016	25	360
	12/8/2016	19	341
	6/13/2017	26	363
	12/12/2017	20	347
	6/20/2018	24	357
	12/19/2018	17	337
	6/12/2019	21	348
	12/10/2019	19	342
	6/23/2020	26	364
	12/17/2020	28	367
Rank Sum = 4225			
Rank Mean = 352.083			
GWC-15	6/23/2015	ND<1	141.5
	12/9/2015	17	338
	6/15/2016	ND<1	141.5
	12/8/2016	110	395
	6/14/2017	10	324
	12/13/2017	11	326
	6/19/2018	2	283
	12/19/2018	2.9	294
	6/11/2019	97	394
	12/10/2019	51	385
	6/25/2020	110	396
	12/17/2020	110	397

Rank Sum = 3815			
Rank Mean = 317.917			
GWC-8	6/23/2015	ND<1	141.5
	12/10/2015	ND<1	141.5
	6/15/2016	ND<1	141.5
	12/8/2016	3.1	297
	12/12/2017	7.6	315
	6/20/2018	2.6	291
	12/19/2018	4.3	303
	6/12/2019	ND<1	141.5
	12/11/2019	2.8	292
	6/23/2020	ND<1	141.5
	12/16/2020	ND<1	141.5
Rank Sum = 2347			
Rank Mean = 213.364			
GWC-8R	6/23/2015	19	343
	12/10/2015	19	344
	6/15/2016	21	349
	12/8/2016	17	339
	6/13/2017	23	355
	12/12/2017	21	350
	6/20/2018	24	358
	12/19/2018	18	340
	6/12/2019	21	351
	12/11/2019	24	359
	6/23/2020	27	365
	12/15/2020	30	370
Rank Sum = 4223			
Rank Mean = 351.917			
GWC-16A	6/24/2015	4.4	305
	12/9/2015	82	393
	6/16/2016	3.4	298
	12/7/2016	3.5	300
	6/14/2017	39	380
	12/13/2017	2.9	295
	6/21/2018	ND<1	141.5
	12/19/2018	2.5	290
	6/13/2019	ND<1	141.5
	12/11/2019	2.1	284
	6/23/2020	2.2	286
	12/17/2020	2.3	287
Rank Sum = 3401			
Rank Mean = 283.417			
GWC-14	6/24/2015	ND<1	141.5
	12/9/2015	ND<1	141.5
	6/15/2016	ND<1	141.5
	6/13/2017	ND<1	141.5
	6/20/2018	ND<1	141.5
	6/11/2019	ND<1	141.5
	12/10/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/17/2020	ND<1	141.5
Rank Sum = 1273.5			

Rank Mean = 141.5

GWC-2	6/24/2015	ND<1	141.5
	12/9/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/15/2017	ND<1	141.5
	12/13/2017	ND<1	141.5
	6/20/2018	ND<1	141.5
	12/19/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/10/2019	ND<1	141.5
	6/22/2020	ND<1	141.5
	12/16/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-3	6/24/2015	ND<1	141.5
	12/9/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/15/2017	ND<1	141.5
	6/21/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/11/2019	ND<1	141.5
	12/10/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/16/2020	ND<1	141.5

Rank Sum = 1556.5
Rank Mean = 141.5

GWC-3A	6/24/2015	ND<1	141.5
	12/9/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/15/2017	ND<1	141.5
	12/12/2017	ND<1	141.5
	6/20/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/11/2019	ND<1	141.5
	12/10/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/16/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-4	6/24/2015	ND<1	141.5
	12/9/2015	ND<1	141.5
	6/16/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/20/2018	ND<1	141.5
	6/23/2020	ND<1	141.5
	12/17/2020	ND<1	141.5

Rank Sum = 990.5
Rank Mean = 141.5

GWC-4A	6/24/2015	ND<1	141.5

	12/9/2015	ND<1	141.5
	6/16/2016	ND<1	141.5
	12/7/2016	ND<1	141.5
	6/13/2017	ND<1	141.5
	12/12/2017	ND<1	141.5
	6/20/2018	ND<1	141.5
	12/17/2018	ND<1	141.5
	6/11/2019	ND<1	141.5
	12/11/2019	ND<1	141.5
	6/23/2020	ND<1	141.5
	12/17/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-5	6/24/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/14/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/12/2017	ND<1	141.5
	12/12/2017	ND<1	141.5
	6/21/2018	ND<1	141.5
	12/18/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/10/2019	ND<1	141.5
	6/23/2020	ND<1	141.5
	12/17/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-7	6/24/2015	ND<1	141.5
	12/7/2015	ND<1	141.5
	6/15/2016	ND<1	141.5
	12/8/2016	ND<1	141.5
	6/12/2017	ND<1	141.5
	12/12/2017	ND<1	141.5
	6/19/2018	ND<1	141.5
	12/18/2018	ND<1	141.5
	6/12/2019	ND<1	141.5
	12/11/2019	ND<1	141.5
	6/24/2020	ND<1	141.5
	12/17/2020	ND<1	141.5

Rank Sum = 1698
Rank Mean = 141.5

GWC-8A	6/24/2015	19	345
	12/10/2015	29	368
	6/15/2016	25	361
	12/8/2016	32	374
	6/13/2017	27	366
	12/12/2017	37	378
	6/20/2018	32	375
	12/19/2018	31	371
	6/12/2019	22	354
	12/11/2019	33	377
	6/23/2020	23	356
	12/15/2020	31	372

Rank Sum = 4397

Rank Mean = 366.417

Calculation Results:
Kruskal-Wallis H Statistic = 226.642
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 353.247
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
226.642 > 46.1942 indicating a significant group difference at 5% significance level
353.247 > 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 141.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	141.5	0	94.3789
GWC-10	141.5	0	94.3789
GWC-10A	141.5	0	94.3789
GWC-11	141.5	0	94.3789
GWC-12	141.5	0	94.3789
GWC-12A	141.5	0	94.3789
GWC-13	141.5	0	94.3789
GWC-17	**303.091**	**161.591**	**97.1968**
GWC-18	**332.5**	**191**	**94.3789**
GWC-19R	**311.75**	**170.25**	**94.3789**
GWC-22	141.5	0	94.3789
GWC-23	141.5	0	94.3789
GWC-23A	141.5	0	94.3789
GWC-24	**261.042**	**119.542**	**94.3789**
GWC-6	141.5	0	94.3789
GWC-9	141.5	0	94.3789
GWA-1A	141.5	0	94.3789
GWC-14A	**384.75**	**243.25**	**94.3789**
GWC-14R	**352.083**	**210.583**	**94.3789**
GWC-15	**317.917**	**176.417**	**94.3789**
GWC-8	213.364	71.8636	97.1968
GWC-8R	**351.917**	**210.417**	**94.3789**
GWC-16A	**283.417**	**141.917**	**94.3789**
GWC-14	141.5	0	104.34
GWC-2	141.5	0	94.3789
GWC-3	141.5	0	97.1968
GWC-3A	141.5	0	94.3789
GWC-4	141.5	0	114.669
GWC-4A	141.5	0	94.3789
GWC-5	141.5	0	94.3789
GWC-7	141.5	0	94.3789
GWC-8A	**366.417**	**224.917**	**94.3789**

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 141.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	141.5	0	125.37
GWC-10	141.5	0	125.37
GWC-10A	141.5	0	125.37
GWC-11	141.5	0	125.37

GWC-12	141.5	0	125.37
GWC-12A	141.5	0	125.37
GWC-13	141.5	0	125.37
GWC-17	**303.091**	**161.591**	**129.113**
GWC-18	**332.5**	**191**	**125.37**
GWC-19R	**311.75**	**170.25**	**125.37**
GWC-22	141.5	0	125.37
GWC-23	141.5	0	125.37
GWC-23A	141.5	0	125.37
GWC-24	261.042	119.542	125.37
GWC-6	141.5	0	125.37
GWC-9	141.5	0	125.37
GWA-1A	141.5	0	125.37
GWC-14A	**384.75**	**243.25**	**125.37**
GWC-14R	**352.083**	**210.583**	**125.37**
GWC-15	**317.917**	**176.417**	**125.37**
GWC-8	213.364	71.8636	129.113
GWC-8R	**351.917**	**210.417**	**125.37**
GWC-16A	**283.417**	**141.917**	**125.37**
GWC-14	141.5	0	138.602
GWC-2	141.5	0	125.37
GWC-3	141.5	0	129.113
GWC-3A	141.5	0	125.37
GWC-4	141.5	0	152.323
GWC-4A	141.5	0	125.37
GWC-5	141.5	0	125.37
GWC-7	141.5	0	125.37
GWC-8A	**366.417**	**224.917**	**125.37**

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	6/23/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/13/2017	ND<1	181.5
	12/11/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/10/2019	ND<1	181.5
	12/9/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5
Rank Sum = 2178			
Rank Mean = 181.5			
GWA-2	6/24/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/13/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/15/2017	ND<1	181.5
	12/11/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/22/2020	ND<1	181.5
	12/17/2020	ND<1	181.5
Rank Sum = 2178			
Rank Mean = 181.5			

Background Rank Sum = 4356
Background Rank Mean = 181.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/13/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/11/2017	ND<1	181.5
	6/18/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/22/2020	ND<1	181.5

	12/16/2020	ND<1	181.5
Rank Sum = 2178			
Rank Mean = 181.5			
GWC-10	6/22/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/15/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/10/2019	ND<1	181.5
	12/12/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/15/2020	ND<1	181.5
Rank Sum = 2178			
Rank Mean = 181.5			
GWC-10A	6/22/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/15/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/10/2019	ND<1	181.5
	12/12/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/15/2020	ND<1	181.5
Rank Sum = 2178			
Rank Mean = 181.5			
GWC-11	6/22/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/12/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/15/2020	ND<1	181.5
Rank Sum = 2178			
Rank Mean = 181.5			
GWC-12	6/22/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/19/2018	ND<1	181.5

	6/11/2019	ND<1	181.5
	12/9/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-12A	6/22/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/9/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-13	6/22/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-17	6/22/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/13/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 1996.5
Rank Mean = 181.5

GWC-18	6/22/2015	10	391
	12/9/2015	9	388
	6/13/2016	4	375
	12/6/2016	6.6	384
	6/14/2017	4.1	376
	12/13/2017	6.5	383

	6/19/2018	4.6	377
	12/18/2018	7	385
	6/11/2019	3.9	374
	12/9/2019	7.4	387
	6/23/2020	5.7	379
	12/15/2020	6.4	382

Rank Sum = 4581
Rank Mean = 381.75

GWC-19R	6/22/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/6/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/18/2018	2	363
	6/11/2019	ND<1	181.5
	12/9/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2359.5
Rank Mean = 196.625

GWC-22	6/22/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/6/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/11/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/18/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-23	6/22/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/6/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/11/2017	ND<1	181.5
	6/18/2018	ND<1	181.5
	12/18/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/16/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-23A	6/22/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/15/2016	ND<1	181.5

	12/6/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/11/2017	ND<1	181.5
	6/18/2018	ND<1	181.5
	12/18/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/16/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-24	6/22/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/13/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/14/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/9/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-6	6/22/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/12/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/21/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-9	6/22/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/15/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	12/18/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/12/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWA-1A	6/23/2015	ND<1	181.5
	12/8/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/12/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/18/2018	ND<1	181.5
	6/10/2019	ND<1	181.5
	12/9/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-14A	6/23/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/13/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-14R	6/23/2015	3.5	372
	12/10/2015	2.8	370
	6/15/2016	2.2	367
	12/8/2016	2.5	368
	6/13/2017	3.2	371
	12/12/2017	2	364
	6/20/2018	2	365
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 3484.5
Rank Mean = 290.375

GWC-15	6/23/2015	11	392
	12/9/2015	6.1	380
	6/15/2016	9	389
	12/8/2016	16	393
	6/14/2017	7.3	386
	12/13/2017	2.7	369
	6/19/2018	5	378
	12/19/2018	9.7	390
	6/11/2019	50	397
	12/10/2019	31	395
	6/25/2020	48	396
	12/17/2020	19	394

Rank Sum = 4659
Rank Mean = 388.25

GWC-8	6/23/2015	ND<1	181.5
	12/10/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/16/2020	ND<1	181.5

Rank Sum = 1996.5
Rank Mean = 181.5

GWC-8R	6/23/2015	ND<1	181.5
	12/10/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/13/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/20/2018	2	366
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2362.5
Rank Mean = 196.875

GWC-16A	6/24/2015	ND<1	181.5
	12/9/2015	3.7	373
	6/16/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/14/2017	6.3	381
	12/13/2017	ND<1	181.5
	6/21/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/13/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2569
Rank Mean = 214.083

GWC-14	6/24/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	6/13/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 1633.5

Rank Mean = 181.5

GWC-2	6/24/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/15/2017	ND<1	181.5
	12/13/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/22/2020	ND<1	181.5
	12/16/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-3	6/24/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/15/2017	ND<1	181.5
	6/21/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/16/2020	ND<1	181.5

Rank Sum = 1996.5
Rank Mean = 181.5

GWC-3A	6/24/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/15/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/16/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-4	6/24/2015	ND<1	181.5
	12/9/2015	ND<1	181.5
	6/16/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/20/2018	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 1270.5
Rank Mean = 181.5

GWC-4A	6/24/2015	ND<1	181.5

	12/9/2015	ND<1	181.5
	6/16/2016	ND<1	181.5
	12/7/2016	ND<1	181.5
	6/13/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	12/17/2018	ND<1	181.5
	6/11/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-5	6/24/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/14/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/12/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/21/2018	ND<1	181.5
	12/18/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/10/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-7	6/24/2015	ND<1	181.5
	12/7/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/12/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/19/2018	ND<1	181.5
	12/18/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/24/2020	ND<1	181.5
	12/17/2020	ND<1	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-8A	6/24/2015	ND<1	181.5
	12/10/2015	ND<1	181.5
	6/15/2016	ND<1	181.5
	12/8/2016	ND<1	181.5
	6/13/2017	ND<1	181.5
	12/12/2017	ND<1	181.5
	6/20/2018	ND<1	181.5
	12/19/2018	ND<1	181.5
	6/12/2019	ND<1	181.5
	12/11/2019	ND<1	181.5
	6/23/2020	ND<1	181.5
	12/15/2020	ND<1	181.5

Rank Sum = 2178

Rank Mean = 181.5

Calculation Results:

Kruskal-Wallis H Statistic = 78.4628
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 324.424
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
78.4628 > 46.1942 indicating a significant group difference at 5% significance level
324.424 > 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 181.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	181.5	0	94.3789
GWC-10	181.5	0	94.3789
GWC-10A	181.5	0	94.3789
GWC-11	181.5	0	94.3789
GWC-12	181.5	0	94.3789
GWC-12A	181.5	0	94.3789
GWC-13	181.5	0	94.3789
GWC-17	181.5	0	97.1968
GWC-18	**381.75**	**200.25**	**94.3789**
GWC-19R	196.625	15.125	94.3789
GWC-22	181.5	0	94.3789
GWC-23	181.5	0	94.3789
GWC-23A	181.5	0	94.3789
GWC-24	181.5	0	94.3789
GWC-6	181.5	0	94.3789
GWC-9	181.5	0	94.3789
GWA-1A	181.5	0	94.3789
GWC-14A	181.5	0	94.3789
GWC-14R	**290.375**	**108.875**	**94.3789**
GWC-15	**388.25**	**206.75**	**94.3789**
GWC-8	181.5	0	97.1968
GWC-8R	196.875	15.375	94.3789
GWC-16A	214.083	32.5833	94.3789
GWC-14	181.5	0	104.34
GWC-2	181.5	0	94.3789
GWC-3	181.5	0	97.1968
GWC-3A	181.5	0	94.3789
GWC-4	181.5	0	114.669
GWC-4A	181.5	0	94.3789
GWC-5	181.5	0	94.3789
GWC-7	181.5	0	94.3789
GWC-8A	181.5	0	94.3789

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 181.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	181.5	0	125.37
GWC-10	181.5	0	125.37
GWC-10A	181.5	0	125.37
GWC-11	181.5	0	125.37

GWC-12	181.5	0	125.37
GWC-12A	181.5	0	125.37
GWC-13	181.5	0	125.37
GWC-17	181.5	0	129.113
GWC-18	**381.75**	**200.25**	**125.37**
GWC-19R	196.625	15.125	125.37
GWC-22	181.5	0	125.37
GWC-23	181.5	0	125.37
GWC-23A	181.5	0	125.37
GWC-24	181.5	0	125.37
GWC-6	181.5	0	125.37
GWC-9	181.5	0	125.37
GWA-1A	181.5	0	125.37
GWC-14A	181.5	0	125.37
GWC-14R	290.375	108.875	125.37
GWC-15	**388.25**	**206.75**	**125.37**
GWC-8	181.5	0	129.113
GWC-8R	196.875	15.375	125.37
GWC-16A	214.083	32.5833	125.37
GWC-14	181.5	0	138.602
GWC-2	181.5	0	125.37
GWC-3	181.5	0	129.113
GWC-3A	181.5	0	125.37
GWC-4	181.5	0	152.323
GWC-4A	181.5	0	125.37
GWC-5	181.5	0	125.37
GWC-7	181.5	0	125.37
GWC-8A	181.5	0	125.37

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	6/23/2015	ND<1	198
	12/8/2015	ND<1	198
	6/14/2016	ND<1	198
	12/7/2016	ND<1	198
	6/13/2017	ND<1	198
	12/11/2017	ND<1	198
	6/19/2018	ND<1	198
	12/17/2018	ND<1	198
	6/10/2019	ND<1	198
	12/9/2019	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWA-2	6/24/2015	ND<1	198
	12/7/2015	ND<1	198
	6/13/2016	ND<1	198
	12/8/2016	ND<1	198
	6/15/2017	ND<1	198
	12/11/2017	ND<1	198
	6/19/2018	ND<1	198
	12/17/2018	ND<1	198
	6/11/2019	ND<1	198
	12/11/2019	ND<1	198
	6/22/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

Background Rank Sum = 4752
Background Rank Mean = 198

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	198
	12/7/2015	ND<1	198
	6/13/2016	ND<1	198
	12/8/2016	ND<1	198
	6/14/2017	ND<1	198
	12/11/2017	ND<1	198
	6/18/2018	ND<1	198
	12/17/2018	ND<1	198
	6/11/2019	ND<1	198
	12/10/2019	ND<1	198
	6/22/2020	ND<1	198

	12/16/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-10	6/22/2015	ND<1	198
	12/7/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/15/2017	ND<1	198
	12/12/2017	ND<1	198
	6/19/2018	ND<1	198
	12/17/2018	ND<1	198
	6/10/2019	ND<1	198
	12/12/2019	ND<1	198
	6/24/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-10A	6/22/2015	ND<1	198
	12/7/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/15/2017	ND<1	198
	12/12/2017	ND<1	198
	6/19/2018	ND<1	198
	12/17/2018	ND<1	198
	6/10/2019	ND<1	198
	12/12/2019	ND<1	198
	6/24/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-11	6/22/2015	ND<1	198
	12/7/2015	ND<1	198
	6/14/2016	ND<1	198
	12/7/2016	ND<1	198
	6/14/2017	ND<1	198
	12/13/2017	ND<1	198
	6/19/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/12/2019	ND<1	198
	6/24/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-12	6/22/2015	ND<1	198
	12/7/2015	ND<1	198
	6/14/2016	ND<1	198
	12/7/2016	ND<1	198
	6/14/2017	ND<1	198
	12/13/2017	ND<1	198
	6/19/2018	ND<1	198
	12/19/2018	ND<1	198

	6/11/2019	ND<1	198
	12/9/2019	ND<1	198
	6/24/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-12A	6/22/2015	ND<1	198
	12/7/2015	ND<1	198
	6/14/2016	ND<1	198
	12/7/2016	ND<1	198
	6/14/2017	ND<1	198
	12/13/2017	ND<1	198
	6/19/2018	ND<1	198
	12/19/2018	ND<1	198
	6/11/2019	ND<1	198
	12/9/2019	ND<1	198
	6/24/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-13	6/22/2015	ND<1	198
	12/7/2015	ND<1	198
	6/15/2016	ND<1	198
	12/7/2016	ND<1	198
	6/14/2017	ND<1	198
	12/12/2017	ND<1	198
	6/19/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/23/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-17	6/22/2015	ND<1	198
	12/8/2015	ND<1	198
	6/13/2016	ND<1	198
	6/14/2017	ND<1	198
	12/12/2017	ND<1	198
	6/19/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/10/2019	ND<1	198
	6/23/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2178			
Rank Mean = 198			

GWC-18	6/22/2015	ND<1	198
	12/9/2015	ND<1	198
	6/13/2016	ND<1	198
	12/6/2016	ND<1	198
	6/14/2017	ND<1	198
	12/13/2017	ND<1	198

	6/19/2018	ND<1	198
	12/18/2018	ND<1	198
	6/11/2019	ND<1	198
	12/9/2019	ND<1	198
	6/23/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-19R	6/22/2015	ND<1	198
	12/9/2015	ND<1	198
	6/15/2016	ND<1	198
	12/6/2016	ND<1	198
	6/14/2017	ND<1	198
	12/13/2017	ND<1	198
	6/19/2018	ND<1	198
	12/18/2018	ND<1	198
	6/11/2019	ND<1	198
	12/9/2019	ND<1	198
	6/23/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-22	6/22/2015	ND<1	198
	12/9/2015	ND<1	198
	6/15/2016	ND<1	198
	12/6/2016	ND<1	198
	6/14/2017	ND<1	198
	12/11/2017	ND<1	198
	6/19/2018	ND<1	198
	12/18/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-23	6/22/2015	ND<1	198
	12/8/2015	ND<1	198
	6/15/2016	ND<1	198
	12/6/2016	ND<1	198
	6/14/2017	ND<1	198
	12/11/2017	ND<1	198
	6/18/2018	ND<1	198
	12/18/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/24/2020	ND<1	198
	12/16/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-23A	6/22/2015	ND<1	198
	12/8/2015	ND<1	198
	6/15/2016	ND<1	198

	12/6/2016	ND<1	198
	6/14/2017	ND<1	198
	12/11/2017	ND<1	198
	6/18/2018	ND<1	198
	12/18/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/24/2020	ND<1	198
	12/16/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-24	6/22/2015	ND<1	198
	12/8/2015	ND<1	198
	6/13/2016	ND<1	198
	12/7/2016	ND<1	198
	6/14/2017	ND<1	198
	12/13/2017	ND<1	198
	6/19/2018	ND<1	198
	12/19/2018	ND<1	198
	6/11/2019	ND<1	198
	12/9/2019	ND<1	198
	6/24/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-6	6/22/2015	ND<1	198
	12/8/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/12/2017	ND<1	198
	12/13/2017	ND<1	198
	6/21/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/10/2019	ND<1	198
	6/24/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			
GWC-9	6/22/2015	ND<1	198
	12/8/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/15/2017	ND<1	198
	12/13/2017	ND<1	198
	6/20/2018	ND<1	198
	12/18/2018	ND<1	198
	6/12/2019	ND<1	198
	12/12/2019	ND<1	198
	6/24/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWA-1A	6/23/2015	ND<1	198
	12/8/2015	ND<1	198
	6/14/2016	ND<1	198
	12/7/2016	ND<1	198
	6/12/2017	ND<1	198
	12/13/2017	ND<1	198
	6/19/2018	ND<1	198
	12/18/2018	ND<1	198
	6/10/2019	ND<1	198
	12/9/2019	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-14A	6/23/2015	ND<1	198
	12/9/2015	ND<1	198
	6/15/2016	ND<1	198
	12/8/2016	ND<1	198
	6/13/2017	ND<1	198
	12/12/2017	ND<1	198
	6/20/2018	ND<1	198
	12/19/2018	ND<1	198
	6/11/2019	ND<1	198
	12/10/2019	ND<1	198
	6/24/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-14R	6/23/2015	ND<1	198
	12/10/2015	ND<1	198
	6/15/2016	ND<1	198
	12/8/2016	ND<1	198
	6/13/2017	ND<1	198
	12/12/2017	ND<1	198
	6/20/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/10/2019	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-15	6/23/2015	ND<1	198
	12/9/2015	ND<1	198
	6/15/2016	ND<1	198
	12/8/2016	ND<1	198
	6/14/2017	ND<1	198
	12/13/2017	ND<1	198
	6/19/2018	ND<1	198
	12/19/2018	ND<1	198
	6/11/2019	ND<1	198
	12/10/2019	ND<1	198
	6/25/2020	ND<1	198
	12/17/2020	ND<1	198

Rank Sum = 2376
Rank Mean = 198

GWC-8	6/23/2015	ND<1	198
	12/10/2015	ND<1	198
	6/15/2016	ND<1	198
	12/8/2016	ND<1	198
	12/12/2017	ND<1	198
	6/20/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/23/2020	ND<1	198
	12/16/2020	ND<1	198
Rank Sum = 2178			
Rank Mean = 198			

GWC-8R	6/23/2015	ND<1	198
	12/10/2015	ND<1	198
	6/15/2016	ND<1	198
	12/8/2016	ND<1	198
	6/13/2017	ND<1	198
	12/12/2017	ND<1	198
	6/20/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/23/2020	ND<1	198
	12/15/2020	ND<1	198
Rank Sum = 2376			
Rank Mean = 198			

GWC-16A	6/24/2015	ND<1	198
	12/9/2015	4.3	397
	6/16/2016	ND<1	198
	12/7/2016	ND<1	198
	6/14/2017	3.2	396
	12/13/2017	ND<1	198
	6/21/2018	ND<1	198
	12/19/2018	ND<1	198
	6/13/2019	ND<1	198
	12/11/2019	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 2773			
Rank Mean = 231.083			

GWC-14	6/24/2015	ND<1	198
	12/9/2015	ND<1	198
	6/15/2016	ND<1	198
	6/13/2017	ND<1	198
	6/20/2018	ND<1	198
	6/11/2019	ND<1	198
	12/10/2019	ND<1	198
	6/24/2020	ND<1	198
	12/17/2020	ND<1	198
Rank Sum = 1782			

Rank Mean = 198

GWC-2	6/24/2015	ND<1	198
	12/9/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/15/2017	ND<1	198
	12/13/2017	ND<1	198
	6/20/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/10/2019	ND<1	198
	6/22/2020	ND<1	198
	12/16/2020	ND<1	198

Rank Sum = 2376
Rank Mean = 198

GWC-3	6/24/2015	ND<1	198
	12/9/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/15/2017	ND<1	198
	6/21/2018	ND<1	198
	12/17/2018	ND<1	198
	6/11/2019	ND<1	198
	12/10/2019	ND<1	198
	6/24/2020	ND<1	198
	12/16/2020	ND<1	198

Rank Sum = 2178
Rank Mean = 198

GWC-3A	6/24/2015	ND<1	198
	12/9/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/15/2017	ND<1	198
	12/12/2017	ND<1	198
	6/20/2018	ND<1	198
	12/17/2018	ND<1	198
	6/11/2019	ND<1	198
	12/10/2019	ND<1	198
	6/24/2020	ND<1	198
	12/16/2020	ND<1	198

Rank Sum = 2376
Rank Mean = 198

GWC-4	6/24/2015	ND<1	198
	12/9/2015	ND<1	198
	6/16/2016	ND<1	198
	12/7/2016	ND<1	198
	6/20/2018	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198

Rank Sum = 1386
Rank Mean = 198

GWC-4A	6/24/2015	ND<1	198

	12/9/2015	ND<1	198
	6/16/2016	ND<1	198
	12/7/2016	ND<1	198
	6/13/2017	ND<1	198
	12/12/2017	ND<1	198
	6/20/2018	ND<1	198
	12/17/2018	ND<1	198
	6/11/2019	ND<1	198
	12/11/2019	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198

Rank Sum = 2376
Rank Mean = 198

GWC-5	6/24/2015	ND<1	198
	12/7/2015	ND<1	198
	6/14/2016	ND<1	198
	12/8/2016	ND<1	198
	6/12/2017	ND<1	198
	12/12/2017	ND<1	198
	6/21/2018	ND<1	198
	12/18/2018	ND<1	198
	6/12/2019	ND<1	198
	12/10/2019	ND<1	198
	6/23/2020	ND<1	198
	12/17/2020	ND<1	198

Rank Sum = 2376
Rank Mean = 198

GWC-7	6/24/2015	ND<1	198
	12/7/2015	ND<1	198
	6/15/2016	ND<1	198
	12/8/2016	ND<1	198
	6/12/2017	ND<1	198
	12/12/2017	ND<1	198
	6/19/2018	ND<1	198
	12/18/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/24/2020	ND<1	198
	12/17/2020	ND<1	198

Rank Sum = 2376
Rank Mean = 198

GWC-8A	6/24/2015	ND<1	198
	12/10/2015	ND<1	198
	6/15/2016	ND<1	198
	12/8/2016	ND<1	198
	6/13/2017	ND<1	198
	12/12/2017	ND<1	198
	6/20/2018	ND<1	198
	12/19/2018	ND<1	198
	6/12/2019	ND<1	198
	12/11/2019	ND<1	198
	6/23/2020	ND<1	198
	12/15/2020	ND<1	198

Rank Sum = 2376

Rank Mean = 198

Calculation Results:

Kruskal-Wallis H Statistic = 0.967337
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.3287
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
0.967337 < 46.1942 indicating no significant group difference at 5% significance level
64.3287 > 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 198

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	94.3789
GWC-10	198	0	94.3789
GWC-10A	198	0	94.3789
GWC-11	198	0	94.3789
GWC-12	198	0	94.3789
GWC-12A	198	0	94.3789
GWC-13	198	0	94.3789
GWC-17	198	0	97.1968
GWC-18	198	0	94.3789
GWC-19R	198	0	94.3789
GWC-22	198	0	94.3789
GWC-23	198	0	94.3789
GWC-23A	198	0	94.3789
GWC-24	198	0	94.3789
GWC-6	198	0	94.3789
GWC-9	198	0	94.3789
GWA-1A	198	0	94.3789
GWC-14A	198	0	94.3789
GWC-14R	198	0	94.3789
GWC-15	198	0	94.3789
GWC-8	198	0	97.1968
GWC-8R	198	0	94.3789
GWC-16A	231.083	33.0833	94.3789
GWC-14	198	0	104.34
GWC-2	198	0	94.3789
GWC-3	198	0	97.1968
GWC-3A	198	0	94.3789
GWC-4	198	0	114.669
GWC-4A	198	0	94.3789
GWC-5	198	0	94.3789
GWC-7	198	0	94.3789
GWC-8A	198	0	94.3789

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 198

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	125.37
GWC-10	198	0	125.37
GWC-10A	198	0	125.37
GWC-11	198	0	125.37

GWC-12	198	0	125.37
GWC-12A	198	0	125.37
GWC-13	198	0	125.37
GWC-17	198	0	129.113
GWC-18	198	0	125.37
GWC-19R	198	0	125.37
GWC-22	198	0	125.37
GWC-23	198	0	125.37
GWC-23A	198	0	125.37
GWC-24	198	0	125.37
GWC-6	198	0	125.37
GWC-9	198	0	125.37
GWA-1A	198	0	125.37
GWC-14A	198	0	125.37
GWC-14R	198	0	125.37
GWC-15	198	0	125.37
GWC-8	198	0	129.113
GWC-8R	198	0	125.37
GWC-16A	231.083	33.0833	125.37
GWC-14	198	0	138.602
GWC-2	198	0	125.37
GWC-3	198	0	129.113
GWC-3A	198	0	125.37
GWC-4	198	0	152.323
GWC-4A	198	0	125.37
GWC-5	198	0	125.37
GWC-7	198	0	125.37
GWC-8A	198	0	125.37

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	6/23/2015	ND<1	178
	12/8/2015	ND<1	178
	6/14/2016	ND<1	178
	12/7/2016	ND<1	178
	6/13/2017	ND<1	178
	12/11/2017	ND<1	178
	6/19/2018	ND<1	178
	12/17/2018	ND<1	178
	6/10/2019	ND<1	178
	12/9/2019	ND<1	178
	6/23/2020	ND<1	178
	12/17/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWA-2	6/24/2015	ND<1	178
	12/7/2015	ND<1	178
	6/13/2016	ND<1	178
	12/8/2016	ND<1	178
	6/15/2017	ND<1	178
	12/11/2017	ND<1	178
	6/19/2018	ND<1	178
	12/17/2018	ND<1	178
	6/11/2019	ND<1	178
	12/11/2019	ND<1	178
	6/22/2020	ND<1	178
	12/17/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			

Background Rank Sum = 4272
Background Rank Mean = 178

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	178
	12/7/2015	ND<1	178
	6/13/2016	ND<1	178
	12/8/2016	ND<1	178
	6/14/2017	ND<1	178
	12/11/2017	ND<1	178
	6/18/2018	ND<1	178
	12/17/2018	ND<1	178
	6/11/2019	ND<1	178
	12/10/2019	ND<1	178
	6/22/2020	ND<1	178

	12/16/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-10	6/22/2015	ND<1	178
	12/7/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/15/2017	ND<1	178
	12/12/2017	ND<1	178
	6/19/2018	ND<1	178
	12/17/2018	ND<1	178
	6/10/2019	ND<1	178
	12/12/2019	ND<1	178
	6/24/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-10A	6/22/2015	ND<1	178
	12/7/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/15/2017	ND<1	178
	12/12/2017	ND<1	178
	6/19/2018	ND<1	178
	12/17/2018	ND<1	178
	6/10/2019	ND<1	178
	12/12/2019	ND<1	178
	6/24/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-11	6/22/2015	ND<1	178
	12/7/2015	ND<1	178
	6/14/2016	ND<1	178
	12/7/2016	ND<1	178
	6/14/2017	ND<1	178
	12/13/2017	ND<1	178
	6/19/2018	ND<1	178
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/12/2019	ND<1	178
	6/24/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-12	6/22/2015	ND<1	178
	12/7/2015	ND<1	178
	6/14/2016	ND<1	178
	12/7/2016	ND<1	178
	6/14/2017	ND<1	178
	12/13/2017	ND<1	178
	6/19/2018	ND<1	178
	12/19/2018	ND<1	178

	6/11/2019	ND<1	178
	12/9/2019	ND<1	178
	6/24/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-12A	6/22/2015	ND<1	178
	12/7/2015	ND<1	178
	6/14/2016	ND<1	178
	12/7/2016	ND<1	178
	6/14/2017	ND<1	178
	12/13/2017	ND<1	178
	6/19/2018	ND<1	178
	12/19/2018	ND<1	178
	6/11/2019	ND<1	178
	12/9/2019	ND<1	178
	6/24/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-13	6/22/2015	ND<1	178
	12/7/2015	ND<1	178
	6/15/2016	ND<1	178
	12/7/2016	ND<1	178
	6/14/2017	ND<1	178
	12/12/2017	ND<1	178
	6/19/2018	ND<1	178
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/23/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-17	6/22/2015	ND<1	178
	12/8/2015	ND<1	178
	6/13/2016	ND<1	178
	6/14/2017	ND<1	178
	12/12/2017	ND<1	178
	6/19/2018	ND<1	178
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/10/2019	ND<1	178
	6/23/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 1958			
Rank Mean = 178			
GWC-18	6/22/2015	3.5	370
	12/9/2015	2.7	366
	6/13/2016	ND<1	178
	12/6/2016	2.3	361
	6/14/2017	ND<1	178
	12/13/2017	2.3	362

	6/19/2018	ND<1	178
	12/18/2018	2.1	356
	6/11/2019	ND<1	178
	12/9/2019	2.6	365
	6/23/2020	ND<1	178
	12/15/2020	2.4	363
Rank Sum = 3433			
Rank Mean = 286.083			
GWC-19R	6/22/2015	ND<1	178
	12/9/2015	ND<1	178
	6/15/2016	ND<1	178
	12/6/2016	ND<1	178
	6/14/2017	ND<1	178
	12/13/2017	ND<1	178
	6/19/2018	ND<1	178
	12/18/2018	ND<1	178
	6/11/2019	ND<1	178
	12/9/2019	ND<1	178
	6/23/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-22	6/22/2015	ND<1	178
	12/9/2015	ND<1	178
	6/15/2016	ND<1	178
	12/6/2016	ND<1	178
	6/14/2017	ND<1	178
	12/11/2017	ND<1	178
	6/19/2018	ND<1	178
	12/18/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/23/2020	ND<1	178
	12/17/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-23	6/22/2015	ND<1	178
	12/8/2015	ND<1	178
	6/15/2016	ND<1	178
	12/6/2016	ND<1	178
	6/14/2017	ND<1	178
	12/11/2017	ND<1	178
	6/18/2018	ND<1	178
	12/18/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/24/2020	ND<1	178
	12/16/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			
GWC-23A	6/22/2015	ND<1	178
	12/8/2015	ND<1	178
	6/15/2016	ND<1	178

	12/6/2016	ND<1	178
	6/14/2017	ND<1	178
	12/11/2017	ND<1	178
	6/18/2018	ND<1	178
	12/18/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/24/2020	ND<1	178
	12/16/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			

GWC-24	6/22/2015	ND<1	178
	12/8/2015	ND<1	178
	6/13/2016	ND<1	178
	12/7/2016	ND<1	178
	6/14/2017	ND<1	178
	12/13/2017	ND<1	178
	6/19/2018	ND<1	178
	12/19/2018	ND<1	178
	6/11/2019	ND<1	178
	12/9/2019	ND<1	178
	6/24/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			

GWC-6	6/22/2015	ND<1	178
	12/8/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/12/2017	ND<1	178
	12/13/2017	ND<1	178
	6/21/2018	ND<1	178
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/10/2019	ND<1	178
	6/24/2020	ND<1	178
	12/17/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			

GWC-9	6/22/2015	ND<1	178
	12/8/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/15/2017	ND<1	178
	12/13/2017	ND<1	178
	6/20/2018	ND<1	178
	12/18/2018	ND<1	178
	6/12/2019	ND<1	178
	12/12/2019	ND<1	178
	6/24/2020	ND<1	178
	12/17/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			

GWA-1A	6/23/2015	ND<1	178
	12/8/2015	ND<1	178
	6/14/2016	ND<1	178
	12/7/2016	ND<1	178
	6/12/2017	ND<1	178
	12/13/2017	ND<1	178
	6/19/2018	ND<1	178
	12/18/2018	ND<1	178
	6/10/2019	ND<1	178
	12/9/2019	ND<1	178
	6/23/2020	ND<1	178
	12/17/2020	ND<1	178
Rank Sum = 2136			
Rank Mean = 178			

GWC-14A	6/23/2015	5	382
	12/9/2015	5.3	384
	6/15/2016	4.3	376
	12/8/2016	6.8	389
	6/13/2017	3.5	371
	12/12/2017	3.8	373
	6/20/2018	2.1	357
	12/19/2018	2.2	359
	6/11/2019	ND<1	178
	12/10/2019	3.1	369
	6/24/2020	ND<1	178
	12/15/2020	ND<1	178
Rank Sum = 3894			
Rank Mean = 324.5			

GWC-14R	6/23/2015	8.2	392
	12/10/2015	6.7	388
	6/15/2016	6.1	387
	12/8/2016	5.4	386
	6/13/2017	6.8	390
	12/12/2017	4.8	380
	6/20/2018	5.2	383
	12/19/2018	4.9	381
	6/12/2019	4.7	379
	12/10/2019	4.3	377
	6/23/2020	4.3	378
	12/17/2020	3.9	374
Rank Sum = 4595			
Rank Mean = 382.917			

GWC-15	6/23/2015	ND<1	178
	12/9/2015	2.4	364
	6/15/2016	ND<1	178
	12/8/2016	73	396
	6/14/2017	2.1	358
	12/13/2017	ND<1	178
	6/19/2018	ND<1	178
	12/19/2018	3.7	372
	6/11/2019	70	395
	12/10/2019	55	394
	6/25/2020	90	397
	12/17/2020	45	393

Rank Sum = 3781
Rank Mean = 315.083

GWC-8	6/23/2015	ND<1	178
	12/10/2015	ND<1	178
	6/15/2016	ND<1	178
	12/8/2016	ND<1	178
	12/12/2017	ND<1	178
	6/20/2018	ND<1	178
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/23/2020	ND<1	178
	12/16/2020	ND<1	178

Rank Sum = 1958
Rank Mean = 178

GWC-8R	6/23/2015	2.2	360
	12/10/2015	2.9	367
	6/15/2016	ND<1	178
	12/8/2016	ND<1	178
	6/13/2017	2.9	368
	12/12/2017	ND<1	178
	6/20/2018	5.3	385
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/23/2020	ND<1	178
	12/15/2020	ND<1	178

Rank Sum = 2904
Rank Mean = 242

GWC-16A	6/24/2015	ND<1	178
	12/9/2015	7	391
	6/16/2016	ND<1	178
	12/7/2016	ND<1	178
	6/14/2017	3.9	375
	12/13/2017	ND<1	178
	6/21/2018	ND<1	178
	12/19/2018	ND<1	178
	6/13/2019	ND<1	178
	12/11/2019	ND<1	178
	6/23/2020	ND<1	178
	12/17/2020	ND<1	178

Rank Sum = 2546
Rank Mean = 212.167

GWC-14	6/24/2015	ND<1	178
	12/9/2015	ND<1	178
	6/15/2016	ND<1	178
	6/13/2017	ND<1	178
	6/20/2018	ND<1	178
	6/11/2019	ND<1	178
	12/10/2019	ND<1	178
	6/24/2020	ND<1	178
	12/17/2020	ND<1	178

Rank Sum = 1602

Rank Mean = 178

GWC-2	6/24/2015	ND<1	178
	12/9/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/15/2017	ND<1	178
	12/13/2017	ND<1	178
	6/20/2018	ND<1	178
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/10/2019	ND<1	178
	6/22/2020	ND<1	178
	12/16/2020	ND<1	178

Rank Sum = 2136
Rank Mean = 178

GWC-3	6/24/2015	ND<1	178
	12/9/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/15/2017	ND<1	178
	6/21/2018	ND<1	178
	12/17/2018	ND<1	178
	6/11/2019	ND<1	178
	12/10/2019	ND<1	178
	6/24/2020	ND<1	178
	12/16/2020	ND<1	178

Rank Sum = 1958
Rank Mean = 178

GWC-3A	6/24/2015	ND<1	178
	12/9/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/15/2017	ND<1	178
	12/12/2017	ND<1	178
	6/20/2018	ND<1	178
	12/17/2018	ND<1	178
	6/11/2019	ND<1	178
	12/10/2019	ND<1	178
	6/24/2020	ND<1	178
	12/16/2020	ND<1	178

Rank Sum = 2136
Rank Mean = 178

GWC-4	6/24/2015	ND<1	178
	12/9/2015	ND<1	178
	6/16/2016	ND<1	178
	12/7/2016	ND<1	178
	6/20/2018	ND<1	178
	6/23/2020	ND<1	178
	12/17/2020	ND<1	178

Rank Sum = 1246
Rank Mean = 178

GWC-4A	6/24/2015	ND<1	178

	12/9/2015	ND<1	178
	6/16/2016	ND<1	178
	12/7/2016	ND<1	178
	6/13/2017	ND<1	178
	12/12/2017	ND<1	178
	6/20/2018	ND<1	178
	12/17/2018	ND<1	178
	6/11/2019	ND<1	178
	12/11/2019	ND<1	178
	6/23/2020	ND<1	178
	12/17/2020	ND<1	178

Rank Sum = 2136
Rank Mean = 178

GWC-5	6/24/2015	ND<1	178
	12/7/2015	ND<1	178
	6/14/2016	ND<1	178
	12/8/2016	ND<1	178
	6/12/2017	ND<1	178
	12/12/2017	ND<1	178
	6/21/2018	ND<1	178
	12/18/2018	ND<1	178
	6/12/2019	ND<1	178
	12/10/2019	ND<1	178
	6/23/2020	ND<1	178
	12/17/2020	ND<1	178

Rank Sum = 2136
Rank Mean = 178

GWC-7	6/24/2015	ND<1	178
	12/7/2015	ND<1	178
	6/15/2016	ND<1	178
	12/8/2016	ND<1	178
	6/12/2017	ND<1	178
	12/12/2017	ND<1	178
	6/19/2018	ND<1	178
	12/18/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/24/2020	ND<1	178
	12/17/2020	ND<1	178

Rank Sum = 2136
Rank Mean = 178

GWC-8A	6/24/2015	ND<1	178
	12/10/2015	ND<1	178
	6/15/2016	ND<1	178
	12/8/2016	ND<1	178
	6/13/2017	ND<1	178
	12/12/2017	ND<1	178
	6/20/2018	ND<1	178
	12/19/2018	ND<1	178
	6/12/2019	ND<1	178
	12/11/2019	ND<1	178
	6/23/2020	ND<1	178
	12/15/2020	ND<1	178

Rank Sum = 2136

Rank Mean = 178

Calculation Results:

Kruskal-Wallis H Statistic = 77.1014
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 270.542
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
77.1014 > 46.1942 indicating a significant group difference at 5% significance level
270.542 > 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 178

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	178	0	94.3789
GWC-10	178	0	94.3789
GWC-10A	178	0	94.3789
GWC-11	178	0	94.3789
GWC-12	178	0	94.3789
GWC-12A	178	0	94.3789
GWC-13	178	0	94.3789
GWC-17	178	0	97.1968
GWC-18	**286.083**	**108.083**	**94.3789**
GWC-19R	178	0	94.3789
GWC-22	178	0	94.3789
GWC-23	178	0	94.3789
GWC-23A	178	0	94.3789
GWC-24	178	0	94.3789
GWC-6	178	0	94.3789
GWC-9	178	0	94.3789
GWA-1A	178	0	94.3789
GWC-14A	**324.5**	**146.5**	**94.3789**
GWC-14R	**382.917**	**204.917**	**94.3789**
GWC-15	**315.083**	**137.083**	**94.3789**
GWC-8	178	0	97.1968
GWC-8R	242	64	94.3789
GWC-16A	212.167	34.1667	94.3789
GWC-14	178	0	104.34
GWC-2	178	0	94.3789
GWC-3	178	0	97.1968
GWC-3A	178	0	94.3789
GWC-4	178	0	114.669
GWC-4A	178	0	94.3789
GWC-5	178	0	94.3789
GWC-7	178	0	94.3789
GWC-8A	178	0	94.3789

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 178

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	178	0	125.37
GWC-10	178	0	125.37
GWC-10A	178	0	125.37
GWC-11	178	0	125.37

GWC-12	178	0	125.37
GWC-12A	178	0	125.37
GWC-13	178	0	125.37
GWC-17	178	0	129.113
GWC-18	286.083	108.083	125.37
GWC-19R	178	0	125.37
GWC-22	178	0	125.37
GWC-23	178	0	125.37
GWC-23A	178	0	125.37
GWC-24	178	0	125.37
GWC-6	178	0	125.37
GWC-9	178	0	125.37
GWA-1A	178	0	125.37
GWC-14A	**324.5**	**146.5**	**125.37**
GWC-14R	**382.917**	**204.917**	**125.37**
GWC-15	**315.083**	**137.083**	**125.37**
GWC-8	178	0	129.113
GWC-8R	242	64	125.37
GWC-16A	212.167	34.1667	125.37
GWC-14	178	0	138.602
GWC-2	178	0	125.37
GWC-3	178	0	129.113
GWC-3A	178	0	125.37
GWC-4	178	0	152.323
GWC-4A	178	0	125.37
GWC-5	178	0	125.37
GWC-7	178	0	125.37
GWC-8A	178	0	125.37

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	6/23/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWA-2	6/24/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/13/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/22/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

Background Rank Sum = 4596
Background Rank Mean = 191.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/22/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/13/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/18/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/22/2020	ND<1	191.5

	12/16/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-10	6/22/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-10A	6/22/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-11	6/22/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-12	6/22/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5

	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-12A	6/22/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-13	6/22/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-17	6/22/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/13/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2106.5
Rank Mean = 191.5

GWC-18	6/22/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/13/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5

	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-19R	6/22/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-22	6/22/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-23	6/22/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/18/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-23A	6/22/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/15/2016	ND<1	191.5

	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/18/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-24	6/22/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/13/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-6	6/22/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/21/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-9	6/22/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWA-1A	6/23/2015	ND<1	191.5
	12/8/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-14A	6/23/2015	6.3	394
	12/9/2015	6.1	392
	6/15/2016	8.4	396
	12/8/2016	5.7	389
	6/13/2017	3.5	384
	12/12/2017	6	390
	6/20/2018	6.2	393
	12/19/2018	4.9	388
	6/11/2019	4.3	386
	12/10/2019	4	385
	6/24/2020	7.5	395
	12/15/2020	11	397
Rank Sum = 4689			
Rank Mean = 390.75			

GWC-14R	6/23/2015	ND<1	191.5
	12/10/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-15	6/23/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/8/2016	2.3	383
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/25/2020	ND<1	191.5
	12/17/2020	ND<1	191.5

Rank Sum = 2489.5			
Rank Mean = 207.458			

GWC-8	6/23/2015	ND<1	191.5
	12/10/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
Rank Sum = 2106.5			
Rank Mean = 191.5			

GWC-8R	6/23/2015	ND<1	191.5
	12/10/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-16A	6/24/2015	ND<1	191.5
	12/9/2015	6	391
	6/16/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	4.8	387
	12/13/2017	ND<1	191.5
	6/21/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/13/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 2693			
Rank Mean = 224.417			

GWC-14	6/24/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
Rank Sum = 1723.5			

Rank Mean = 191.5

GWC-2	6/24/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/22/2020	ND<1	191.5
	12/16/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-3	6/24/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	6/21/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5

Rank Sum = 2106.5
Rank Mean = 191.5

GWC-3A	6/24/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-4	6/24/2015	ND<1	191.5
	12/9/2015	ND<1	191.5
	6/16/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/20/2018	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5

Rank Sum = 1340.5
Rank Mean = 191.5

GWC-4A	6/24/2015	ND<1	191.5

	12/9/2015	ND<1	191.5
	6/16/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-5	6/24/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/21/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-7	6/24/2015	ND<1	191.5
	12/7/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

GWC-8A	6/24/2015	ND<1	191.5
	12/10/2015	ND<1	191.5
	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5

Rank Sum = 2298

Rank Mean = 191.5

Calculation Results:
Kruskal-Wallis H Statistic = 35.705
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 327.203
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
35.705 < 46.1942 indicating no significant group difference at 5% significance level
327.203 > 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 191.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	191.5	0	94.3789
GWC-10	191.5	0	94.3789
GWC-10A	191.5	0	94.3789
GWC-11	191.5	0	94.3789
GWC-12	191.5	0	94.3789
GWC-12A	191.5	0	94.3789
GWC-13	191.5	0	94.3789
GWC-17	191.5	0	97.1968
GWC-18	191.5	0	94.3789
GWC-19R	191.5	0	94.3789
GWC-22	191.5	0	94.3789
GWC-23	191.5	0	94.3789
GWC-23A	191.5	0	94.3789
GWC-24	191.5	0	94.3789
GWC-6	191.5	0	94.3789
GWC-9	191.5	0	94.3789
GWA-1A	191.5	0	94.3789
GWC-14A	**390.75**	**199.25**	**94.3789**
GWC-14R	191.5	0	94.3789
GWC-15	207.458	15.9583	94.3789
GWC-8	191.5	0	97.1968
GWC-8R	191.5	0	94.3789
GWC-16A	224.417	32.9167	94.3789
GWC-14	191.5	0	104.34
GWC-2	191.5	0	94.3789
GWC-3	191.5	0	97.1968
GWC-3A	191.5	0	94.3789
GWC-4	191.5	0	114.669
GWC-4A	191.5	0	94.3789
GWC-5	191.5	0	94.3789
GWC-7	191.5	0	94.3789
GWC-8A	191.5	0	94.3789

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 191.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	191.5	0	125.37
GWC-10	191.5	0	125.37
GWC-10A	191.5	0	125.37
GWC-11	191.5	0	125.37

GWC-12	191.5	0	125.37
GWC-12A	191.5	0	125.37
GWC-13	191.5	0	125.37
GWC-17	191.5	0	129.113
GWC-18	191.5	0	125.37
GWC-19R	191.5	0	125.37
GWC-22	191.5	0	125.37
GWC-23	191.5	0	125.37
GWC-23A	191.5	0	125.37
GWC-24	191.5	0	125.37
GWC-6	191.5	0	125.37
GWC-9	191.5	0	125.37
GWA-1A	191.5	0	125.37
GWC-14A	**390.75**	**199.25**	**125.37**
GWC-14R	191.5	0	125.37
GWC-15	207.458	15.9583	125.37
GWC-8	191.5	0	129.113
GWC-8R	191.5	0	125.37
GWC-16A	224.417	32.9167	125.37
GWC-14	191.5	0	138.602
GWC-2	191.5	0	125.37
GWC-3	191.5	0	129.113
GWC-3A	191.5	0	125.37
GWC-4	191.5	0	152.323
GWC-4A	191.5	0	125.37
GWC-5	191.5	0	125.37
GWC-7	191.5	0	125.37
GWC-8A	191.5	0	125.37

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	6/24/2015	22	138
	12/9/2015	22	139
	6/15/2016	29	197
	12/8/2016	26	176
	6/14/2017	28	191
	12/12/2017	27	183
	6/20/2018	32	214
	12/18/2018	28	192
	6/11/2019	28	193
	12/10/2019	20.9	132
	6/24/2020	22.3	149
	12/18/2020	27	184
Rank Sum = 2088			
Rank Mean = 174			
GWA-2	6/25/2015	23	152
	12/8/2015	26	177
	6/14/2016	36	240
	12/9/2016	ND<10	61
	6/16/2017	26	178
	12/12/2017	25	167
	6/20/2018	23	153
	12/18/2018	32	215
	6/12/2019	23	154
	12/12/2019	39.5	257
	6/23/2020	20	122
	12/18/2020	22	140
Rank Sum = 2016			
Rank Mean = 168			

Background Rank Sum = 4104
Background Rank Mean = 171

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/23/2015	38	248
	12/8/2015	34	226
	6/14/2016	35	232
	12/7/2016	33	220
	6/12/2017	36	241
	12/13/2017	33	221
	6/20/2018	30	203
	12/18/2018	32	216
	6/10/2019	41	264
	12/9/2019	30	204
	6/23/2020	30.3	206

	12/17/2020	31.9	213
Rank Sum = 2694			
Rank Mean = 224.5			
GWA-3	6/23/2015	ND<10	61
	12/8/2015	ND<10	61
	6/14/2016	ND<10	61
	12/9/2016	ND<10	61
	6/15/2017	ND<10	61
	12/12/2017	ND<10	61
	6/19/2018	ND<10	61
	12/18/2018	ND<10	61
	6/12/2019	ND<10	61
	12/11/2019	22.9	151
	6/23/2020	ND<10	61
	12/17/2020	ND<10	61
Rank Sum = 822			
Rank Mean = 68.5			
GWC-10	6/23/2015	22	141
	12/8/2015	ND<10	61
	6/15/2016	21	133
	12/9/2016	20	123
	6/16/2017	20	124
	12/13/2017	48	283
	6/20/2018	ND<10	61
	12/18/2018	ND<10	61
	6/11/2019	22	142
	12/13/2019	ND<10	61
	6/25/2020	ND<10	61
	12/16/2020	ND<10	61
Rank Sum = 1312			
Rank Mean = 109.333			
GWC-10A	6/23/2015	27	185
	12/8/2015	27	186
	6/15/2016	29	198
	12/9/2016	31	209
	6/16/2017	31	210
	12/13/2017	32	217
	6/20/2018	34	227
	12/18/2018	35	233
	6/11/2019	33	222
	12/13/2019	35.2	238
	6/25/2020	29.6	201
	12/16/2020	32.5	218
Rank Sum = 2544			
Rank Mean = 212			
GWC-11	6/23/2015	28	194
	12/8/2015	27	187
	6/15/2016	24	159
	12/8/2016	22	143
	6/15/2017	24	160
	12/14/2017	42	269
	6/20/2018	21	134
	12/20/2018	ND<10	61

	6/13/2019	40	258
	12/13/2019	35.9	239
	6/25/2020	25.9	175
	12/16/2020	25.4	172

Rank Sum = 2151
Rank Mean = 179.25

GWC-12	6/23/2015	26	179
	12/8/2015	ND<10	61
	6/15/2016	20	125
	12/8/2016	ND<10	61
	6/15/2017	ND<10	61
	12/14/2017	ND<10	61
	6/20/2018	ND<10	61
	12/20/2018	34	228
	6/12/2019	20	126
	12/10/2019	ND<10	61
	6/25/2020	ND<10	61
	12/22/2020	22.6	150

Rank Sum = 1235
Rank Mean = 102.917

GWC-12A	6/23/2015	ND<10	61
	12/8/2015	ND<10	61
	6/15/2016	ND<10	61
	12/8/2016	ND<10	61
	6/15/2017	ND<10	61
	12/14/2017	ND<10	61
	6/20/2018	ND<10	61
	12/20/2018	ND<10	61
	6/12/2019	ND<10	61
	12/10/2019	ND<10	61
	6/25/2020	ND<10	61
	12/16/2020	ND<10	61

Rank Sum = 732
Rank Mean = 61

GWC-13	6/23/2015	37	244
	12/8/2015	34	229
	6/16/2016	ND<10	61
	12/8/2016	ND<10	61
	6/15/2017	ND<10	61
	12/13/2017	ND<10	61
	6/20/2018	36	242
	12/20/2018	ND<10	61
	6/13/2019	ND<10	61
	12/12/2019	32.7	219
	6/24/2020	ND<10	61
	12/16/2020	ND<10	61

Rank Sum = 1422
Rank Mean = 118.5

GWC-17	6/23/2015	43	272
	12/8/2015	41	265
	6/14/2016	38	249
	6/15/2017	45	276
	12/13/2017	35	234

	6/20/2018	34	230
	12/20/2018	69	312
	6/13/2019	43	273
	12/11/2019	37.1	246
	6/24/2020	30.9	208
	12/16/2020	40.7	262

Rank Sum = 2827
Rank Mean = 257

GWC-18	6/23/2015	220	359
	12/10/2015	140	338
	6/14/2016	250	362
	12/7/2016	180	349
	6/15/2017	180	350
	12/14/2017	150	340
	6/20/2018	280	364
	12/19/2018	140	339
	6/12/2019	230	361
	12/10/2019	181	353
	6/24/2020	168	343
	12/16/2020	160	341

Rank Sum = 4199
Rank Mean = 349.917

GWC-19R	6/23/2015	94	327
	12/10/2015	100	333
	6/16/2016	93	326
	12/7/2016	130	337
	6/15/2017	97	329
	12/14/2017	120	335
	6/20/2018	81	320
	12/19/2018	160	342
	6/12/2019	97	330
	12/10/2019	89.2	324
	6/24/2020	83	322
	12/16/2020	76.5	316

Rank Sum = 3941
Rank Mean = 328.417

GWC-22	6/23/2015	24	161
	12/10/2015	24	162
	6/16/2016	25	168
	12/7/2016	23	155
	6/15/2017	28	195
	12/12/2017	ND<10	61
	6/20/2018	24	163
	12/19/2018	21	135
	6/13/2019	21	136
	12/12/2019	21.5	137
	6/24/2020	22.1	148
	12/18/2020	20.4	131

Rank Sum = 1752
Rank Mean = 146

GWC-23	6/23/2015	ND<10	61
	12/9/2015	ND<10	61
	6/16/2016	ND<10	61

	12/7/2016	ND<10	61
	6/15/2017	ND<10	61
	12/12/2017	ND<10	61
	6/19/2018	ND<10	61
	12/19/2018	ND<10	61
	6/13/2019	ND<10	61
	12/12/2019	ND<10	61
	6/24/2020	ND<10	61
	12/17/2020	ND<10	61

Rank Sum = 732
Rank Mean = 61

GWC-23A	6/23/2015	ND<10	61
	12/9/2015	ND<10	61
	6/15/2016	20	127
	12/7/2016	ND<10	61
	6/15/2017	ND<10	61
	12/12/2017	ND<10	61
	6/19/2018	ND<10	61
	12/19/2018	ND<10	61
	6/13/2019	ND<10	61
	12/12/2019	ND<10	61
	6/24/2020	ND<10	61
	12/17/2020	ND<10	61

Rank Sum = 798
Rank Mean = 66.5

GWC-24	6/23/2015	ND<10	61
	6/14/2016	27	188
	6/15/2017	ND<10	61
	6/20/2018	ND<10	61
	6/12/2019	20	128
	12/10/2019	27.4	189
	6/25/2020	25.8	174

Rank Sum = 862
Rank Mean = 123.143

GWC-6	6/23/2015	ND<10	61
	12/9/2015	ND<10	61
	6/15/2016	ND<10	61
	12/9/2016	ND<10	61
	6/13/2017	ND<10	61
	12/14/2017	ND<10	61
	6/21/2018	37	245
	12/20/2018	ND<10	61
	6/13/2019	ND<10	61
	12/11/2019	ND<10	61
	6/25/2020	ND<10	61
	12/18/2020	ND<10	61

Rank Sum = 916
Rank Mean = 76.3333

GWC-9	6/23/2015	110	334
	12/9/2015	52	290
	6/15/2016	80	318
	12/9/2016	67	310
	6/16/2017	58	300

	12/14/2017	54	294
	6/21/2018	73	314
	12/19/2018	53	293
	6/13/2019	80	319
	12/13/2019	67.9	311
	6/25/2020	78.5	317
	12/18/2020	90	325

Rank Sum = 3725
Rank Mean = 310.417

GWC-16A	6/24/2015	41	266
	12/10/2015	260	363
	6/17/2016	29	199
	12/8/2016	35	235
	6/15/2017	170	344
	12/14/2017	29	200
	6/21/2018	34	231
	12/20/2018	24	164
	6/13/2019	26	180
	12/12/2019	26.7	182
	6/23/2020	23.6	158
	12/17/2020	25.2	171

Rank Sum = 2693
Rank Mean = 224.417

GWC-14	6/24/2015	58	301
	12/10/2015	62	307
	6/15/2016	26	181
	6/21/2018	35	236
	6/12/2019	35	237
	12/11/2019	41.2	268
	6/25/2020	ND<10	61
	12/18/2020	72.2	313

Rank Sum = 1904
Rank Mean = 238

GWC-14A	6/24/2015	210	357
	12/10/2015	200	355
	6/16/2016	200	356
	12/8/2016	220	360
	6/13/2017	210	358
	12/13/2017	180	351
	6/21/2018	190	354
	12/19/2018	180	352
	6/12/2019	170	345
	12/11/2019	170	346
	6/24/2020	171	347
	12/16/2020	171	348

Rank Sum = 4229
Rank Mean = 352.417

GWC-15	6/24/2015	87	323
	12/9/2015	94	328
	6/16/2016	61	306
	12/8/2016	60	304
	6/14/2017	120	336
	12/14/2017	99	332

	6/20/2018	98	331
	12/19/2018	58	302
	6/11/2019	60	305
	12/10/2019	42.3	271
	6/25/2020	62.7	308
	12/17/2020	54.7	296
Rank Sum = 3742			
Rank Mean = 311.833			
GWC-8	6/24/2015	20	129
	12/10/2015	ND<10	61
	6/16/2016	22	144
	12/9/2016	22	145
	12/13/2017	23	156
	6/21/2018	ND<10	61
	6/13/2019	30	205
	12/12/2019	28.6	196
	6/24/2020	52.4	292
	12/17/2020	33	223
Rank Sum = 1612			
Rank Mean = 161.2			
GWC-8A	6/24/2015	50	287
	12/10/2015	41	267
	6/16/2016	40	259
	12/9/2016	55	297
	6/14/2017	66	309
	12/13/2017	42	270
	6/21/2018	51	288
	12/20/2018	55	298
	6/13/2019	33	224
	12/12/2019	56	299
	6/24/2020	43.9	275
	12/16/2020	46.8	281
Rank Sum = 3354			
Rank Mean = 279.5			
GWC-2	6/25/2015	ND<10	61
	12/10/2015	ND<10	61
	6/15/2016	ND<10	61
	12/9/2016	ND<10	61
	6/16/2017	ND<10	61
	12/14/2017	ND<10	61
	6/21/2018	ND<10	61
	12/20/2018	ND<10	61
	6/13/2019	ND<10	61
	12/11/2019	ND<10	61
	6/23/2020	27.5	190
	12/17/2020	ND<10	61
Rank Sum = 861			
Rank Mean = 71.75			
GWC-3	6/25/2015	ND<10	61
	12/10/2015	ND<10	61
	6/15/2016	ND<10	61
	6/21/2018	ND<10	61
	12/18/2018	ND<10	61

	6/12/2019	ND<10	61
	12/11/2019	ND<10	61
	6/25/2020	ND<10	61
	12/17/2020	ND<10	61
Rank Sum = 549			
Rank Mean = 61			
GWC-3A	6/25/2015	39	254
	12/10/2015	40	260
	6/15/2016	38	250
	12/9/2016	43	274
	6/16/2017	40	261
	12/13/2017	38	251
	6/21/2018	39	255
	12/18/2018	38	252
	6/12/2019	46	277
	12/11/2019	40.7	263
	6/25/2020	37.1	247
	12/17/2020	31.6	212
Rank Sum = 3056			
Rank Mean = 254.667			
GWC-4	6/25/2015	24	165
	12/10/2015	23	157
	6/17/2016	24	166
	12/8/2016	25	169
	6/21/2018	20	130
	6/24/2020	25.6	173
	12/18/2020	31.5	211
Rank Sum = 1171			
Rank Mean = 167.286			
GWC-4A	6/25/2015	22	146
	12/10/2015	39	256
	6/17/2016	ND<10	61
	12/8/2016	59	303
	6/14/2017	33	225
	12/13/2017	81	321
	6/21/2018	22	147
	12/18/2018	25	170
	6/12/2019	74	315
	12/12/2019	ND<10	61
	6/24/2020	29.9	202
	12/18/2020	30.5	207
Rank Sum = 2414			
Rank Mean = 201.167			
GWC-5	6/25/2015	ND<10	61
	12/8/2015	ND<10	61
	6/15/2016	ND<10	61
	12/9/2016	ND<10	61
	6/13/2017	ND<10	61
	12/13/2017	ND<10	61
	6/21/2018	ND<10	61
	12/19/2018	ND<10	61
	6/13/2019	ND<10	61
	12/11/2019	ND<10	61

	6/24/2020	ND<10	61
	12/18/2020	ND<10	61

Rank Sum = 732
Rank Mean = 61

GWC-7	6/25/2015	54	295
	12/8/2015	47	282
	6/16/2016	46	278
	12/9/2016	46	279
	6/13/2017	52	291
	12/13/2017	46	280
	6/20/2018	49	285
	12/19/2018	51	289
	6/13/2019	48	284
	12/12/2019	49.9	286
	6/25/2020	36.4	243
	12/18/2020	38.8	253

Rank Sum = 3345
Rank Mean = 278.75

Calculation Results:

Kruskal-Wallis H Statistic = 295.185
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 306.441
95% Confidence comparison value is 43.773 at 30 degrees of freedom
295.185 > 43.773 indicating a significant group difference at 5% significance level
306.441 > 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 171

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	224.5	53.5	86.5436
GWA-3	68.5	-102.5	86.5436
GWC-10	109.333	-61.6667	86.5436
GWC-10A	212	41	86.5436
GWC-11	179.25	8.25	86.5436
GWC-12	102.917	-68.0833	86.5436
GWC-12A	61	-110	86.5436
GWC-13	118.5	-52.5	86.5436
GWC-17	257	86	89.1276
GWC-18	**349.917**	**178.917**	**86.5436**
GWC-19R	**328.417**	**157.417**	**86.5436**
GWC-22	146	-25	86.5436
GWC-23	61	-110	86.5436
GWC-23A	66.5	-104.5	86.5436
GWC-24	123.143	-47.8571	105.149
GWC-6	76.3333	-94.6667	86.5436
GWC-9	**310.417**	**139.417**	**86.5436**
GWC-16A	224.417	53.4167	86.5436
GWC-14	238	67	99.932
GWC-14A	**352.417**	**181.417**	**86.5436**
GWC-15	**311.833**	**140.833**	**86.5436**
GWC-8	161.2	-9.8	92.1327
GWC-8A	**279.5**	**108.5**	**86.5436**
GWC-2	71.75	-99.25	86.5436

GWC-3	61	-110	95.6776
GWC-3A	254.667	83.6667	86.5436
GWC-4	167.286	-3.71429	105.149
GWC-4A	201.167	30.1667	86.5436
GWC-5	61	-110	86.5436
GWC-7	**278.75**	**107.75**	**86.5436**

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 171

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	224.5	53.5	114.962
GWA-3	68.5	-102.5	114.962
GWC-10	109.333	-61.6667	114.962
GWC-10A	212	41	114.962
GWC-11	179.25	8.25	114.962
GWC-12	102.917	-68.0833	114.962
GWC-12A	61	-110	114.962
GWC-13	118.5	-52.5	114.962
GWC-17	257	86	118.394
GWC-18	**349.917**	**178.917**	**114.962**
GWC-19R	**328.417**	**157.417**	**114.962**
GWC-22	146	-25	114.962
GWC-23	61	-110	114.962
GWC-23A	66.5	-104.5	114.962
GWC-24	123.143	-47.8571	139.677
GWC-6	76.3333	-94.6667	114.962
GWC-9	**310.417**	**139.417**	**114.962**
GWC-16A	224.417	53.4167	114.962
GWC-14	238	67	132.747
GWC-14A	**352.417**	**181.417**	**114.962**
GWC-15	**311.833**	**140.833**	**114.962**
GWC-8	161.2	-9.8	122.386
GWC-8A	279.5	108.5	114.962
GWC-2	71.75	-99.25	114.962
GWC-3	61	-110	127.095
GWC-3A	254.667	83.6667	114.962
GWC-4	167.286	-3.71429	139.677
GWC-4A	201.167	30.1667	114.962
GWC-5	61	-110	114.962
GWC-7	278.75	107.75	114.962

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	6/24/2015	ND<5	180
	12/9/2015	ND<5	180
	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/14/2017	ND<5	180
	12/12/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/11/2019	ND<5	180
	12/10/2019	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWA-2	6/25/2015	ND<5	180
	12/8/2015	ND<5	180
	6/14/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/12/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	ND<5	180
	12/12/2019	ND<5	180
	6/23/2020	ND<5	180
	12/18/2020	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			

Background Rank Sum = 4320
Background Rank Mean = 180

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/14/2016	ND<5	180
	12/7/2016	ND<5	180
	6/12/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/10/2019	ND<5	180
	12/9/2019	ND<5	180
	6/23/2020	ND<5	180

	12/17/2020	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWA-3	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/14/2016	ND<5	180
	12/9/2016	ND<5	180
	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/19/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/23/2020	ND<5	180
	12/17/2020	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-10	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/11/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-10A	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/11/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-11	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180

	6/13/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-12	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/25/2020	ND<5	180
	12/22/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-12A	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-13	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/16/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-17	6/23/2015	ND<5	180
	12/8/2015	ND<5	180
	6/14/2016	ND<5	180
	6/15/2017	ND<5	180
	12/13/2017	ND<5	180

	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 1980
Rank Mean = 180

GWC-18	6/23/2015	ND<5	180
	12/10/2015	ND<5	180
	6/14/2016	ND<5	180
	12/7/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-19R	6/23/2015	ND<5	180
	12/10/2015	ND<5	180
	6/16/2016	ND<5	180
	12/7/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-22	6/23/2015	ND<5	180
	12/10/2015	ND<5	180
	6/16/2016	ND<5	180
	12/7/2016	ND<5	180
	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-23	6/23/2015	ND<5	180
	12/9/2015	ND<5	180
	6/16/2016	ND<5	180

	12/7/2016	11	360
	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/19/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 2340
Rank Mean = 195

GWC-23A	6/23/2015	ND<5	180
	12/9/2015	ND<5	180
	6/15/2016	ND<5	180
	12/7/2016	ND<5	180
	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/19/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-24	6/23/2015	ND<5	180
	6/14/2016	ND<5	180
	6/15/2017	ND<5	180
	6/20/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/25/2020	ND<5	180

Rank Sum = 1260
Rank Mean = 180

GWC-6	6/23/2015	ND<5	180
	12/9/2015	ND<5	180
	6/15/2016	12	362
	12/9/2016	ND<5	180
	6/13/2017	ND<5	180
	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 2342
Rank Mean = 195.167

GWC-9	6/23/2015	ND<5	180
	12/9/2015	ND<5	180
	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180

	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-16A	6/24/2015	ND<5	180
	12/10/2015	ND<5	180
	6/17/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/23/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-14	6/24/2015	ND<5	180
	12/10/2015	ND<5	180
	6/15/2016	ND<5	180
	6/21/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 1440
Rank Mean = 180

GWC-14A	6/24/2015	ND<5	180
	12/10/2015	ND<5	180
	6/16/2016	ND<5	180
	12/8/2016	ND<5	180
	6/13/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	12/19/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-15	6/24/2015	ND<5	180
	12/9/2015	ND<5	180
	6/16/2016	ND<5	180
	12/8/2016	ND<5	180
	6/14/2017	ND<5	180
	12/14/2017	ND<5	180

	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/11/2019	ND<5	180
	12/10/2019	ND<5	180
	6/25/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-8	6/24/2015	ND<5	180
	12/10/2015	ND<5	180
	6/16/2016	ND<5	180
	12/9/2016	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 1800
Rank Mean = 180

GWC-8A	6/24/2015	ND<5	180
	12/10/2015	ND<5	180
	6/16/2016	ND<5	180
	12/9/2016	ND<5	180
	6/14/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-2	6/25/2015	ND<5	180
	12/10/2015	ND<5	180
	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180
	6/23/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-3	6/25/2015	ND<5	180
	12/10/2015	ND<5	180
	6/15/2016	ND<5	180
	6/21/2018	ND<5	180
	12/18/2018	ND<5	180

	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 1620
Rank Mean = 180

GWC-3A	6/25/2015	ND<5	180
	12/10/2015	ND<5	180
	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/17/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-4	6/25/2015	ND<5	180
	12/10/2015	ND<5	180
	6/17/2016	ND<5	180
	12/8/2016	ND<5	180
	6/21/2018	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 1260
Rank Mean = 180

GWC-4A	6/25/2015	ND<5	180
	12/10/2015	11	361
	6/17/2016	ND<5	180
	12/8/2016	ND<5	180
	6/14/2017	ND<5	180
	12/13/2017	19	363
	6/21/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	26	364
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 2708
Rank Mean = 225.667

GWC-5	6/25/2015	ND<5	180
	12/8/2015	ND<5	180
	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/13/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180

	6/24/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-7	6/25/2015	ND<5	180
	12/8/2015	ND<5	180
	6/16/2016	ND<5	180
	12/9/2016	ND<5	180
	6/13/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180

Rank Sum = 2160
Rank Mean = 180

Calculation Results:

Kruskal-Wallis H Statistic = 2.54801
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 62.6885
95% Confidence comparison value is 43.773 at 30 degrees of freedom
2.54801 < 43.773 indicating no significant group difference at 5% significance level
62.6885 > 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 180

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	180	0	86.5436
GWA-3	180	0	86.5436
GWC-10	180	0	86.5436
GWC-10A	180	0	86.5436
GWC-11	180	0	86.5436
GWC-12	180	0	86.5436
GWC-12A	180	0	86.5436
GWC-13	180	0	86.5436
GWC-17	180	0	89.1276
GWC-18	180	0	86.5436
GWC-19R	180	0	86.5436
GWC-22	180	0	86.5436
GWC-23	195	15	86.5436
GWC-23A	180	0	86.5436
GWC-24	180	0	105.149
GWC-6	195.167	15.1667	86.5436
GWC-9	180	0	86.5436
GWC-16A	180	0	86.5436
GWC-14	180	0	99.932
GWC-14A	180	0	86.5436
GWC-15	180	0	86.5436
GWC-8	180	0	92.1327
GWC-8A	180	0	86.5436
GWC-2	180	0	86.5436

GWC-3	180	0	95.6776
GWC-3A	180	0	86.5436
GWC-4	180	0	105.149
GWC-4A	225.667	45.6667	86.5436
GWC-5	180	0	86.5436
GWC-7	180	0	86.5436

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 180

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	180	0	114.962
GWA-3	180	0	114.962
GWC-10	180	0	114.962
GWC-10A	180	0	114.962
GWC-11	180	0	114.962
GWC-12	180	0	114.962
GWC-12A	180	0	114.962
GWC-13	180	0	114.962
GWC-17	180	0	118.394
GWC-18	180	0	114.962
GWC-19R	180	0	114.962
GWC-22	180	0	114.962
GWC-23	195	15	114.962
GWC-23A	180	0	114.962
GWC-24	180	0	139.677
GWC-6	195.167	15.1667	114.962
GWC-9	180	0	114.962
GWC-16A	180	0	114.962
GWC-14	180	0	132.747
GWC-14A	180	0	114.962
GWC-15	180	0	114.962
GWC-8	180	0	122.386
GWC-8A	180	0	114.962
GWC-2	180	0	114.962
GWC-3	180	0	127.095
GWC-3A	180	0	114.962
GWC-4	180	0	139.677
GWC-4A	225.667	45.6667	114.962
GWC-5	180	0	114.962
GWC-7	180	0	114.962

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	6/24/2015	ND<20	170
	12/9/2015	ND<20	170
	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/14/2017	ND<20	170
	12/12/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/11/2019	ND<20	170
	12/10/2019	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWA-2	6/25/2015	ND<20	170
	12/8/2015	ND<20	170
	6/14/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/12/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/12/2019	ND<20	170
	6/23/2020	ND<20	170
	12/18/2020	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			

Background Rank Sum = 4080
Background Rank Mean = 170

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/14/2016	ND<20	170
	12/7/2016	ND<20	170
	6/12/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/10/2019	ND<20	170
	12/9/2019	ND<20	170
	6/23/2020	ND<20	170

	12/17/2020	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWA-3	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/14/2016	ND<20	170
	12/9/2016	ND<20	170
	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/19/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/11/2019	ND<20	170
	6/23/2020	ND<20	170
	12/17/2020	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-10	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/11/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-10A	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/11/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-11	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170

	6/13/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-12	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/25/2020	ND<20	170
	12/22/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-12A	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-13	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/16/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-17	6/23/2015	ND<20	170
	12/8/2015	ND<20	170
	6/14/2016	ND<20	170
	6/15/2017	ND<20	170
	12/13/2017	ND<20	170

	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170

Rank Sum = 1870
Rank Mean = 170

GWC-18	6/23/2015	ND<20	170
	12/10/2015	ND<20	170
	6/14/2016	ND<20	170
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-19R	6/23/2015	ND<20	170
	12/10/2015	ND<20	170
	6/16/2016	47	342
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170

Rank Sum = 2212
Rank Mean = 184.333

GWC-22	6/23/2015	ND<20	170
	12/10/2015	ND<20	170
	6/16/2016	ND<20	170
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-23	6/23/2015	ND<20	170
	12/9/2015	ND<20	170
	6/16/2016	ND<20	170

	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/19/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-23A	6/23/2015	ND<20	170
	12/9/2015	ND<20	170
	6/15/2016	ND<20	170
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/19/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-24	6/23/2015	ND<20	170
	6/14/2016	ND<20	170
	6/15/2017	ND<20	170
	6/20/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/25/2020	ND<20	170

Rank Sum = 1190
Rank Mean = 170

GWC-6	6/23/2015	ND<20	170
	12/9/2015	ND<20	170
	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/13/2017	ND<20	170
	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170
	6/25/2020	ND<20	170
	12/18/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-9	6/23/2015	ND<20	170
	12/9/2015	ND<20	170
	6/15/2016	50	344
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170

	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/18/2020	ND<20	170

Rank Sum = 2214
Rank Mean = 184.5

GWC-16A	6/24/2015	ND<20	170
	12/10/2015	100	352
	6/17/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	81	349
	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/23/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 2401
Rank Mean = 200.083

GWC-14	6/24/2015	54	346
	12/10/2015	49	343
	6/15/2016	88	350
	6/21/2018	42	340
	6/12/2019	57	348
	12/11/2019	50.3	345
	6/25/2020	95.1	351
	12/18/2020	55.5	347

Rank Sum = 2770
Rank Mean = 346.25

GWC-14A	6/24/2015	620	364
	12/10/2015	520	363
	6/16/2016	490	362
	12/8/2016	380	361
	6/13/2017	370	360
	12/13/2017	280	354
	6/21/2018	310	358
	12/19/2018	290	355
	6/12/2019	330	359
	12/11/2019	228	353
	6/24/2020	301	357
	12/16/2020	298	356

Rank Sum = 4302
Rank Mean = 358.5

GWC-15	6/24/2015	ND<20	170
	12/9/2015	ND<20	170
	6/16/2016	ND<20	170
	12/8/2016	ND<20	170
	6/14/2017	ND<20	170
	12/14/2017	ND<20	170

	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/11/2019	ND<20	170
	12/10/2019	ND<20	170
	6/25/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-8	6/24/2015	ND<20	170
	12/10/2015	ND<20	170
	6/16/2016	ND<20	170
	12/9/2016	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 1700
Rank Mean = 170

GWC-8A	6/24/2015	ND<20	170
	12/10/2015	ND<20	170
	6/16/2016	ND<20	170
	12/9/2016	44	341
	6/14/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170

Rank Sum = 2211
Rank Mean = 184.25

GWC-2	6/25/2015	ND<20	170
	12/10/2015	ND<20	170
	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170
	6/23/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-3	6/25/2015	ND<20	170
	12/10/2015	ND<20	170
	6/15/2016	ND<20	170
	6/21/2018	ND<20	170
	12/18/2018	ND<20	170

	6/12/2019	ND<20	170
	12/11/2019	ND<20	170
	6/25/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 1530
Rank Mean = 170

GWC-3A	6/25/2015	ND<20	170
	12/10/2015	ND<20	170
	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/11/2019	ND<20	170
	6/25/2020	ND<20	170
	12/17/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-4	6/25/2015	ND<20	170
	12/10/2015	ND<20	170
	6/17/2016	ND<20	170
	12/8/2016	ND<20	170
	6/21/2018	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170

Rank Sum = 1190
Rank Mean = 170

GWC-4A	6/25/2015	ND<20	170
	12/10/2015	ND<20	170
	6/17/2016	ND<20	170
	12/8/2016	ND<20	170
	6/14/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-5	6/25/2015	ND<20	170
	12/8/2015	ND<20	170
	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/13/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170

	6/24/2020	ND<20	170
	12/18/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-7	6/25/2015	ND<20	170
	12/8/2015	ND<20	170
	6/16/2016	ND<20	170
	12/9/2016	ND<20	170
	6/13/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/25/2020	ND<20	170
	12/18/2020	ND<20	170

Rank Sum = 2040
Rank Mean = 170

Calculation Results:

Kruskal-Wallis H Statistic = 57.4719
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 298.994
95% Confidence comparison value is 43.773 at 30 degrees of freedom
57.4719 > 43.773 indicating a significant group difference at 5% significance level
298.994 > 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 170

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	170	0	86.5436
GWA-3	170	0	86.5436
GWC-10	170	0	86.5436
GWC-10A	170	0	86.5436
GWC-11	170	0	86.5436
GWC-12	170	0	86.5436
GWC-12A	170	0	86.5436
GWC-13	170	0	86.5436
GWC-17	170	0	89.1276
GWC-18	170	0	86.5436
GWC-19R	184.333	14.3333	86.5436
GWC-22	170	0	86.5436
GWC-23	170	0	86.5436
GWC-23A	170	0	86.5436
GWC-24	170	0	105.149
GWC-6	170	0	86.5436
GWC-9	184.5	14.5	86.5436
GWC-16A	200.083	30.0833	86.5436
GWC-14	**346.25**	**176.25**	**99.932**
GWC-14A	**358.5**	**188.5**	**86.5436**
GWC-15	170	0	86.5436
GWC-8	170	0	92.1327
GWC-8A	184.25	14.25	86.5436
GWC-2	170	0	86.5436

GWC-3	170	0	95.6776
GWC-3A	170	0	86.5436
GWC-4	170	0	105.149
GWC-4A	170	0	86.5436
GWC-5	170	0	86.5436
GWC-7	170	0	86.5436

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 170

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	170	0	114.962
GWA-3	170	0	114.962
GWC-10	170	0	114.962
GWC-10A	170	0	114.962
GWC-11	170	0	114.962
GWC-12	170	0	114.962
GWC-12A	170	0	114.962
GWC-13	170	0	114.962
GWC-17	170	0	118.394
GWC-18	170	0	114.962
GWC-19R	184.333	14.3333	114.962
GWC-22	170	0	114.962
GWC-23	170	0	114.962
GWC-23A	170	0	114.962
GWC-24	170	0	139.677
GWC-6	170	0	114.962
GWC-9	184.5	14.5	114.962
GWC-16A	200.083	30.0833	114.962
GWC-14	**346.25**	**176.25**	**132.747**
GWC-14A	**358.5**	**188.5**	**114.962**
GWC-15	170	0	114.962
GWC-8	170	0	122.386
GWC-8A	184.25	14.25	114.962
GWC-2	170	0	114.962
GWC-3	170	0	127.095
GWC-3A	170	0	114.962
GWC-4	170	0	139.677
GWC-4A	170	0	114.962
GWC-5	170	0	114.962
GWC-7	170	0	114.962

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	6/24/2015	ND<10	174
	12/9/2015	ND<10	174
	6/15/2016	ND<10	174
	12/8/2016	ND<10	174
	6/14/2017	ND<10	174
	12/12/2017	ND<10	174
	6/20/2018	ND<10	174
	12/18/2018	ND<10	174
	6/11/2019	ND<10	174
	12/10/2019	ND<10	174
	6/24/2020	ND<10	174
	12/18/2020	ND<10	174
Rank Sum = 2088			
Rank Mean = 174			
GWA-2	6/25/2015	ND<10	174
	12/8/2015	ND<10	174
	6/14/2016	ND<10	174
	12/9/2016	ND<10	174
	6/16/2017	ND<10	174
	12/12/2017	ND<10	174
	6/20/2018	ND<10	174
	12/18/2018	ND<10	174
	6/12/2019	ND<10	174
	12/12/2019	ND<10	174
	6/23/2020	ND<10	174
	12/18/2020	ND<10	174
Rank Sum = 2088			
Rank Mean = 174			

Background Rank Sum = 4176
Background Rank Mean = 174

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/14/2016	ND<10	174
	12/7/2016	ND<10	174
	6/12/2017	ND<10	174
	12/13/2017	ND<10	174
	6/20/2018	ND<10	174
	12/18/2018	ND<10	174
	6/10/2019	ND<10	174
	12/9/2019	ND<10	174
	6/23/2020	ND<10	174

	12/17/2020	ND<10	174
Rank Sum = 2088			
Rank Mean = 174			
GWA-3	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/14/2016	ND<10	174
	12/9/2016	ND<10	174
	6/15/2017	ND<10	174
	12/12/2017	ND<10	174
	6/19/2018	ND<10	174
	12/18/2018	ND<10	174
	6/12/2019	ND<10	174
	12/11/2019	ND<10	174
	6/23/2020	ND<10	174
	12/17/2020	ND<10	174
Rank Sum = 2088			
Rank Mean = 174			
GWC-10	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/15/2016	ND<10	174
	12/9/2016	ND<10	174
	6/16/2017	ND<10	174
	12/13/2017	ND<10	174
	6/20/2018	ND<10	174
	12/18/2018	ND<10	174
	6/11/2019	ND<10	174
	12/13/2019	ND<10	174
	6/25/2020	ND<10	174
	12/16/2020	ND<10	174
Rank Sum = 2088			
Rank Mean = 174			
GWC-10A	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/15/2016	ND<10	174
	12/9/2016	ND<10	174
	6/16/2017	ND<10	174
	12/13/2017	ND<10	174
	6/20/2018	ND<10	174
	12/18/2018	ND<10	174
	6/11/2019	ND<10	174
	12/13/2019	ND<10	174
	6/25/2020	ND<10	174
	12/16/2020	ND<10	174
Rank Sum = 2088			
Rank Mean = 174			
GWC-11	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/15/2016	ND<10	174
	12/8/2016	ND<10	174
	6/15/2017	ND<10	174
	12/14/2017	ND<10	174
	6/20/2018	ND<10	174
	12/20/2018	ND<10	174

	6/13/2019	ND<10	174
	12/13/2019	ND<10	174
	6/25/2020	ND<10	174
	12/16/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-12	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/15/2016	ND<10	174
	12/8/2016	ND<10	174
	6/15/2017	ND<10	174
	12/14/2017	ND<10	174
	6/20/2018	ND<10	174
	12/20/2018	ND<10	174
	6/12/2019	ND<10	174
	12/10/2019	ND<10	174
	6/25/2020	ND<10	174
	12/22/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-12A	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/15/2016	ND<10	174
	12/8/2016	ND<10	174
	6/15/2017	ND<10	174
	12/14/2017	ND<10	174
	6/20/2018	ND<10	174
	12/20/2018	ND<10	174
	6/12/2019	ND<10	174
	12/10/2019	ND<10	174
	6/25/2020	ND<10	174
	12/16/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-13	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/16/2016	ND<10	174
	12/8/2016	ND<10	174
	6/15/2017	ND<10	174
	12/13/2017	ND<10	174
	6/20/2018	ND<10	174
	12/20/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/24/2020	ND<10	174
	12/16/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-17	6/23/2015	ND<10	174
	12/8/2015	ND<10	174
	6/14/2016	ND<10	174
	6/15/2017	ND<10	174
	12/13/2017	ND<10	174

	6/20/2018	ND<10	174
	12/20/2018	ND<10	174
	6/13/2019	ND<10	174
	12/11/2019	ND<10	174
	6/24/2020	ND<10	174
	12/16/2020	ND<10	174

Rank Sum = 1914
Rank Mean = 174

GWC-18	6/23/2015	47	363
	12/10/2015	ND<10	174
	6/14/2016	ND<10	174
	12/7/2016	64	364
	6/15/2017	34	361
	12/14/2017	ND<10	174
	6/20/2018	ND<10	174
	12/19/2018	ND<10	174
	6/12/2019	24	354
	12/10/2019	29.8	360
	6/24/2020	ND<10	174
	12/16/2020	ND<10	174

Rank Sum = 3020
Rank Mean = 251.667

GWC-19R	6/23/2015	ND<10	174
	12/10/2015	ND<10	174
	6/16/2016	ND<10	174
	12/7/2016	ND<10	174
	6/15/2017	ND<10	174
	12/14/2017	ND<10	174
	6/20/2018	ND<10	174
	12/19/2018	ND<10	174
	6/12/2019	ND<10	174
	12/10/2019	ND<10	174
	6/24/2020	ND<10	174
	12/16/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-22	6/23/2015	ND<10	174
	12/10/2015	ND<10	174
	6/16/2016	ND<10	174
	12/7/2016	ND<10	174
	6/15/2017	ND<10	174
	12/12/2017	ND<10	174
	6/20/2018	ND<10	174
	12/19/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/24/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-23	6/23/2015	ND<10	174
	12/9/2015	ND<10	174
	6/16/2016	ND<10	174

	12/7/2016	ND<10	174
	6/15/2017	ND<10	174
	12/12/2017	ND<10	174
	6/19/2018	ND<10	174
	12/19/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/24/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-23A	6/23/2015	ND<10	174
	12/9/2015	ND<10	174
	6/15/2016	ND<10	174
	12/7/2016	ND<10	174
	6/15/2017	ND<10	174
	12/12/2017	ND<10	174
	6/19/2018	ND<10	174
	12/19/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/24/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-24	6/23/2015	ND<10	174
	6/14/2016	ND<10	174
	6/15/2017	ND<10	174
	6/20/2018	ND<10	174
	6/12/2019	ND<10	174
	12/10/2019	ND<10	174
	6/25/2020	ND<10	174

Rank Sum = 1218
Rank Mean = 174

GWC-6	6/23/2015	ND<10	174
	12/9/2015	ND<10	174
	6/15/2016	ND<10	174
	12/9/2016	ND<10	174
	6/13/2017	ND<10	174
	12/14/2017	ND<10	174
	6/21/2018	ND<10	174
	12/20/2018	ND<10	174
	6/13/2019	ND<10	174
	12/11/2019	ND<10	174
	6/25/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-9	6/23/2015	ND<10	174
	12/9/2015	ND<10	174
	6/15/2016	ND<10	174
	12/9/2016	ND<10	174
	6/16/2017	ND<10	174

	12/14/2017	ND<10	174
	6/21/2018	ND<10	174
	12/19/2018	ND<10	174
	6/13/2019	ND<10	174
	12/13/2019	ND<10	174
	6/25/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-16A	6/24/2015	ND<10	174
	12/10/2015	ND<10	174
	6/17/2016	ND<10	174
	12/8/2016	ND<10	174
	6/15/2017	ND<10	174
	12/14/2017	ND<10	174
	6/21/2018	ND<10	174
	12/20/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/23/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-14	6/24/2015	ND<10	174
	12/10/2015	ND<10	174
	6/15/2016	ND<10	174
	6/21/2018	ND<10	174
	6/12/2019	ND<10	174
	12/11/2019	ND<10	174
	6/25/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 1392
Rank Mean = 174

GWC-14A	6/24/2015	36	362
	12/10/2015	28	358
	6/16/2016	28	359
	12/8/2016	27	357
	6/13/2017	24	355
	12/13/2017	21	349
	6/21/2018	24	356
	12/19/2018	20	348
	6/12/2019	21	350
	12/11/2019	ND<10	174
	6/24/2020	22.2	352
	12/16/2020	23.6	353

Rank Sum = 4073
Rank Mean = 339.417

GWC-15	6/24/2015	ND<10	174
	12/9/2015	ND<10	174
	6/16/2016	ND<10	174
	12/8/2016	ND<10	174
	6/14/2017	ND<10	174
	12/14/2017	ND<10	174

	6/20/2018	ND<10	174
	12/19/2018	ND<10	174
	6/11/2019	ND<10	174
	12/10/2019	ND<10	174
	6/25/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-8	6/24/2015	ND<10	174
	12/10/2015	ND<10	174
	6/16/2016	ND<10	174
	12/9/2016	ND<10	174
	12/13/2017	ND<10	174
	6/21/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/24/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 1740
Rank Mean = 174

GWC-8A	6/24/2015	ND<10	174
	12/10/2015	ND<10	174
	6/16/2016	ND<10	174
	12/9/2016	ND<10	174
	6/14/2017	ND<10	174
	12/13/2017	ND<10	174
	6/21/2018	ND<10	174
	12/20/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/24/2020	ND<10	174
	12/16/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-2	6/25/2015	ND<10	174
	12/10/2015	ND<10	174
	6/15/2016	ND<10	174
	12/9/2016	ND<10	174
	6/16/2017	ND<10	174
	12/14/2017	ND<10	174
	6/21/2018	ND<10	174
	12/20/2018	ND<10	174
	6/13/2019	ND<10	174
	12/11/2019	ND<10	174
	6/23/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-3	6/25/2015	ND<10	174
	12/10/2015	ND<10	174
	6/15/2016	ND<10	174
	6/21/2018	ND<10	174
	12/18/2018	ND<10	174

	6/12/2019	ND<10	174
	12/11/2019	ND<10	174
	6/25/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 1566
Rank Mean = 174

GWC-3A	6/25/2015	ND<10	174
	12/10/2015	ND<10	174
	6/15/2016	ND<10	174
	12/9/2016	ND<10	174
	6/16/2017	ND<10	174
	12/13/2017	ND<10	174
	6/21/2018	ND<10	174
	12/18/2018	ND<10	174
	6/12/2019	ND<10	174
	12/11/2019	ND<10	174
	6/25/2020	ND<10	174
	12/17/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-4	6/25/2015	ND<10	174
	12/10/2015	ND<10	174
	6/17/2016	ND<10	174
	12/8/2016	ND<10	174
	6/21/2018	ND<10	174
	6/24/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 1218
Rank Mean = 174

GWC-4A	6/25/2015	ND<10	174
	12/10/2015	ND<10	174
	6/17/2016	ND<10	174
	12/8/2016	ND<10	174
	6/14/2017	ND<10	174
	12/13/2017	ND<10	174
	6/21/2018	ND<10	174
	12/18/2018	ND<10	174
	6/12/2019	22	351
	12/12/2019	ND<10	174
	6/24/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 2265
Rank Mean = 188.75

GWC-5	6/25/2015	ND<10	174
	12/8/2015	ND<10	174
	6/15/2016	ND<10	174
	12/9/2016	ND<10	174
	6/13/2017	ND<10	174
	12/13/2017	ND<10	174
	6/21/2018	ND<10	174
	12/19/2018	ND<10	174
	6/13/2019	ND<10	174
	12/11/2019	ND<10	174

	6/24/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

GWC-7	6/25/2015	ND<10	174
	12/8/2015	ND<10	174
	6/16/2016	ND<10	174
	12/9/2016	ND<10	174
	6/13/2017	ND<10	174
	12/13/2017	ND<10	174
	6/20/2018	ND<10	174
	12/19/2018	ND<10	174
	6/13/2019	ND<10	174
	12/12/2019	ND<10	174
	6/25/2020	ND<10	174
	12/18/2020	ND<10	174

Rank Sum = 2088
Rank Mean = 174

Calculation Results:

Kruskal-Wallis H Statistic = 34.0553
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 254.774
95% Confidence comparison value is 43.773 at 30 degrees of freedom
34.0553 < 43.773 indicating no significant group difference at 5% significance level
254.774 > 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 174

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	174	0	86.5436
GWA-3	174	0	86.5436
GWC-10	174	0	86.5436
GWC-10A	174	0	86.5436
GWC-11	174	0	86.5436
GWC-12	174	0	86.5436
GWC-12A	174	0	86.5436
GWC-13	174	0	86.5436
GWC-17	174	0	89.1276
GWC-18	251.667	77.6667	86.5436
GWC-19R	174	0	86.5436
GWC-22	174	0	86.5436
GWC-23	174	0	86.5436
GWC-23A	174	0	86.5436
GWC-24	174	0	105.149
GWC-6	174	0	86.5436
GWC-9	174	0	86.5436
GWC-16A	174	0	86.5436
GWC-14	174	0	99.932
GWC-14A	**339.417**	**165.417**	**86.5436**
GWC-15	174	0	86.5436
GWC-8	174	0	92.1327
GWC-8A	174	0	86.5436
GWC-2	174	0	86.5436

GWC-3	174	0	95.6776
GWC-3A	174	0	86.5436
GWC-4	174	0	105.149
GWC-4A	188.75	14.75	86.5436
GWC-5	174	0	86.5436
GWC-7	174	0	86.5436

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 174

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	174	0	114.962
GWA-3	174	0	114.962
GWC-10	174	0	114.962
GWC-10A	174	0	114.962
GWC-11	174	0	114.962
GWC-12	174	0	114.962
GWC-12A	174	0	114.962
GWC-13	174	0	114.962
GWC-17	174	0	118.394
GWC-18	251.667	77.6667	114.962
GWC-19R	174	0	114.962
GWC-22	174	0	114.962
GWC-23	174	0	114.962
GWC-23A	174	0	114.962
GWC-24	174	0	139.677
GWC-6	174	0	114.962
GWC-9	174	0	114.962
GWC-16A	174	0	114.962
GWC-14	174	0	132.747
GWC-14A	**339.417**	**165.417**	**114.962**
GWC-15	174	0	114.962
GWC-8	174	0	122.386
GWC-8A	174	0	114.962
GWC-2	174	0	114.962
GWC-3	174	0	127.095
GWC-3A	174	0	114.962
GWC-4	174	0	139.677
GWC-4A	188.75	14.75	114.962
GWC-5	174	0	114.962
GWC-7	174	0	114.962

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	6/24/2015	45	339
	12/9/2015	31	313
	6/15/2016	31	314
	12/8/2016	20	258
	6/14/2017	23	273
	12/12/2017	38	322
	6/20/2018	48	344
	12/18/2018	44	337
	6/11/2019	42	333
	12/10/2019	30.4	311
	6/24/2020	30.7	312
	12/18/2020	21.1	271
Rank Sum = 3727			
Rank Mean = 310.583			
GWA-2	6/25/2015	ND<10	129
	12/8/2015	ND<10	129
	6/14/2016	20	259
	12/9/2016	ND<10	129
	6/16/2017	ND<10	129
	12/12/2017	ND<10	129
	6/20/2018	ND<10	129
	12/18/2018	ND<10	129
	6/12/2019	30	309
	12/12/2019	25.9	291
	6/23/2020	ND<10	129
	12/18/2020	ND<10	129
Rank Sum = 2020			
Rank Mean = 168.333			

Background Rank Sum = 5747
Background Rank Mean = 239.458

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/23/2015	ND<10	129
	12/8/2015	ND<10	129
	6/14/2016	ND<10	129
	12/7/2016	ND<10	129
	6/12/2017	ND<10	129
	12/13/2017	24	281
	6/20/2018	ND<10	129
	12/18/2018	ND<10	129
	6/10/2019	ND<10	129
	12/9/2019	ND<10	129
	6/23/2020	ND<10	129

	12/17/2020	ND<10	129
Rank Sum = 1700			
Rank Mean = 141.667			
GWA-3	6/23/2015	ND<10	129
	12/8/2015	43	336
	6/14/2016	ND<10	129
	12/9/2016	ND<10	129
	6/15/2017	ND<10	129
	12/12/2017	ND<10	129
	6/19/2018	41	330
	12/18/2018	ND<10	129
	6/12/2019	ND<10	129
	12/11/2019	71.5	357
	6/23/2020	20.3	267
	12/17/2020	ND<10	129
Rank Sum = 2322			
Rank Mean = 193.5			
GWC-10	6/23/2015	ND<10	129
	12/8/2015	26	292
	6/15/2016	ND<10	129
	12/9/2016	23	274
	6/16/2017	ND<10	129
	12/13/2017	28	304
	6/20/2018	41	331
	12/18/2018	22	272
	6/11/2019	24	282
	12/13/2019	86.4	361
	6/25/2020	27.9	303
	12/16/2020	ND<10	129
Rank Sum = 2935			
Rank Mean = 244.583			
GWC-10A	6/23/2015	ND<10	129
	12/8/2015	ND<10	129
	6/15/2016	ND<10	129
	12/9/2016	ND<10	129
	6/16/2017	ND<10	129
	12/13/2017	ND<10	129
	6/20/2018	ND<10	129
	12/18/2018	38	323
	6/11/2019	ND<10	129
	12/13/2019	31.2	315
	6/25/2020	ND<10	129
	12/16/2020	ND<10	129
Rank Sum = 1928			
Rank Mean = 160.667			
GWC-11	6/23/2015	29	307
	12/8/2015	ND<10	129
	6/15/2016	ND<10	129
	12/8/2016	ND<10	129
	6/15/2017	ND<10	129
	12/14/2017	ND<10	129
	6/20/2018	26	293
	12/20/2018	ND<10	129

	6/13/2019	34	318
	12/13/2019	23.3	279
	6/25/2020	40	329
	12/16/2020	ND<10	129

Rank Sum = 2429
Rank Mean = 202.417

GWC-12	6/23/2015	ND<10	129
	12/8/2015	ND<10	129
	6/15/2016	ND<10	129
	12/8/2016	ND<10	129
	6/15/2017	ND<10	129
	12/14/2017	ND<10	129
	6/20/2018	ND<10	129
	12/20/2018	ND<10	129
	6/12/2019	ND<10	129
	12/10/2019	ND<10	129
	6/25/2020	ND<10	129
	12/22/2020	ND<10	129

Rank Sum = 1548
Rank Mean = 129

GWC-12A	6/23/2015	ND<10	129
	12/8/2015	ND<10	129
	6/15/2016	ND<10	129
	12/8/2016	20	260
	6/15/2017	ND<10	129
	12/14/2017	ND<10	129
	6/20/2018	26	294
	12/20/2018	ND<10	129
	6/12/2019	ND<10	129
	12/10/2019	ND<10	129
	6/25/2020	ND<10	129
	12/16/2020	ND<10	129

Rank Sum = 1844
Rank Mean = 153.667

GWC-13	6/23/2015	45	340
	12/8/2015	ND<10	129
	6/16/2016	ND<10	129
	12/8/2016	ND<10	129
	6/15/2017	ND<10	129
	12/13/2017	ND<10	129
	6/20/2018	ND<10	129
	12/20/2018	ND<10	129
	6/13/2019	ND<10	129
	12/12/2019	23.6	280
	6/24/2020	ND<10	129
	12/16/2020	ND<10	129

Rank Sum = 1910
Rank Mean = 159.167

GWC-17	6/23/2015	ND<10	129
	12/8/2015	ND<10	129
	6/14/2016	ND<10	129
	6/15/2017	20	261
	12/13/2017	ND<10	129

	6/20/2018	ND<10	129
	12/20/2018	27	299
	6/13/2019	24	283
	12/11/2019	ND<10	129
	6/24/2020	ND<10	129
	12/16/2020	ND<10	129

Rank Sum = 1875
Rank Mean = 170.455

GWC-18	6/23/2015	ND<10	129
	12/10/2015	ND<10	129
	6/14/2016	ND<10	129
	12/7/2016	49	345
	6/15/2017	21	268
	12/14/2017	29	308
	6/20/2018	ND<10	129
	12/19/2018	26	295
	6/12/2019	ND<10	129
	12/10/2019	38.7	327
	6/24/2020	ND<10	129
	12/16/2020	ND<10	129

Rank Sum = 2446
Rank Mean = 203.833

GWC-19R	6/23/2015	ND<10	129
	12/10/2015	ND<10	129
	6/16/2016	ND<10	129
	12/7/2016	ND<10	129
	6/15/2017	ND<10	129
	12/14/2017	ND<10	129
	6/20/2018	21	269
	12/19/2018	ND<10	129
	6/12/2019	ND<10	129
	12/10/2019	ND<10	129
	6/24/2020	ND<10	129
	12/16/2020	ND<10	129

Rank Sum = 1688
Rank Mean = 140.667

GWC-22	6/23/2015	ND<10	129
	12/10/2015	26	296
	6/16/2016	ND<10	129
	12/7/2016	ND<10	129
	6/15/2017	ND<10	129
	12/12/2017	ND<10	129
	6/20/2018	21	270
	12/19/2018	ND<10	129
	6/13/2019	ND<10	129
	12/12/2019	ND<10	129
	6/24/2020	ND<10	129
	12/18/2020	ND<10	129

Rank Sum = 1856
Rank Mean = 154.667

GWC-23	6/23/2015	ND<10	129
	12/9/2015	ND<10	129
	6/16/2016	ND<10	129

	12/7/2016	ND<10	129
	6/15/2017	ND<10	129
	12/12/2017	ND<10	129
	6/19/2018	ND<10	129
	12/19/2018	ND<10	129
	6/13/2019	ND<10	129
	12/12/2019	ND<10	129
	6/24/2020	ND<10	129
	12/17/2020	ND<10	129

Rank Sum = 1548
Rank Mean = 129

GWC-23A	6/23/2015	ND<10	129
	12/9/2015	ND<10	129
	6/15/2016	ND<10	129
	12/7/2016	ND<10	129
	6/15/2017	ND<10	129
	12/12/2017	ND<10	129
	6/19/2018	ND<10	129
	12/19/2018	ND<10	129
	6/13/2019	ND<10	129
	12/12/2019	31.6	316
	6/24/2020	ND<10	129
	12/17/2020	ND<10	129

Rank Sum = 1735
Rank Mean = 144.583

GWC-24	6/23/2015	ND<10	129
	6/14/2016	ND<10	129
	6/15/2017	ND<10	129
	6/20/2018	ND<10	129
	6/12/2019	ND<10	129
	12/10/2019	24	284
	6/25/2020	ND<10	129

Rank Sum = 1058
Rank Mean = 151.143

GWC-6	6/23/2015	ND<10	129
	12/9/2015	ND<10	129
	6/15/2016	ND<10	129
	12/9/2016	ND<10	129
	6/13/2017	ND<10	129
	12/14/2017	ND<10	129
	6/21/2018	ND<10	129
	12/20/2018	ND<10	129
	6/13/2019	ND<10	129
	12/11/2019	ND<10	129
	6/25/2020	ND<10	129
	12/18/2020	ND<10	129

Rank Sum = 1548
Rank Mean = 129

GWC-9	6/23/2015	67	354
	12/9/2015	38	324
	6/15/2016	54	348
	12/9/2016	140	364
	6/16/2017	73	358

	12/14/2017	46	343
	6/21/2018	45	341
	12/19/2018	38	325
	6/13/2019	60	351
	12/13/2019	78	359
	6/25/2020	45.9	342
	12/18/2020	41.9	332

Rank Sum = 4141
Rank Mean = 345.083

GWC-16A	6/24/2015	ND<10	129
	12/10/2015	ND<10	129
	6/17/2016	ND<10	129
	12/8/2016	ND<10	129
	6/15/2017	79	360
	12/14/2017	ND<10	129
	6/21/2018	44	338
	12/20/2018	ND<10	129
	6/13/2019	ND<10	129
	12/12/2019	ND<10	129
	6/23/2020	ND<10	129
	12/17/2020	ND<10	129

Rank Sum = 1988
Rank Mean = 165.667

GWC-14	6/24/2015	23	275
	12/10/2015	68	356
	6/15/2016	20	262
	6/21/2018	67	355
	6/12/2019	ND<10	129
	12/11/2019	27.7	301
	6/25/2020	25.3	290
	12/18/2020	ND<10	129

Rank Sum = 2097
Rank Mean = 262.125

GWC-14A	6/24/2015	ND<10	129
	12/10/2015	20	263
	6/16/2016	ND<10	129
	12/8/2016	ND<10	129
	6/13/2017	ND<10	129
	12/13/2017	ND<10	129
	6/21/2018	20	264
	12/19/2018	ND<10	129
	6/12/2019	ND<10	129
	12/11/2019	ND<10	129
	6/24/2020	ND<10	129
	12/16/2020	ND<10	129

Rank Sum = 1817
Rank Mean = 151.417

GWC-15	6/24/2015	50	346
	12/9/2015	39	328
	6/16/2016	55	349
	12/8/2016	ND<10	129
	6/14/2017	90	362
	12/14/2017	60	352

	6/20/2018	56	350
	12/19/2018	ND<10	129
	6/11/2019	ND<10	129
	12/10/2019	ND<10	129
	6/25/2020	ND<10	129
	12/17/2020	ND<10	129

Rank Sum = 2861
Rank Mean = 238.417

GWC-8	6/24/2015	ND<10	129
	12/10/2015	ND<10	129
	6/16/2016	ND<10	129
	12/9/2016	26	297
	12/13/2017	ND<10	129
	6/21/2018	ND<10	129
	6/13/2019	ND<10	129
	12/12/2019	ND<10	129
	6/24/2020	ND<10	129
	12/17/2020	ND<10	129

Rank Sum = 1458
Rank Mean = 145.8

GWC-8A	6/24/2015	ND<10	129
	12/10/2015	ND<10	129
	6/16/2016	ND<10	129
	12/9/2016	ND<10	129
	6/14/2017	ND<10	129
	12/13/2017	ND<10	129
	6/21/2018	34	319
	12/20/2018	42	334
	6/13/2019	ND<10	129
	12/12/2019	ND<10	129
	6/24/2020	ND<10	129
	12/16/2020	ND<10	129

Rank Sum = 1943
Rank Mean = 161.917

GWC-2	6/25/2015	ND<10	129
	12/10/2015	ND<10	129
	6/15/2016	ND<10	129
	12/9/2016	ND<10	129
	6/16/2017	ND<10	129
	12/14/2017	ND<10	129
	6/21/2018	ND<10	129
	12/20/2018	23	276
	6/13/2019	28	305
	12/11/2019	25	286
	6/23/2020	27.8	302
	12/17/2020	ND<10	129

Rank Sum = 2201
Rank Mean = 183.417

GWC-3	6/25/2015	ND<10	129
	12/10/2015	ND<10	129
	6/15/2016	25	287
	6/21/2018	ND<10	129
	12/18/2018	ND<10	129

	6/12/2019	ND<10	129
	12/11/2019	ND<10	129
	6/25/2020	ND<10	129
	12/17/2020	ND<10	129

Rank Sum = 1319
Rank Mean = 146.556

GWC-3A	6/25/2015	ND<10	129
	12/10/2015	ND<10	129
	6/15/2016	ND<10	129
	12/9/2016	ND<10	129
	6/16/2017	34	320
	12/13/2017	ND<10	129
	6/21/2018	ND<10	129
	12/18/2018	ND<10	129
	6/12/2019	24	285
	12/11/2019	28.8	306
	6/25/2020	33.1	317
	12/17/2020	ND<10	129

Rank Sum = 2260
Rank Mean = 188.333

GWC-4	6/25/2015	ND<10	129
	12/10/2015	62	353
	6/17/2016	ND<10	129
	12/8/2016	ND<10	129
	6/21/2018	25	288
	6/24/2020	ND<10	129
	12/18/2020	ND<10	129

Rank Sum = 1286
Rank Mean = 183.714

GWC-4A	6/25/2015	ND<10	129
	12/10/2015	ND<10	129
	6/17/2016	ND<10	129
	12/8/2016	ND<10	129
	6/14/2017	ND<10	129
	12/13/2017	25	289
	6/21/2018	ND<10	129
	12/18/2018	ND<10	129
	6/12/2019	23	277
	12/12/2019	50	347
	6/24/2020	ND<10	129
	12/18/2020	ND<10	129

Rank Sum = 2074
Rank Mean = 172.833

GWC-5	6/25/2015	ND<10	129
	12/8/2015	ND<10	129
	6/15/2016	ND<10	129
	12/9/2016	ND<10	129
	6/13/2017	20	265
	12/13/2017	ND<10	129
	6/21/2018	ND<10	129
	12/19/2018	26	298
	6/13/2019	ND<10	129
	12/11/2019	38.3	326

	6/24/2020	ND<10	129
	12/18/2020	ND<10	129

Rank Sum = 2050
Rank Mean = 170.833

GWC-7	6/25/2015	ND<10	129
	12/8/2015	27	300
	6/16/2016	36	321
	12/9/2016	ND<10	129
	6/13/2017	20	266
	12/13/2017	ND<10	129
	6/20/2018	30	310
	12/19/2018	110	363
	6/13/2019	23	278
	12/12/2019	42.2	335
	6/25/2020	ND<10	129
	12/18/2020	ND<10	129

Rank Sum = 2818
Rank Mean = 234.833

Calculation Results:

Kruskal-Wallis H Statistic = 74.4025
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 114.811
95% Confidence comparison value is 43.773 at 30 degrees of freedom
74.4025 > 43.773 indicating a significant group difference at 5% significance level
114.811 > 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 239.458

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	141.667	-97.7917	86.5436
GWA-3	193.5	-45.9583	86.5436
GWC-10	244.583	5.125	86.5436
GWC-10A	160.667	-78.7917	86.5436
GWC-11	202.417	-37.0417	86.5436
GWC-12	129	-110.458	86.5436
GWC-12A	153.667	-85.7917	86.5436
GWC-13	159.167	-80.2917	86.5436
GWC-17	170.455	-69.0038	89.1276
GWC-18	203.833	-35.625	86.5436
GWC-19R	140.667	-98.7917	86.5436
GWC-22	154.667	-84.7917	86.5436
GWC-23	129	-110.458	86.5436
GWC-23A	144.583	-94.875	86.5436
GWC-24	151.143	-88.3155	105.149
GWC-6	129	-110.458	86.5436
GWC-9	**345.083**	**105.625**	**86.5436**
GWC-16A	165.667	-73.7917	86.5436
GWC-14	262.125	22.6667	99.932
GWC-14A	151.417	-88.0417	86.5436
GWC-15	238.417	-1.04167	86.5436
GWC-8	145.8	-93.6583	92.1327
GWC-8A	161.917	-77.5417	86.5436
GWC-2	183.417	-56.0417	86.5436

GWC-3	146.556	-92.9028	95.6776
GWC-3A	188.333	-51.125	86.5436
GWC-4	183.714	-55.744	105.149
GWC-4A	172.833	-66.625	86.5436
GWC-5	170.833	-68.625	86.5436
GWC-7	234.833	-4.625	86.5436

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 239.458

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	141.667	-97.7917	114.962
GWA-3	193.5	-45.9583	114.962
GWC-10	244.583	5.125	114.962
GWC-10A	160.667	-78.7917	114.962
GWC-11	202.417	-37.0417	114.962
GWC-12	129	-110.458	114.962
GWC-12A	153.667	-85.7917	114.962
GWC-13	159.167	-80.2917	114.962
GWC-17	170.455	-69.0038	118.394
GWC-18	203.833	-35.625	114.962
GWC-19R	140.667	-98.7917	114.962
GWC-22	154.667	-84.7917	114.962
GWC-23	129	-110.458	114.962
GWC-23A	144.583	-94.875	114.962
GWC-24	151.143	-88.3155	139.677
GWC-6	129	-110.458	114.962
GWC-9	345.083	105.625	114.962
GWC-16A	165.667	-73.7917	114.962
GWC-14	262.125	22.6667	132.747
GWC-14A	151.417	-88.0417	114.962
GWC-15	238.417	-1.04167	114.962
GWC-8	145.8	-93.6583	122.386
GWC-8A	161.917	-77.5417	114.962
GWC-2	183.417	-56.0417	114.962
GWC-3	146.556	-92.9028	127.095
GWC-3A	188.333	-51.125	114.962
GWC-4	183.714	-55.744	139.677
GWC-4A	172.833	-66.625	114.962
GWC-5	170.833	-68.625	114.962
GWC-7	234.833	-4.625	114.962

Atlantic Coast Consulting, Inc.

STATISTICAL ANALYSIS:
Non-Parametric Tolerance Interval Test

Forsyth County - Hightower Road MSWLF - Phase I
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-2	FALSE	96%
1,1-Dichloroethane	PH1-GWB-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	96%
1,1-Dichloroethane	PH1-GWC-2	**TRUE**	96%
1,1-Dichloroethane	GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWB-2	FALSE	96%
1,1-Dichloroethane	PH1-GWC-1	FALSE	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%
cis-1,2-Dichloroethene	PH1-GWA-2	**TRUE**	96%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1	**TRUE**	96%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-2	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	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%
Tetrachloroethene	PH1-GWA-2	FALSE	96%
Tetrachloroethene	PH1-GWB-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1A	FALSE	96%
Tetrachloroethene	PH1-GWC-2	**TRUE**	96%
Tetrachloroethene	GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWB-2	FALSE	96%
Tetrachloroethene	PH1-GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWC-3	**TRUE**	96%
Tetrachloroethene	PH1-GWC-3A	**TRUE**	96%
Tetrachloroethene	PH1-GWC-4	FALSE	96%
Trichloroethene	PH1-GWA-2	**TRUE**	96%
Trichloroethene	PH1-GWB-1	FALSE	96%
Trichloroethene	PH1-GWA-1	FALSE	96%
Trichloroethene	PH1-GWA-1A	FALSE	96%
Trichloroethene	PH1-GWC-2	*Passed KW*	96%
Trichloroethene	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 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWB-2	FALSE	96%
Trichloroethene	PH1-GWC-1	FALSE	96%
Trichloroethene	PH1-GWC-3	**TRUE**	96%
Trichloroethene	PH1-GWC-3A	**TRUE**	96%
Trichloroethene	PH1-GWC-4	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-GWC-2	FALSE	96%
Total Barium	PH1-GWA-1	FALSE	96%
Total Barium	GWC-1	**TRUE**	96%
Total Barium	PH1-GWB-2	FALSE	96%
Total Barium	PH1-GWC-1	FALSE	96%
Total Barium	PH1-GWC-3	FALSE	96%
Total Barium	PH1-GWC-3A	FALSE	96%
Total Barium	PH1-GWC-4	**TRUE**	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-GWC-2	FALSE	96%
Total Chromium	PH1-GWA-1	FALSE	96%
Total Chromium	GWC-1	FALSE	96%
Total Chromium	PH1-GWB-2	FALSE	96%
Total Chromium	PH1-GWC-1	FALSE	96%
Total Chromium	PH1-GWC-3	FALSE	96%
Total Chromium	PH1-GWC-3A	FALSE	96%
Total Chromium	PH1-GWC-4	FALSE	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-GWC-2	FALSE	96%
Total Cobalt	PH1-GWA-1	**TRUE**	96%
Total Cobalt	GWC-1	FALSE	96%
Total Cobalt	PH1-GWB-2	FALSE	96%
Total Cobalt	PH1-GWC-1	FALSE	96%
Total Cobalt	PH1-GWC-3	FALSE	96%
Total Cobalt	PH1-GWC-3A	FALSE	96%
Total Cobalt	PH1-GWC-4	FALSE	96%
Total Zinc	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 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	PH1-GWA-2	FALSE	96%
Total Zinc	PH1-GWB-1	FALSE	96%
Total Zinc	PH1-GWC-2	FALSE	96%
Total Zinc	PH1-GWA-1	FALSE	96%
Total Zinc	GWC-1	FALSE	96%
Total Zinc	PH1-GWB-2	FALSE	96%
Total Zinc	PH1-GWC-1	FALSE	96%
Total Zinc	PH1-GWC-3	FALSE	96%
Total Zinc	PH1-GWC-3A	FALSE	96%
Total Zinc	PH1-GWC-4	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 = 78.0645%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/24/2020	ND<2	FALSE
PH1-GWA-2	12/15/2020	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-1	6/24/2020	ND<2	FALSE
PH1-GWB-1	12/17/2020	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-1	6/22/2020	ND<2	FALSE
PH1-GWA-1	12/15/2020	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-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	ND<2	FALSE
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-2	**6/22/2020**	**3.1**	**TRUE**
PH1-GWC-2	**12/17/2020**	**3.8**	**TRUE**
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
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE
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-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	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
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE
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-3	**6/22/2020**	**2.9**	**TRUE**
PH1-GWC-3	**12/15/2020**	**3.6**	**TRUE**
PH1-GWC-3A	**6/24/2015**	**2.4**	**TRUE**
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-3A	6/26/2020	ND<2	FALSE
PH1-GWC-3A	**12/15/2020**	**3**	**TRUE**
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
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 60.6452%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	**6/24/2020**	**42**	**TRUE**
PH1-GWA-2	**12/15/2020**	**52**	**TRUE**
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-1	6/24/2020	ND<2	FALSE
PH1-GWB-1	12/17/2020	ND<2	FALSE
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-1	**6/22/2020**	**4**	**TRUE**
PH1-GWA-1	**12/15/2020**	**4.3**	**TRUE**
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-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	ND<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-2	**6/22/2020**	**6**	**TRUE**
PH1-GWC-2	**12/17/2020**	**7.8**	**TRUE**

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
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE

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-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	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
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE

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-3	**6/22/2020**	**20**	**TRUE**
PH1-GWC-3	**12/15/2020**	**26**	**TRUE**

PH1-GWC-3A	**6/24/2015**	**9.3**	**TRUE**
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-3A	**6/26/2020**	**14**	**TRUE**
PH1-GWC-3A	**12/15/2020**	**16**	**TRUE**

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
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 74.1935%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/24/2020	ND<2	FALSE
PH1-GWA-2	12/15/2020	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-1	6/24/2020	ND<2	FALSE
PH1-GWB-1	12/17/2020	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-1	6/22/2020	ND<2	FALSE
PH1-GWA-1	12/15/2020	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-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	ND<2	FALSE
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-2	**6/22/2020**	**4.6**	**TRUE**
PH1-GWC-2	**12/17/2020**	**5.3**	**TRUE**
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
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE
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-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	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
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE
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-3	**6/22/2020**	**9**	**TRUE**
PH1-GWC-3	**12/15/2020**	**9.1**	**TRUE**
PH1-GWC-3A	**6/24/2015**	**8.5**	**TRUE**
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-3A	6/26/2020	ND<2	FALSE
PH1-GWC-3A	**12/15/2020**	**5.7**	**TRUE**
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
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70.9677%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	**6/24/2020**	**2.4**	**TRUE**
PH1-GWA-2	**12/15/2020**	**2.5**	**TRUE**
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-1	6/24/2020	ND<2	FALSE
PH1-GWB-1	12/17/2020	ND<2	FALSE
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-1	6/22/2020	ND<2	FALSE
PH1-GWA-1	12/15/2020	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-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	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-2	**6/22/2020**	**2.1**	**TRUE**
PH1-GWC-2	**12/17/2020**	**2.5**	**TRUE**
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
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE
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-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	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
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE
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-3	**6/22/2020**	**7.1**	**TRUE**
PH1-GWC-3	**12/15/2020**	**7.6**	**TRUE**
PH1-GWC-3A	**6/24/2015**	**6.5**	**TRUE**
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-3A	**6/26/2020**	**2.8**	**TRUE**
PH1-GWC-3A	**12/15/2020**	**8.1**	**TRUE**
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
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 26.4516%
Background measurements (n) = 24
Maximum Background Concentration = 37
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-1A	6/22/2020	21.7	FALSE
PH1-GWA-1A	12/18/2020	27.4	FALSE
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-GWA-2	**6/25/2020**	**64.6**	**TRUE**
PH1-GWA-2	**12/16/2020**	**65.5**	**TRUE**
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-1	**6/25/2020**	**79.3**	**TRUE**
PH1-GWB-1	**12/18/2020**	**50.5**	**TRUE**
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-2	6/22/2020	33.6	FALSE
PH1-GWC-2	12/17/2020	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-1	6/23/2020	27.7	FALSE
PH1-GWA-1	12/16/2020	ND<20	FALSE
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**
GWC-1	**6/23/2020**	**95.3**	**TRUE**
GWC-1	**12/17/2020**	**81.1**	**TRUE**
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-GWB-2	6/25/2020	ND<20	FALSE
PH1-GWB-2	12/18/2020	ND<20	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**
PH1-GWC-1	**6/23/2020**	**42.8**	**TRUE**
PH1-GWC-1	12/18/2020	32.1	FALSE
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-3	6/23/2020	23.6	FALSE
PH1-GWC-3	12/16/2020	25.6	FALSE
PH1-GWC-3A	6/25/2015	28	FALSE
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-3A	6/23/2020	23.9	FALSE
PH1-GWC-3A	12/16/2020	25.9	FALSE
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
PH1-GWC-4	6/23/2020	25.2	FALSE
PH1-GWC-4	**12/18/2020**	**56.4**	**TRUE**

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-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-1A	6/22/2020	ND<10	FALSE
PH1-GWA-1A	12/18/2020	ND<10	FALSE
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-GWA-2	6/25/2020	ND<10	FALSE
PH1-GWA-2	12/16/2020	ND<10	FALSE
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-1	6/25/2020	ND<10	FALSE
PH1-GWB-1	12/18/2020	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-2	**6/22/2020**	**27.2**	**TRUE**
PH1-GWC-2	12/17/2020	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-1	6/23/2020	ND<10	FALSE
PH1-GWA-1	12/16/2020	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
GWC-1	6/23/2020	ND<10	FALSE
GWC-1	12/17/2020	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-GWB-2	6/25/2020	ND<10	FALSE
PH1-GWB-2	12/18/2020	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
PH1-GWC-1	6/23/2020	ND<10	FALSE
PH1-GWC-1	12/18/2020	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-3	6/23/2020	ND<10	FALSE
PH1-GWC-3	12/16/2020	ND<10	FALSE

PH1-GWC-3A	6/25/2015	ND<10	FALSE
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-3A	6/23/2020	ND<10	FALSE
PH1-GWC-3A	12/16/2020	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
PH1-GWC-4	6/23/2020	ND<10	FALSE
PH1-GWC-4	12/18/2020	ND<10	FALSE

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-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-1A	6/22/2020	ND<40	FALSE
PH1-GWA-1A	12/18/2020	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-GWA-2	6/25/2020	ND<40	FALSE
PH1-GWA-2	12/16/2020	ND<40	FALSE
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-1	6/25/2020	ND<40	FALSE
PH1-GWB-1	12/18/2020	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-2	6/22/2020	ND<40	FALSE
PH1-GWC-2	12/17/2020	ND<40	FALSE
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-1	**6/23/2020**	**76.6**	**TRUE**
PH1-GWA-1	**12/16/2020**	**95.6**	**TRUE**
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
GWC-1	6/23/2020	ND<40	FALSE
GWC-1	12/17/2020	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-GWB-2	6/25/2020	ND<40	FALSE
PH1-GWB-2	12/18/2020	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
PH1-GWC-1	6/23/2020	ND<40	FALSE
PH1-GWC-1	12/18/2020	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-3	6/23/2020	ND<40	FALSE
PH1-GWC-3	12/16/2020	ND<40	FALSE
PH1-GWC-3A	6/25/2015	ND<40	FALSE
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-3A	6/23/2020	ND<40	FALSE
PH1-GWC-3A	12/16/2020	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
PH1-GWC-4	6/23/2020	ND<40	FALSE
PH1-GWC-4	12/18/2020	ND<40	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 73.5484%
Background measurements (n) = 24
Maximum Background Concentration = 48.9
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-1A	6/22/2020	ND<20	FALSE
PH1-GWA-1A	12/18/2020	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-GWA-2	6/25/2020	ND<20	FALSE
PH1-GWA-2	12/16/2020	ND<20	FALSE
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-1	6/25/2020	26.8	FALSE
PH1-GWB-1	12/18/2020	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	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-2	6/22/2020	ND<20	FALSE
PH1-GWC-2	12/17/2020	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-1	6/23/2020	ND<20	FALSE
PH1-GWA-1	12/16/2020	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
GWC-1	**6/23/2020**	**55.4**	**TRUE**
GWC-1	12/17/2020	ND<20	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-GWB-2	6/25/2020	25.4	FALSE
PH1-GWB-2	12/18/2020	21.6	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
PH1-GWC-1	6/23/2020	32.5	FALSE
PH1-GWC-1	12/18/2020	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-3	6/23/2020	ND<20	FALSE
PH1-GWC-3	12/16/2020	ND<20	FALSE

PH1-GWC-3A	6/25/2015	ND<20	FALSE
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-3A	6/23/2020	36.9	FALSE
PH1-GWC-3A	12/16/2020	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	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
PH1-GWC-4	6/23/2020	ND<20	FALSE
PH1-GWC-4	12/18/2020	ND<20	FALSE

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 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-10	FALSE	96%
1,1-Dichloroethane	GWC-10A	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	GWC-19R	FALSE	96%
1,1-Dichloroethane	GWC-22	FALSE	96%
1,1-Dichloroethane	GWC-23	FALSE	96%
1,1-Dichloroethane	GWC-23A	FALSE	96%
1,1-Dichloroethane	GWC-24	FALSE	96%
1,1-Dichloroethane	GWC-6	FALSE	96%
1,1-Dichloroethane	GWC-9	FALSE	96%
1,1-Dichloroethane	GWA-1A	FALSE	96%
1,1-Dichloroethane	GWC-14A	**TRUE**	96%
1,1-Dichloroethane	GWC-14R	**TRUE**	96%
1,1-Dichloroethane	GWC-15	**TRUE**	96%
1,1-Dichloroethane	GWC-8	FALSE	96%
1,1-Dichloroethane	GWC-8R	**TRUE**	96%
1,1-Dichloroethane	GWC-16A	FALSE	96%
1,1-Dichloroethane	GWC-14	FALSE	96%
1,1-Dichloroethane	GWC-2	FALSE	96%
1,1-Dichloroethane	GWC-3	FALSE	96%
1,1-Dichloroethane	GWC-3A	FALSE	96%
1,1-Dichloroethane	GWC-4	FALSE	96%
1,1-Dichloroethane	GWC-4A	FALSE	96%
1,1-Dichloroethane	GWC-5	FALSE	96%
1,1-Dichloroethane	GWC-7	FALSE	96%
1,1-Dichloroethane	GWC-8A	**TRUE**	96%
Acetone	GWA-3	FALSE	96%
Acetone	GWC-10	FALSE	96%
Acetone	GWC-10A	FALSE	96%
Acetone	GWC-11	FALSE	96%
Acetone	GWC-12	FALSE	96%
Acetone	GWC-12A	FALSE	96%
Acetone	GWC-13	FALSE	96%

Notes:
1. Original data are not transformed.
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3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-17	FALSE	96%
Acetone	GWC-18	FALSE	96%
Acetone	GWC-19R	FALSE	96%
Acetone	GWC-22	FALSE	96%
Acetone	GWC-23	FALSE	96%
Acetone	GWC-23A	FALSE	96%
Acetone	GWC-24	FALSE	96%
Acetone	GWC-6	FALSE	96%
Acetone	GWC-9	FALSE	96%
Acetone	GWA-1A	FALSE	96%
Acetone	GWC-14A	FALSE	96%
Acetone	GWC-14R	FALSE	96%
Acetone	GWC-15	FALSE	96%
Acetone	GWC-8	FALSE	96%
Acetone	GWC-8R	FALSE	96%
Acetone	GWC-16A	FALSE	96%
Acetone	GWC-14	FALSE	96%
Acetone	GWC-2	FALSE	96%
Acetone	GWC-3	FALSE	96%
Acetone	GWC-3A	FALSE	96%
Acetone	GWC-4	FALSE	96%
Acetone	GWC-4A	FALSE	96%
Acetone	GWC-5	FALSE	96%
Acetone	GWC-7	FALSE	96%
Acetone	GWC-8A	FALSE	96%
Benzene	GWA-3	FALSE	96%
Benzene	GWC-10	FALSE	96%
Benzene	GWC-10A	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	GWC-19R	FALSE	96%
Benzene	GWC-22	FALSE	96%
Benzene	GWC-23	FALSE	96%
Benzene	GWC-23A	FALSE	96%
Benzene	GWC-24	FALSE	96%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-6	FALSE	96%
Benzene	GWC-9	FALSE	96%
Benzene	GWA-1A	FALSE	96%
Benzene	GWC-14A	**TRUE**	96%
Benzene	GWC-14R	FALSE	96%
Benzene	GWC-15	*Passed KW*	96%
Benzene	GWC-8	FALSE	96%
Benzene	GWC-8R	FALSE	96%
Benzene	GWC-16A	FALSE	96%
Benzene	GWC-14	FALSE	96%
Benzene	GWC-2	FALSE	96%
Benzene	GWC-3	FALSE	96%
Benzene	GWC-3A	FALSE	96%
Benzene	GWC-4	FALSE	96%
Benzene	GWC-4A	FALSE	96%
Benzene	GWC-5	FALSE	96%
Benzene	GWC-7	FALSE	96%
Benzene	GWC-8A	**TRUE**	96%
Chlorobenzene	GWA-3	FALSE	96%
Chlorobenzene	GWC-10	FALSE	96%
Chlorobenzene	GWC-10A	FALSE	96%
Chlorobenzene	GWC-11	FALSE	96%
Chlorobenzene	GWC-12	FALSE	96%
Chlorobenzene	GWC-12A	FALSE	96%
Chlorobenzene	GWC-13	FALSE	96%
Chlorobenzene	GWC-17	FALSE	96%
Chlorobenzene	GWC-18	FALSE	96%
Chlorobenzene	GWC-19R	FALSE	96%
Chlorobenzene	GWC-22	FALSE	96%
Chlorobenzene	GWC-23	FALSE	96%
Chlorobenzene	GWC-23A	FALSE	96%
Chlorobenzene	GWC-24	FALSE	96%
Chlorobenzene	GWC-6	FALSE	96%
Chlorobenzene	GWC-9	FALSE	96%
Chlorobenzene	GWA-1A	FALSE	96%
Chlorobenzene	GWC-14A	*Passed KW*	96%
Chlorobenzene	GWC-14R	FALSE	96%
Chlorobenzene	GWC-15	FALSE	96%
Chlorobenzene	GWC-8	FALSE	96%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-8R	FALSE	96%
Chlorobenzene	GWC-16A	FALSE	96%
Chlorobenzene	GWC-14	FALSE	96%
Chlorobenzene	GWC-2	FALSE	96%
Chlorobenzene	GWC-3	FALSE	96%
Chlorobenzene	GWC-3A	FALSE	96%
Chlorobenzene	GWC-4	FALSE	96%
Chlorobenzene	GWC-4A	FALSE	96%
Chlorobenzene	GWC-5	FALSE	96%
Chlorobenzene	GWC-7	FALSE	96%
Chlorobenzene	GWC-8A	FALSE	96%
Chloroethane	GWA-3	FALSE	96%
Chloroethane	GWC-10	FALSE	96%
Chloroethane	GWC-10A	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	GWC-19R	FALSE	96%
Chloroethane	GWC-22	FALSE	96%
Chloroethane	GWC-23	FALSE	96%
Chloroethane	GWC-23A	FALSE	96%
Chloroethane	GWC-24	FALSE	96%
Chloroethane	GWC-6	FALSE	96%
Chloroethane	GWC-9	FALSE	96%
Chloroethane	GWA-1A	FALSE	96%
Chloroethane	GWC-14A	**TRUE**	96%
Chloroethane	GWC-14R	FALSE	96%
Chloroethane	GWC-15	FALSE	96%
Chloroethane	GWC-8	FALSE	96%
Chloroethane	GWC-8R	FALSE	96%
Chloroethane	GWC-16A	FALSE	96%
Chloroethane	GWC-14	FALSE	96%
Chloroethane	GWC-2	FALSE	96%
Chloroethane	GWC-3	FALSE	96%
Chloroethane	GWC-3A	FALSE	96%
Chloroethane	GWC-4	FALSE	96%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-4A	FALSE	96%
Chloroethane	GWC-5	FALSE	96%
Chloroethane	GWC-7	FALSE	96%
Chloroethane	GWC-8A	FALSE	96%
cis-1,2-Dichloroethene	GWA-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-10	FALSE	96%
cis-1,2-Dichloroethene	GWC-10A	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	GWC-19R	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-22	FALSE	96%
cis-1,2-Dichloroethene	GWC-23	FALSE	96%
cis-1,2-Dichloroethene	GWC-23A	FALSE	96%
cis-1,2-Dichloroethene	GWC-24	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-6	FALSE	96%
cis-1,2-Dichloroethene	GWC-9	FALSE	96%
cis-1,2-Dichloroethene	GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	GWC-14A	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-14R	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-15	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-8	FALSE	96%
cis-1,2-Dichloroethene	GWC-8R	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-16A	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-14	FALSE	96%
cis-1,2-Dichloroethene	GWC-2	FALSE	96%
cis-1,2-Dichloroethene	GWC-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-3A	FALSE	96%
cis-1,2-Dichloroethene	GWC-4	FALSE	96%
cis-1,2-Dichloroethene	GWC-4A	FALSE	96%
cis-1,2-Dichloroethene	GWC-5	FALSE	96%
cis-1,2-Dichloroethene	GWC-7	FALSE	96%
cis-1,2-Dichloroethene	GWC-8A	**TRUE**	96%
Tetrachloroethene	GWA-3	FALSE	96%
Tetrachloroethene	GWC-10	FALSE	96%
Tetrachloroethene	GWC-10A	FALSE	96%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
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	GWC-19R	FALSE	96%
Tetrachloroethene	GWC-22	FALSE	96%
Tetrachloroethene	GWC-23	FALSE	96%
Tetrachloroethene	GWC-23A	FALSE	96%
Tetrachloroethene	GWC-24	FALSE	96%
Tetrachloroethene	GWC-6	FALSE	96%
Tetrachloroethene	GWC-9	FALSE	96%
Tetrachloroethene	GWA-1A	FALSE	96%
Tetrachloroethene	GWC-14A	FALSE	96%
Tetrachloroethene	GWC-14R	FALSE	96%
Tetrachloroethene	GWC-15	**TRUE**	96%
Tetrachloroethene	GWC-8	FALSE	96%
Tetrachloroethene	GWC-8R	FALSE	96%
Tetrachloroethene	GWC-16A	FALSE	96%
Tetrachloroethene	GWC-14	FALSE	96%
Tetrachloroethene	GWC-2	FALSE	96%
Tetrachloroethene	GWC-3	FALSE	96%
Tetrachloroethene	GWC-3A	FALSE	96%
Tetrachloroethene	GWC-4	FALSE	96%
Tetrachloroethene	GWC-4A	FALSE	96%
Tetrachloroethene	GWC-5	FALSE	96%
Tetrachloroethene	GWC-7	FALSE	96%
Tetrachloroethene	GWC-8A	FALSE	96%
Toluene	GWA-3	FALSE	96%
Toluene	GWC-10	FALSE	96%
Toluene	GWC-10A	FALSE	96%
Toluene	GWC-11	FALSE	96%
Toluene	GWC-12	FALSE	96%
Toluene	GWC-12A	FALSE	96%
Toluene	GWC-13	FALSE	96%
Toluene	GWC-17	FALSE	96%
Toluene	GWC-18	FALSE	96%
Toluene	GWC-19R	FALSE	96%

Notes:
1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-22	FALSE	96%
Toluene	GWC-23	FALSE	96%
Toluene	GWC-23A	FALSE	96%
Toluene	GWC-24	FALSE	96%
Toluene	GWC-6	FALSE	96%
Toluene	GWC-9	FALSE	96%
Toluene	GWA-1A	FALSE	96%
Toluene	GWC-14A	FALSE	96%
Toluene	GWC-14R	FALSE	96%
Toluene	GWC-15	FALSE	96%
Toluene	GWC-8	FALSE	96%
Toluene	GWC-8R	FALSE	96%
Toluene	GWC-16A	FALSE	96%
Toluene	GWC-14	FALSE	96%
Toluene	GWC-2	FALSE	96%
Toluene	GWC-3	FALSE	96%
Toluene	GWC-3A	FALSE	96%
Toluene	GWC-4	FALSE	96%
Toluene	GWC-4A	FALSE	96%
Toluene	GWC-5	FALSE	96%
Toluene	GWC-7	FALSE	96%
Toluene	GWC-8A	FALSE	96%
Trichloroethene	GWA-3	FALSE	96%
Trichloroethene	GWC-10	FALSE	96%
Trichloroethene	GWC-10A	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	GWC-19R	FALSE	96%
Trichloroethene	GWC-22	FALSE	96%
Trichloroethene	GWC-23	FALSE	96%
Trichloroethene	GWC-23A	FALSE	96%
Trichloroethene	GWC-24	FALSE	96%
Trichloroethene	GWC-6	FALSE	96%
Trichloroethene	GWC-9	FALSE	96%
Trichloroethene	GWA-1A	FALSE	96%

Notes:
1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-14A	FALSE	96%
Trichloroethene	GWC-14R	**TRUE**	96%
Trichloroethene	GWC-15	**TRUE**	96%
Trichloroethene	GWC-8	FALSE	96%
Trichloroethene	GWC-8R	FALSE	96%
Trichloroethene	GWC-16A	FALSE	96%
Trichloroethene	GWC-14	FALSE	96%
Trichloroethene	GWC-2	FALSE	96%
Trichloroethene	GWC-3	FALSE	96%
Trichloroethene	GWC-3A	FALSE	96%
Trichloroethene	GWC-4	FALSE	96%
Trichloroethene	GWC-4A	FALSE	96%
Trichloroethene	GWC-5	FALSE	96%
Trichloroethene	GWC-7	FALSE	96%
Trichloroethene	GWC-8A	FALSE	96%
Vinyl chloride	GWA-3	FALSE	96%
Vinyl chloride	GWC-10	FALSE	96%
Vinyl chloride	GWC-10A	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	GWC-19R	FALSE	96%
Vinyl chloride	GWC-22	FALSE	96%
Vinyl chloride	GWC-23	FALSE	96%
Vinyl chloride	GWC-23A	FALSE	96%
Vinyl chloride	GWC-24	FALSE	96%
Vinyl chloride	GWC-6	FALSE	96%
Vinyl chloride	GWC-9	FALSE	96%
Vinyl chloride	GWA-1A	FALSE	96%
Vinyl chloride	GWC-14A	**TRUE**	96%
Vinyl chloride	GWC-14R	FALSE	96%
Vinyl chloride	GWC-15	FALSE	96%
Vinyl chloride	GWC-8	FALSE	96%
Vinyl chloride	GWC-8R	FALSE	96%
Vinyl chloride	GWC-16A	FALSE	96%
Vinyl chloride	GWC-14	FALSE	96%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-2	FALSE	96%
Vinyl chloride	GWC-3	FALSE	96%
Vinyl chloride	GWC-3A	FALSE	96%
Vinyl chloride	GWC-4	FALSE	96%
Vinyl chloride	GWC-4A	FALSE	96%
Vinyl chloride	GWC-5	FALSE	96%
Vinyl chloride	GWC-7	FALSE	96%
Vinyl chloride	GWC-8A	FALSE	96%
Total Barium	GWA-1A	FALSE	96%
Total Barium	GWA-3	FALSE	96%
Total Barium	GWC-10	FALSE	96%
Total Barium	GWC-10A	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	*Passed KW*	96%
Total Barium	GWC-18	**TRUE**	96%
Total Barium	GWC-19R	**TRUE**	96%
Total Barium	GWC-22	FALSE	96%
Total Barium	GWC-23	FALSE	96%
Total Barium	GWC-23A	FALSE	96%
Total Barium	GWC-24	FALSE	96%
Total Barium	GWC-6	FALSE	96%
Total Barium	GWC-9	**TRUE**	96%
Total Barium	GWC-16A	FALSE	96%
Total Barium	GWC-14	*Passed KW*	96%
Total Barium	GWC-14A	**TRUE**	96%
Total Barium	GWC-15	**TRUE**	96%
Total Barium	GWC-8	FALSE	96%
Total Barium	GWC-8A	**TRUE**	96%
Total Barium	GWC-2	FALSE	96%
Total Barium	GWC-3	FALSE	96%
Total Barium	GWC-3A	FALSE	96%
Total Barium	GWC-4	FALSE	96%
Total Barium	GWC-4A	FALSE	96%
Total Barium	GWC-5	FALSE	96%
Total Barium	GWC-7	FALSE	96%
Total Chromium	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 - Phases II-IV
Second 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWA-3	FALSE	96%
Total Chromium	GWC-10	FALSE	96%
Total Chromium	GWC-10A	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-19R	FALSE	96%
Total Chromium	GWC-22	FALSE	96%
Total Chromium	GWC-23	FALSE	96%
Total Chromium	GWC-23A	FALSE	96%
Total Chromium	GWC-24	FALSE	96%
Total Chromium	GWC-6	FALSE	96%
Total Chromium	GWC-9	FALSE	96%
Total Chromium	GWC-16A	FALSE	96%
Total Chromium	GWC-14	FALSE	96%
Total Chromium	GWC-14A	FALSE	96%
Total Chromium	GWC-15	FALSE	96%
Total Chromium	GWC-8	FALSE	96%
Total Chromium	GWC-8A	FALSE	96%
Total Chromium	GWC-2	FALSE	96%
Total Chromium	GWC-3	FALSE	96%
Total Chromium	GWC-3A	FALSE	96%
Total Chromium	GWC-4	FALSE	96%
Total Chromium	GWC-4A	FALSE	96%
Total Chromium	GWC-5	FALSE	96%
Total Chromium	GWC-7	FALSE	96%
Total Cobalt	GWA-1A	FALSE	96%
Total Cobalt	GWA-3	FALSE	96%
Total Cobalt	GWC-10	FALSE	96%
Total Cobalt	GWC-10A	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%

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 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-19R	FALSE	96%
Total Cobalt	GWC-22	FALSE	96%
Total Cobalt	GWC-23	FALSE	96%
Total Cobalt	GWC-23A	FALSE	96%
Total Cobalt	GWC-24	FALSE	96%
Total Cobalt	GWC-6	FALSE	96%
Total Cobalt	GWC-9	FALSE	96%
Total Cobalt	GWC-16A	FALSE	96%
Total Cobalt	GWC-14	**TRUE**	96%
Total Cobalt	GWC-14A	**TRUE**	96%
Total Cobalt	GWC-15	FALSE	96%
Total Cobalt	GWC-8	FALSE	96%
Total Cobalt	GWC-8A	FALSE	96%
Total Cobalt	GWC-2	FALSE	96%
Total Cobalt	GWC-3	FALSE	96%
Total Cobalt	GWC-3A	FALSE	96%
Total Cobalt	GWC-4	FALSE	96%
Total Cobalt	GWC-4A	FALSE	96%
Total Cobalt	GWC-5	FALSE	96%
Total Cobalt	GWC-7	FALSE	96%
Total Nickel	GWA-1A	FALSE	96%
Total Nickel	GWA-3	FALSE	96%
Total Nickel	GWC-10	FALSE	96%
Total Nickel	GWC-10A	FALSE	96%
Total Nickel	GWC-11	FALSE	96%
Total Nickel	GWC-12	FALSE	96%
Total Nickel	GWC-12A	FALSE	96%
Total Nickel	GWC-13	FALSE	96%
Total Nickel	GWC-17	FALSE	96%
Total Nickel	GWC-18	FALSE	96%
Total Nickel	GWC-19R	FALSE	96%
Total Nickel	GWC-22	FALSE	96%
Total Nickel	GWC-23	FALSE	96%
Total Nickel	GWC-23A	FALSE	96%
Total Nickel	GWC-24	FALSE	96%
Total Nickel	GWC-6	FALSE	96%
Total Nickel	GWC-9	FALSE	96%
Total Nickel	GWC-16A	FALSE	96%
Total Nickel	GWC-14	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 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-14A	**TRUE**	96%
Total Nickel	GWC-15	FALSE	96%
Total Nickel	GWC-8	FALSE	96%
Total Nickel	GWC-8A	FALSE	96%
Total Nickel	GWC-2	FALSE	96%
Total Nickel	GWC-3	FALSE	96%
Total Nickel	GWC-3A	FALSE	96%
Total Nickel	GWC-4	FALSE	96%
Total Nickel	GWC-4A	FALSE	96%
Total Nickel	GWC-5	FALSE	96%
Total Nickel	GWC-7	FALSE	96%
Total Zinc	GWA-1A	FALSE	96%
Total Zinc	GWA-3	FALSE	96%
Total Zinc	GWC-10	FALSE	96%
Total Zinc	GWC-10A	FALSE	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-19R	FALSE	96%
Total Zinc	GWC-22	FALSE	96%
Total Zinc	GWC-23	FALSE	96%
Total Zinc	GWC-23A	FALSE	96%
Total Zinc	GWC-24	FALSE	96%
Total Zinc	GWC-6	FALSE	96%
Total Zinc	GWC-9	FALSE	96%
Total Zinc	GWC-16A	FALSE	96%
Total Zinc	GWC-14	FALSE	96%
Total Zinc	GWC-14A	FALSE	96%
Total Zinc	GWC-15	FALSE	96%
Total Zinc	GWC-8	FALSE	96%
Total Zinc	GWC-8A	FALSE	96%
Total Zinc	GWC-2	FALSE	96%
Total Zinc	GWC-3	FALSE	96%
Total Zinc	GWC-3A	FALSE	96%
Total Zinc	GWC-4	FALSE	96%
Total Zinc	GWC-4A	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 2020 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-5	FALSE	96%
Total Zinc	GWC-7	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 = 84.8866%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	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
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-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	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-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	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
GWC-11	6/24/2020	ND<2	FALSE
GWC-11	12/15/2020	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
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	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-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	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-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	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-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
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
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	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-19R	6/23/2020	ND<2	FALSE
GWC-19R	12/15/2020	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-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	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-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	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-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	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-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	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-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	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-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE

GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
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
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE

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-14A	**6/24/2020**	**10**	**TRUE**
GWC-14A	**12/15/2020**	**11**	**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**
GWC-14R	**6/12/2019**	**18**	**TRUE**
GWC-14R	**12/10/2019**	**14**	**TRUE**
GWC-14R	**6/23/2020**	**18**	**TRUE**
GWC-14R	**12/17/2020**	**19**	**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-15	**6/25/2020**	**39**	**TRUE**
GWC-15	**12/17/2020**	**33**	**TRUE**

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-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE

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-8R	**6/23/2020**	**13**	**TRUE**
GWC-8R	**12/15/2020**	**12**	**TRUE**

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-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	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
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GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE
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GWC-3	6/24/2020	ND<2	FALSE
GWC-3	12/16/2020	ND<2	FALSE
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GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
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GWC-4A	6/13/2017	ND<2	FALSE

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GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
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-8A	**6/23/2020**	**2.4**	**TRUE**
GWC-8A	**12/15/2020**	**3.2**	**TRUE**

Non-Parametric Tolerance Interval

Parameter: Acetone

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4962%
Background measurements (n) = 24
Maximum Background Concentration = 100
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	6/22/2020	ND<100	FALSE
GWA-3	12/16/2020	ND<100	FALSE
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GWC-10	12/17/2018	ND<100	FALSE
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GWC-10A	6/24/2020	ND<100	FALSE
GWC-10A	12/15/2020	ND<100	FALSE
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GWA-1A	12/9/2019	ND<100	FALSE
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GWA-1A	12/17/2020	ND<100	FALSE

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GWC-2	6/15/2017	ND<100	FALSE
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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-5	6/23/2020	ND<100	FALSE
GWC-5	12/17/2020	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-7	6/24/2020	ND<100	FALSE
GWC-7	12/17/2020	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-8A	6/23/2020	ND<100	FALSE
GWC-8A	12/15/2020	ND<100	FALSE

Non-Parametric Tolerance Interval

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.4509%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	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
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-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	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-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	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
GWC-11	6/24/2020	ND<2	FALSE
GWC-11	12/15/2020	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
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	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-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	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-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	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-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	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
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	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-19R	6/23/2020	ND<2	FALSE
GWC-19R	12/15/2020	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-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	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-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	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-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	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-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	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-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	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-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE

GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
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
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE

GWC-14A	**6/23/2015**	**2.5**	**TRUE**
GWC-14A	**12/9/2015**	**2.3**	**TRUE**
GWC-14A	**6/15/2016**	**2.5**	**TRUE**
GWC-14A	**12/8/2016**	**2.3**	**TRUE**
GWC-14A	**6/13/2017**	**2.8**	**TRUE**
GWC-14A	**12/12/2017**	**3**	**TRUE**
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**
GWC-14A	**6/24/2020**	**2.5**	**TRUE**
GWC-14A	**12/15/2020**	**2.9**	**TRUE**

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
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE
GWC-14R	12/17/2020	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**	**3.2**	**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**	**3.1**	**TRUE**
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	**6/25/2020**	**3.6**	**TRUE**
GWC-15	**12/17/2020**	**3.1**	**TRUE**

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-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	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	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-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE

GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	**12/9/2015**	**2.8**	**TRUE**
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	ND<2	FALSE
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-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	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-14	6/24/2020	ND<2	FALSE
GWC-14	12/17/2020	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-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	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-3	6/24/2020	ND<2	FALSE
GWC-3	12/16/2020	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
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	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
GWC-4	6/23/2020	ND<2	FALSE
GWC-4	12/17/2020	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
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-4A	6/23/2020	ND<2	FALSE
GWC-4A	12/17/2020	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-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	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-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	**12/10/2015**	**2.7**	**TRUE**
GWC-8A	**6/15/2016**	**2.2**	**TRUE**
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-8A	6/23/2020	ND<2	FALSE
GWC-8A	**12/15/2020**	**2.3**	**TRUE**

Non-Parametric Tolerance Interval

Parameter: Chlorobenzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4962%
Background measurements (n) = 24
Maximum Background Concentration = 10
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/22/2015	ND<10	FALSE
GWA-3	12/7/2015	ND<10	FALSE
GWA-3	6/13/2016	ND<10	FALSE
GWA-3	12/8/2016	ND<10	FALSE
GWA-3	6/14/2017	ND<10	FALSE
GWA-3	12/11/2017	ND<10	FALSE
GWA-3	6/18/2018	ND<10	FALSE
GWA-3	12/17/2018	ND<10	FALSE
GWA-3	6/11/2019	ND<10	FALSE
GWA-3	12/10/2019	ND<10	FALSE
GWA-3	6/22/2020	ND<10	FALSE
GWA-3	12/16/2020	ND<10	FALSE
GWC-10	6/22/2015	ND<10	FALSE
GWC-10	12/7/2015	ND<10	FALSE
GWC-10	6/14/2016	ND<10	FALSE
GWC-10	12/8/2016	ND<10	FALSE
GWC-10	6/15/2017	ND<10	FALSE
GWC-10	12/12/2017	ND<10	FALSE
GWC-10	6/19/2018	ND<10	FALSE
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GWC-8A	12/15/2020	ND<10	FALSE

Non-Parametric Tolerance Interval

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.9698%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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GWC-13	12/11/2019	ND<2	FALSE
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GWC-13	12/15/2020	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
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GWC-17	6/19/2018	ND<2	FALSE
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GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
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GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	ND<2	FALSE
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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-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
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GWC-23	12/8/2015	ND<2	FALSE
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GWC-23	12/11/2017	ND<2	FALSE
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GWC-23A	6/15/2016	ND<2	FALSE
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GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
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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-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	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-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	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-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE

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GWA-1A	6/14/2016	ND<2	FALSE
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GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
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GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE

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-14A	**6/24/2020**	**3.3**	**TRUE**
GWC-14A	**12/15/2020**	**4.2**	**TRUE**

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GWC-14R	6/12/2019	ND<2	FALSE
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GWC-14R	6/23/2020	ND<2	FALSE
GWC-14R	12/17/2020	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**
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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-15	6/25/2020	ND<2	FALSE
GWC-15	12/17/2020	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
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GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE

GWC-8R	6/23/2015	ND<2	FALSE
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GWC-8R	6/15/2016	ND<2	FALSE
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GWC-16A	**12/9/2015**	**6.3**	**TRUE**
GWC-16A	6/16/2016	ND<2	FALSE
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GWC-16A	12/11/2019	ND<2	FALSE
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GWC-14	6/13/2017	ND<2	FALSE
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GWC-14	6/11/2019	ND<2	FALSE
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GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
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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
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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-8A	6/23/2020	ND<2	FALSE
GWC-8A	12/15/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.0327%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	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
GWC-10	6/15/2017	ND<2	FALSE
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GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
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GWC-10	12/15/2020	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
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GWC-13	6/14/2017	ND<2	FALSE
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GWC-13	12/15/2020	ND<2	FALSE
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GWC-17	**12/8/2015**	**45**	**TRUE**
GWC-17	**6/13/2016**	**41**	**TRUE**

GWC-17	**6/14/2017**	**8.4**	**TRUE**
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GWC-17	**6/19/2018**	**4.7**	**TRUE**
GWC-17	**12/19/2018**	**8.7**	**TRUE**
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GWC-17	6/23/2020	ND<2	FALSE
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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**
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GWC-18	**12/9/2019**	**30**	**TRUE**
GWC-18	**6/23/2020**	**10**	**TRUE**
GWC-18	**12/15/2020**	**26**	**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**
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GWC-22	6/15/2016	ND<2	FALSE
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GWC-22	12/11/2019	ND<2	FALSE
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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-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	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-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE

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-24	**6/24/2020**	**3**	**TRUE**
GWC-24	**12/15/2020**	**3.5**	**TRUE**

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-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	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-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE

GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
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
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE

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-14A	**6/24/2020**	**62**	**TRUE**
GWC-14A	**12/15/2020**	**69**	**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**
GWC-14R	**6/12/2019**	**21**	**TRUE**
GWC-14R	**12/10/2019**	**19**	**TRUE**
GWC-14R	**6/23/2020**	**26**	**TRUE**
GWC-14R	**12/17/2020**	**28**	**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-15	**6/25/2020**	**110**	**TRUE**
GWC-15	**12/17/2020**	**110**	**TRUE**

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-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE

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-8R	**6/23/2020**	**27**	**TRUE**
GWC-8R	**12/15/2020**	**30**	**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-16A	**6/23/2020**	**2.2**	**TRUE**
GWC-16A	**12/17/2020**	**2.3**	**TRUE**

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-14	6/24/2020	ND<2	FALSE
GWC-14	12/17/2020	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
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GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
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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-3	6/24/2020	ND<2	FALSE
GWC-3	12/16/2020	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
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	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
GWC-4	6/23/2020	ND<2	FALSE
GWC-4	12/17/2020	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
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-4A	6/23/2020	ND<2	FALSE
GWC-4A	12/17/2020	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-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	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-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
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-8A	**6/23/2020**	**23**	**TRUE**
GWC-8A	**12/15/2020**	**31**	**TRUE**

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 91.1839%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	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
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-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	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-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	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
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GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE
GWC-11	12/15/2020	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
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	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-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	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-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	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-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
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**
GWC-18	**6/23/2020**	**5.7**	**TRUE**
GWC-18	**12/15/2020**	**6.4**	**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
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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-19R	6/23/2020	ND<2	FALSE
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GWC-22	6/22/2015	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
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GWC-23	12/16/2020	ND<2	FALSE
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GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
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GWC-24	12/7/2016	ND<2	FALSE
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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-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	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
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GWC-14A	6/11/2019	ND<2	FALSE
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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**
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GWC-14R	6/20/2018	2	FALSE
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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-15	**6/25/2020**	**48**	**TRUE**
GWC-15	**12/17/2020**	**19**	**TRUE**

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GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
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GWC-8	12/12/2017	ND<2	FALSE
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GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE

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GWC-8R	6/15/2016	ND<2	FALSE
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GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE

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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**
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GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	ND<2	FALSE

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GWC-14	6/15/2016	ND<2	FALSE
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GWC-2	6/14/2016	ND<2	FALSE
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GWC-8A	12/15/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Toluene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4962%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
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GWC-15	6/19/2018	ND<2	FALSE

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GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	6/25/2020	ND<2	FALSE
GWC-15	12/17/2020	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-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	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
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GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	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-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	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-14	6/24/2020	ND<2	FALSE
GWC-14	12/17/2020	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
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GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	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-3	6/24/2020	ND<2	FALSE
GWC-3	12/16/2020	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
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	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
GWC-4	6/23/2020	ND<2	FALSE
GWC-4	12/17/2020	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
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
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GWC-4A	12/17/2020	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-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	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-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	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-8A	6/23/2020	ND<2	FALSE
GWC-8A	12/15/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 89.4207%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	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
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-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
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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
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GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
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GWC-11	6/14/2016	ND<2	FALSE
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GWC-12	6/19/2018	ND<2	FALSE
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GWC-18	**12/6/2016**	**2.3**	**TRUE**
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GWC-18	**12/13/2017**	**2.3**	**TRUE**
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GWC-18	6/11/2019	ND<2	FALSE
GWC-18	**12/9/2019**	**2.6**	**TRUE**
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	**12/15/2020**	**2.4**	**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
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GWC-19R	6/14/2017	ND<2	FALSE
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GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
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GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
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GWC-23A	12/11/2017	ND<2	FALSE
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GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
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GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	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
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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-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE

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GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
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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
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE

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-14A	6/24/2020	ND<2	FALSE
GWC-14A	12/15/2020	ND<2	FALSE

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**
GWC-14R	**6/12/2019**	**4.7**	**TRUE**
GWC-14R	**12/10/2019**	**4.3**	**TRUE**
GWC-14R	**6/23/2020**	**4.3**	**TRUE**
GWC-14R	**12/17/2020**	**3.9**	**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-15	**6/25/2020**	**90**	**TRUE**
GWC-15	**12/17/2020**	**45**	**TRUE**

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
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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-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE

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-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	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-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	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-14	6/24/2020	ND<2	FALSE
GWC-14	12/17/2020	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-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
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GWC-3	6/21/2018	ND<2	FALSE
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GWC-3	6/24/2020	ND<2	FALSE
GWC-3	12/16/2020	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
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GWC-3A	6/11/2019	ND<2	FALSE
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GWC-3A	6/24/2020	ND<2	FALSE
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GWC-4	12/17/2020	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
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GWC-4A	6/13/2017	ND<2	FALSE

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GWC-4A	12/11/2019	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-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	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
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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-8A	6/23/2020	ND<2	FALSE
GWC-8A	12/15/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Vinyl chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 96.2217%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
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-10	6/24/2020	ND<2	FALSE
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GWC-18	6/23/2020	ND<2	FALSE
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GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE

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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-14A	**6/24/2020**	**7.5**	**TRUE**
GWC-14A	**12/15/2020**	**11**	**TRUE**

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GWC-14R	6/23/2020	ND<2	FALSE
GWC-14R	12/17/2020	ND<2	FALSE

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GWC-15	6/15/2016	ND<2	FALSE
GWC-15	**12/8/2016**	**2.3**	**TRUE**
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GWC-15	12/17/2020	ND<2	FALSE

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GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
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GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
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GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**4.8**	**TRUE**
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GWC-16A	12/17/2020	ND<2	FALSE

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GWC-14	12/17/2020	ND<2	FALSE

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GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
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GWC-5	6/12/2017	ND<2	FALSE
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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-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	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-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	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-8A	6/23/2020	ND<2	FALSE
GWC-8A	12/15/2020	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 33.2418%
Background measurements (n) = 24
Maximum Background Concentration = 39.5
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-1A	6/23/2020	30.3	FALSE
GWA-1A	12/17/2020	31.9	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
GWA-3	6/23/2020	ND<20	FALSE
GWA-3	12/17/2020	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
GWC-10	6/25/2020	ND<20	FALSE
GWC-10	12/16/2020	ND<20	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
GWC-10A	12/13/2019	35.2	FALSE
GWC-10A	6/25/2020	29.6	FALSE
GWC-10A	12/16/2020	32.5	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-11	6/25/2020	25.9	FALSE
GWC-11	12/16/2020	25.4	FALSE
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-12	6/25/2020	ND<20	FALSE
GWC-12	12/22/2020	22.6	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-12A	6/25/2020	ND<20	FALSE
GWC-12A	12/16/2020	ND<20	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-13	6/24/2020	ND<20	FALSE
GWC-13	12/16/2020	ND<20	FALSE
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-17	6/24/2020	30.9	FALSE
GWC-17	**12/16/2020**	**40.7**	**TRUE**
GWC-18	**6/23/2015**	**220**	**TRUE**
GWC-18	**12/10/2015**	**140**	**TRUE**
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-18	**6/24/2020**	**168**	**TRUE**
GWC-18	**12/16/2020**	**160**	**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**
GWC-19R	**12/19/2018**	**160**	**TRUE**
GWC-19R	**6/12/2019**	**97**	**TRUE**
GWC-19R	**12/10/2019**	**89.2**	**TRUE**
GWC-19R	**6/24/2020**	**83**	**TRUE**
GWC-19R	**12/16/2020**	**76.5**	**TRUE**
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-22	6/24/2020	22.1	FALSE
GWC-22	12/18/2020	20.4	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
GWC-23	6/24/2020	ND<20	FALSE
GWC-23	12/17/2020	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-23A	6/24/2020	ND<20	FALSE
GWC-23A	12/17/2020	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
GWC-24	6/25/2020	25.8	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
GWC-6	6/25/2020	ND<20	FALSE

GWC-6	12/18/2020	ND<20	FALSE
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-9	**6/25/2020**	**78.5**	**TRUE**
GWC-9	**12/18/2020**	**90**	**TRUE**
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-16A	6/23/2020	23.6	FALSE
GWC-16A	12/17/2020	25.2	FALSE
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-14	6/25/2020	ND<20	FALSE
GWC-14	**12/18/2020**	**72.2**	**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-14A	**6/24/2020**	**171**	**TRUE**
GWC-14A	**12/16/2020**	**171**	**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-15	**6/25/2020**	**62.7**	**TRUE**
GWC-15	**12/17/2020**	**54.7**	**TRUE**
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
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	30	FALSE
GWC-8	12/12/2019	28.6	FALSE
GWC-8	**6/24/2020**	**52.4**	**TRUE**
GWC-8	12/17/2020	33	FALSE
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-8A	**6/24/2020**	**43.9**	**TRUE**
GWC-8A	**12/16/2020**	**46.8**	**TRUE**
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
GWC-2	6/13/2019	ND<20	FALSE
GWC-2	12/11/2019	ND<20	FALSE
GWC-2	6/23/2020	27.5	FALSE
GWC-2	12/17/2020	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
GWC-3	6/25/2020	ND<20	FALSE
GWC-3	12/17/2020	ND<20	FALSE
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**
GWC-3A	6/25/2020	37.1	FALSE
GWC-3A	12/17/2020	31.6	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
GWC-4	6/24/2020	25.6	FALSE
GWC-4	12/18/2020	31.5	FALSE
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-4A	6/24/2020	29.9	FALSE
GWC-4A	12/18/2020	30.5	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
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
GWC-5	6/24/2020	ND<20	FALSE
GWC-5	12/18/2020	ND<20	FALSE

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**
GWC-7	6/25/2020	36.4	FALSE
GWC-7	12/18/2020	38.8	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.6264%
Background measurements (n) = 24
Maximum Background Concentration = 10
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-1A	6/23/2020	ND<10	FALSE
GWA-1A	12/17/2020	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
GWA-3	6/23/2020	ND<10	FALSE
GWA-3	12/17/2020	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
GWC-10	6/25/2020	ND<10	FALSE
GWC-10	12/16/2020	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
GWC-10A	12/13/2019	ND<10	FALSE
GWC-10A	6/25/2020	ND<10	FALSE
GWC-10A	12/16/2020	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
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GWC-11	6/25/2020	ND<10	FALSE
GWC-11	12/16/2020	ND<10	FALSE
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GWC-13	6/16/2016	ND<10	FALSE

GWC-13	12/8/2016	ND<10	FALSE
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GWC-22	6/15/2017	ND<10	FALSE

GWC-22	12/12/2017	ND<10	FALSE
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GWC-22	12/12/2019	ND<10	FALSE
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GWC-23	12/9/2015	ND<10	FALSE
GWC-23	6/16/2016	ND<10	FALSE
GWC-23	**12/7/2016**	**11**	**TRUE**
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GWC-23	6/19/2018	ND<10	FALSE
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GWC-23	6/24/2020	ND<10	FALSE
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GWC-24	6/25/2020	ND<10	FALSE
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GWC-6	6/13/2017	ND<10	FALSE
GWC-6	12/14/2017	ND<10	FALSE
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GWC-6	6/13/2019	ND<10	FALSE
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GWC-6	6/25/2020	ND<10	FALSE

GWC-6	12/18/2020	ND<10	FALSE
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GWC-9	12/9/2015	ND<10	FALSE
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GWC-14	12/18/2020	ND<10	FALSE
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GWC-14A	6/24/2020	ND<10	FALSE
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GWC-15	6/16/2016	ND<10	FALSE
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GWC-2	12/17/2020	ND<10	FALSE
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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
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GWC-3	6/25/2020	ND<10	FALSE
GWC-3	12/17/2020	ND<10	FALSE
GWC-3A	6/25/2015	ND<10	FALSE
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GWC-4	12/18/2020	ND<10	FALSE
GWC-4A	6/25/2015	ND<10	FALSE
GWC-4A	**12/10/2015**	**11**	**TRUE**
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GWC-4A	**12/13/2017**	**19**	**TRUE**
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GWC-4A	12/18/2018	ND<10	FALSE
GWC-4A	**6/12/2019**	**26**	**TRUE**
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GWC-4A	12/18/2020	ND<10	FALSE
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GWC-5	6/21/2018	ND<10	FALSE
GWC-5	12/19/2018	ND<10	FALSE
GWC-5	6/13/2019	ND<10	FALSE
GWC-5	12/11/2019	ND<10	FALSE
GWC-5	6/24/2020	ND<10	FALSE
GWC-5	12/18/2020	ND<10	FALSE

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GWC-7	6/16/2016	ND<10	FALSE
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GWC-7	6/13/2017	ND<10	FALSE
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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
GWC-7	6/25/2020	ND<10	FALSE
GWC-7	12/18/2020	ND<10	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.1319%
Background measurements (n) = 24
Maximum Background Concentration = 40
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-1A	6/23/2020	ND<40	FALSE
GWA-1A	12/17/2020	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
GWA-3	6/23/2020	ND<40	FALSE
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GWC-10A	6/16/2017	ND<40	FALSE
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GWC-12A	12/16/2020	ND<40	FALSE
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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
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GWC-18	12/7/2016	ND<40	FALSE
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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-18	6/24/2020	ND<40	FALSE
GWC-18	12/16/2020	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**
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GWC-19R	6/15/2017	ND<40	FALSE
GWC-19R	12/14/2017	ND<40	FALSE
GWC-19R	6/20/2018	ND<40	FALSE
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-19R	6/24/2020	ND<40	FALSE
GWC-19R	12/16/2020	ND<40	FALSE
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GWC-22	12/10/2015	ND<40	FALSE
GWC-22	6/16/2016	ND<40	FALSE
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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-22	6/24/2020	ND<40	FALSE
GWC-22	12/18/2020	ND<40	FALSE
GWC-23	6/23/2015	ND<40	FALSE
GWC-23	12/9/2015	ND<40	FALSE
GWC-23	6/16/2016	ND<40	FALSE
GWC-23	12/7/2016	ND<40	FALSE
GWC-23	6/15/2017	ND<40	FALSE
GWC-23	12/12/2017	ND<40	FALSE
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
GWC-23	6/24/2020	ND<40	FALSE
GWC-23	12/17/2020	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
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GWC-23A	6/15/2017	ND<40	FALSE
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GWC-23A	6/19/2018	ND<40	FALSE
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GWC-23A	12/17/2020	ND<40	FALSE
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GWC-24	6/25/2020	ND<40	FALSE
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GWC-6	6/21/2018	ND<40	FALSE
GWC-6	12/20/2018	ND<40	FALSE
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GWC-6	12/11/2019	ND<40	FALSE
GWC-6	6/25/2020	ND<40	FALSE

GWC-6	12/18/2020	ND<40	FALSE
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GWC-9	**6/15/2016**	**50**	**TRUE**
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GWC-9	6/16/2017	ND<40	FALSE
GWC-9	12/14/2017	ND<40	FALSE
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GWC-9	6/25/2020	ND<40	FALSE
GWC-9	12/18/2020	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**
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GWC-16A	6/21/2018	ND<40	FALSE
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GWC-16A	6/13/2019	ND<40	FALSE
GWC-16A	12/12/2019	ND<40	FALSE
GWC-16A	6/23/2020	ND<40	FALSE
GWC-16A	12/17/2020	ND<40	FALSE
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-14	**6/25/2020**	**95.1**	**TRUE**
GWC-14	**12/18/2020**	**55.5**	**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-14A	**6/24/2020**	**301**	**TRUE**
GWC-14A	**12/16/2020**	**298**	**TRUE**
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
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GWC-15	6/11/2019	ND<40	FALSE
GWC-15	12/10/2019	ND<40	FALSE
GWC-15	6/25/2020	ND<40	FALSE
GWC-15	12/17/2020	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
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-8	6/24/2020	ND<40	FALSE
GWC-8	12/17/2020	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**
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GWC-8A	12/13/2017	ND<40	FALSE
GWC-8A	6/21/2018	ND<40	FALSE
GWC-8A	12/20/2018	ND<40	FALSE
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GWC-8A	6/24/2020	ND<40	FALSE
GWC-8A	12/16/2020	ND<40	FALSE
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GWC-2	12/11/2019	ND<40	FALSE
GWC-2	6/23/2020	ND<40	FALSE
GWC-2	12/17/2020	ND<40	FALSE
GWC-3	6/25/2015	ND<40	FALSE
GWC-3	12/10/2015	ND<40	FALSE
GWC-3	6/15/2016	ND<40	FALSE
GWC-3	6/21/2018	ND<40	FALSE
GWC-3	12/18/2018	ND<40	FALSE

GWC-3	6/12/2019	ND<40	FALSE
GWC-3	12/11/2019	ND<40	FALSE
GWC-3	6/25/2020	ND<40	FALSE
GWC-3	12/17/2020	ND<40	FALSE
GWC-3A	6/25/2015	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
GWC-3A	6/25/2020	ND<40	FALSE
GWC-3A	12/17/2020	ND<40	FALSE
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GWC-4	6/17/2016	ND<40	FALSE
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GWC-4	12/18/2020	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
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GWC-4A	12/13/2017	ND<40	FALSE
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GWC-5	12/19/2018	ND<40	FALSE
GWC-5	6/13/2019	ND<40	FALSE
GWC-5	12/11/2019	ND<40	FALSE
GWC-5	6/24/2020	ND<40	FALSE
GWC-5	12/18/2020	ND<40	FALSE

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GWC-7	12/9/2016	ND<40	FALSE
GWC-7	6/13/2017	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
GWC-7	6/25/2020	ND<40	FALSE
GWC-7	12/18/2020	ND<40	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Nickel

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.3297%
Background measurements (n) = 24
Maximum Background Concentration = 20
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
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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-1A	6/23/2020	ND<20	FALSE
GWA-1A	12/17/2020	ND<20	FALSE
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GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
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GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	ND<20	FALSE
GWA-3	6/23/2020	ND<20	FALSE
GWA-3	12/17/2020	ND<20	FALSE
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GWC-17	12/16/2020	ND<20	FALSE
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GWC-18	**6/15/2017**	**34**	**TRUE**
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GWC-18	12/19/2018	ND<20	FALSE
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GWC-18	**12/10/2019**	**29.8**	**TRUE**
GWC-18	6/24/2020	ND<20	FALSE
GWC-18	12/16/2020	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
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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-23	6/24/2020	ND<20	FALSE
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GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	ND<20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
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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
GWC-6	6/25/2020	ND<20	FALSE

GWC-6	12/18/2020	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
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GWC-9	6/21/2018	ND<20	FALSE
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GWC-9	6/13/2019	ND<20	FALSE
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GWC-9	6/25/2020	ND<20	FALSE
GWC-9	12/18/2020	ND<20	FALSE
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GWC-14	12/11/2019	ND<20	FALSE
GWC-14	6/25/2020	ND<20	FALSE
GWC-14	12/18/2020	ND<20	FALSE
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-14A	**6/24/2020**	**22.2**	**TRUE**
GWC-14A	**12/16/2020**	**23.6**	**TRUE**
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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-15	6/25/2020	ND<20	FALSE
GWC-15	12/17/2020	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
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-8	6/24/2020	ND<20	FALSE
GWC-8	12/17/2020	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-8A	6/24/2020	ND<20	FALSE
GWC-8A	12/16/2020	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
GWC-2	6/13/2019	ND<20	FALSE
GWC-2	12/11/2019	ND<20	FALSE
GWC-2	6/23/2020	ND<20	FALSE
GWC-2	12/17/2020	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
GWC-3	6/25/2020	ND<20	FALSE
GWC-3	12/17/2020	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
GWC-3A	6/25/2020	ND<20	FALSE
GWC-3A	12/17/2020	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
GWC-4	6/24/2020	ND<20	FALSE
GWC-4	12/18/2020	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-4A	6/24/2020	ND<20	FALSE
GWC-4A	12/18/2020	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
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
GWC-5	6/24/2020	ND<20	FALSE
GWC-5	12/18/2020	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
GWC-7	6/25/2020	ND<20	FALSE
GWC-7	12/18/2020	ND<20	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70.6044%
Background measurements (n) = 24
Maximum Background Concentration = 48
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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-1A	6/23/2020	ND<20	FALSE
GWA-1A	12/17/2020	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**
GWA-3	6/23/2020	20.3	FALSE
GWA-3	12/17/2020	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**
GWC-10	6/25/2020	27.9	FALSE
GWC-10	12/16/2020	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	38	FALSE
GWC-10A	6/11/2019	ND<20	FALSE
GWC-10A	12/13/2019	31.2	FALSE
GWC-10A	6/25/2020	ND<20	FALSE
GWC-10A	12/16/2020	ND<20	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-11	6/25/2020	40	FALSE
GWC-11	12/16/2020	ND<20	FALSE
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-12	6/25/2020	ND<20	FALSE
GWC-12	12/22/2020	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-12A	6/25/2020	ND<20	FALSE
GWC-12A	12/16/2020	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-13	6/24/2020	ND<20	FALSE
GWC-13	12/16/2020	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-17	6/24/2020	ND<20	FALSE
GWC-17	12/16/2020	ND<20	FALSE
GWC-18	6/23/2015	ND<20	FALSE
GWC-18	12/10/2015	ND<20	FALSE
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-18	6/24/2020	ND<20	FALSE
GWC-18	12/16/2020	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
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-19R	6/24/2020	ND<20	FALSE
GWC-19R	12/16/2020	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-22	6/24/2020	ND<20	FALSE
GWC-22	12/18/2020	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
GWC-23	6/24/2020	ND<20	FALSE
GWC-23	12/17/2020	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-23A	6/24/2020	ND<20	FALSE
GWC-23A	12/17/2020	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
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GWC-24	12/10/2019	24	FALSE
GWC-24	6/25/2020	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
GWC-6	6/25/2020	ND<20	FALSE

GWC-6	12/18/2020	ND<20	FALSE
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-9	6/25/2020	45.9	FALSE
GWC-9	12/18/2020	41.9	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-16A	6/23/2020	ND<20	FALSE
GWC-16A	12/17/2020	ND<20	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-14	6/25/2020	25.3	FALSE
GWC-14	12/18/2020	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-14A	6/24/2020	ND<20	FALSE
GWC-14A	12/16/2020	ND<20	FALSE
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-15	6/25/2020	ND<20	FALSE
GWC-15	12/17/2020	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
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-8	6/24/2020	ND<20	FALSE
GWC-8	12/17/2020	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-8A	6/24/2020	ND<20	FALSE
GWC-8A	12/16/2020	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	23	FALSE
GWC-2	6/13/2019	28	FALSE
GWC-2	12/11/2019	25	FALSE
GWC-2	6/23/2020	27.8	FALSE
GWC-2	12/17/2020	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
GWC-3	6/25/2020	ND<20	FALSE
GWC-3	12/17/2020	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	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
GWC-3A	6/25/2020	33.1	FALSE
GWC-3A	12/17/2020	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
GWC-4	6/24/2020	ND<20	FALSE
GWC-4	12/18/2020	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-4A	6/24/2020	ND<20	FALSE
GWC-4A	12/18/2020	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
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	38.3	FALSE
GWC-5	6/24/2020	ND<20	FALSE
GWC-5	12/18/2020	ND<20	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
GWC-7	6/25/2020	ND<20	FALSE
GWC-7	12/18/2020	ND<20	FALSE

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