



Forsyth County Recycling & Solid Waste Department

SAMUEL B. BUCKLES, Environmental Scientist Manager

March 13, 2024

Ms. Beverly Tipton
Georgia Department of Natural Resources
Environmental Protection Division
Solid Waste Management Program
4244 International Parkway, Suite 104
Atlanta, Georgia 30354-3906

RE: Second 2023 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 Ms. Tipton:

In accordance with the Georgia EPD Rules and Regulations for Solid Waste Management, Chapter 391-3-4, and the Site's Corrective Action Plan, 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 2023 SEMI-ANNUAL GROUNDWATER &
SURFACE WATER MONITORING REPORT**



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1.0 INTRODUCTION

On behalf of Forsyth County, Georgia, Atlantic Coast Consulting, Inc. (ACC) is providing this Semi-Annual Groundwater & Surface Water Monitoring Report for the Hightower Road Municipal Solid Waste Landfill (MSWLF). 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 during this monitoring event, determination of groundwater flow rate and direction, a summary of analytical results, and a statistical analysis of the analytical data.

2.0 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 Management 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 Georgia Rules of Solid Waste Management 391-3-4-.07(3)(v). This Semi-Annual Groundwater & Surface Water Monitoring Report is provided to document the results of the December 2023 monitoring event at the Hightower Road MSWLF. 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 Georgia Rules of Solid Waste Management, because Assessment of Corrective Measures (ACM) Studies have been completed and a Corrective Action Plan (CAP) is being implemented.

3.0 SUMMARY OF SITE

The Forsyth County Hightower Road Landfill is a closed MSWLF 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 Georgia Rule 391-3-4-.14(39) in the ACM were selected for long-term implementation at the facility. The measures consist of MNA and LFG migration control. 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 monitoring 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.

The CAP requires sampling of MNA parameters from select assessment monitoring wells on an annual basis. MNA sampling began with the second 2007 monitoring event. These MNA parameters include alkalinity (total), chloride, carbon dioxide, dissolved oxygen, ferrous iron, nitrate, oxidation-reduction potential, sulfate, and total dissolved solids. **Table A** presents a summary of the current analyte lists for all CAP-required 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 monitoring event, and subsequent reviews were completed during the second 2013, second 2016, second 2019 monitoring events. In accordance with this schedule, a CAP review was completed during the second 2022 monitoring event. The reviews are submitted to EPD as attachments to the second semi-annual groundwater monitoring reports.

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 status 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 Georgia 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.

Forsyth County is currently conducting a pilot test to evaluate the effectiveness of encapsulated potassium permanganate (KMnO₄) in reducing VOCs in groundwater near AMW-12/12R and a new pilot test is underway near PH1-GWC-3/3A. 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 first pilot test for 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. The second pilot test for this remedy is being implemented per the November 17, 2022, *Pilot Test B Work Plan*, submitted in GEOS as Submittal ID: 713601.

As part of the UIC permit requirements, quarterly reports on the pilot tests are submitted to the EPD Watershed Protection Branch. This semi-annual groundwater monitoring report, conducted under the solid waste permit, will also be submitted to the EPD Watershed Protection Branch as part of the UIC permit requirement.

A minor modification, GEOS Submittal 588643, approved by EPD September 24, 2021, was provided to update the facility environmental monitoring network to show temporary wells installed under the UIC permit and to depict the location of flare PH2-MV05 and methane barpunch location MM-11R.

3.1 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 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 referred to as the “Dahlonega Gold Belt.”

3.2 Monitoring Program

There are 13 groundwater monitoring wells and three AMW series wells utilized to monitor groundwater conditions near Phase I of the facility, and 34 monitoring 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 monitoring wells have no suffix (e.g., GWC-8), the intermediate monitoring wells have an “A” suffix (e.g., GWC-8A), and the deepest monitoring 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 are monitored semi-annually at the landfill (SWA-1, SWA-2, and SWC-1 through SWC-9). Two additional surface water sampling points, SWC-4A and SWC-4B, have been added for delineation purposes. 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 semi-annually for Appendix I VOCs for delineation purposes. **Table A** provides a summary of surface water sampling requirements.

During the first semi-annual monitoring event, assessment monitoring wells are sampled for Appendix II VOCs and Appendix I metals, select wells for Appendix II VOCs and semi-VOCs, and detection monitoring wells are sampled for Appendix I parameters as listed in **Table A**. During the second semi-annual monitoring event, assessment monitoring wells are sampled for Appendix I parameters plus any verified Appendix II analytes and detection monitoring wells are sampled for Appendix I parameters. Once every three years, assessment monitoring wells are sampled for the full Appendix II analyte list; and monitoring wells were last sampled for the full Appendix II analyte list during the June 2022 monitoring event. The next triennial monitoring event is scheduled for June 2025. Select AMW series wells are sampled and analyzed for Appendix I VOCs or Appendix II VOCs and Appendix I metals as warranted by the data (i.e., to provide delineation) and are sampled for the required parameters listed in **Table A**. Any Appendix II constituents that become verified in an assessment well are added to the analyte list for that well during the second semi-annual monitoring event.

As described in the July 26, 2013, *Response to EPD Comments*, the landfill has redundant monitoring in the saprolite/bedrock aquifer as these two zones were 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

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. Per Georgia Rule 391-3-4-.14(32), alternate GWPS were established in the ACM for analytes that have no established MCL.

3.3 Purging and Sampling Procedures

All samples were collected in accordance with the EPD-approved groundwater monitoring plan for Forsyth County Hightower Road MSWLF. 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-3A, PH1-GWC-2, GWA-1A, GWC-4A, GWC-8R, GWC-14R, and AMW-1 and a Grundfos stainless steel submersible pump, peristaltic pump, or bladder pump with disposable Teflon® lined tubing was utilized for these locations (**Table 1**).
- 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 or Appendix II VOCs, as appropriate.
- 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), **Table 4** (Metals), and **Table 4a** (MNA Parameters).

3.4 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) constituents as listed in 40 Code of Federal Regulations (CFR) Part 258, Subpart E, 56 Fed. Reg. 51032-51039 (October 9, 1991), and Georgia 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.

3.5 Laboratory Certification

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

4.0 DISCUSSION OF SAMPLING RESULTS

Samples from the second 2023 semi-annual monitoring event were collected December 11-14, 2023, and were analyzed by AES of Atlanta, Georgia. Samples were collected and analyzed from detection and assessment monitoring wells for Appendix I and/or Appendix II parameters during this monitoring event as detailed in **Table A**. Monitoring well GWC-15 had an obstruction preventing it from being sampled and GWC-16A purged dry and did not recharge; therefore, the respective surrogate wells were sampled. Wells PH1-GWC-4, GWC-3, GWC-17, and AMW-13 purged dry and could not be sampled. GWC-14 purged dry and had only VOC sample volume collected. Note that GWC-3 has an adjacent, deeper well GWC-3A, GWC-17 has a downgradient well, GWC-24 within the relevant point of compliance, where GWC-24 is inside the property line.

4.1 Groundwater

An evaluation of the December 2023 semi-annual groundwater sampling results indicates that one or more VOCs were detected in 11 groundwater monitoring well samples and three AMW series well samples as summarized on **Table 3**. The concentrations of five organic compounds in one or more assessment monitoring well samples were above the respective GWPS: chloroethane, cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. A summary of organic detections is presented below.

- All but one of the verified, detected VOCs were in samples from assessment monitoring wells or AMW series wells. A verified detection of cis-1,2-DCE reoccurred in detection monitoring well GWC-8 during this sampling event and is discussed further in the *Statistical Analysis* report section.
- The concentration of PCE in the sample from PH1-GWC-3 (6.3 µg/L) and TCE in the sample from PH1-GWC-3A (7.4 µg/L) were above the respective GWPS (5 µg/L).
- The verified concentrations of chloroethane (5.5 µg/L), cis-1,2-DCE (82 µg/L), and vinyl chloride (16 µg/L) in the sample from GWC-14A were above the GWPS (4.6, 70, and 2 µg/L, respectively). These compounds were not detected in GWC-13 (downgradient of GWC-14A) nor GWC-14 (shallower).

The VOCs detected during the second 2023 monitoring event are being addressed by the remedies in the CAP. Overall, the 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 like 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 10 during the second 2023 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 eight during the second 2023 event.

A summary of metals detected during this event is presented in **Table 4**. Appendix I metals barium, chromium, cobalt, nickel, and zinc were detected in one or more groundwater monitoring well samples. Low levels of barium were detected in most groundwater samples, while chromium, cobalt, nickel, and zinc were detected less often. These metals are considered

naturally occurring in site soils. All detected groundwater metals concentrations were less than their respective GWPS.

4.2 Performance Monitoring

In accordance with the CAP, a corrective measures status evaluation (CMSE) report is completed triennially. The next CMSE will be submitted in conjunction with the report for the second 2025 groundwater monitoring event.

4.3 Hydraulic Gradient and Groundwater Flow Velocity

The December 2023 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 143 feet per year. The groundwater flow direction is to the northeast and northwest (in a sub-radial pattern) as depicted in **Figure 1**.

4.4 Surface Water

Eleven surface water sampling points are monitored semi-annually at the landfill. Two additional surface water sampling points, SWC-4A and SWC-4B, have been added for delineation purposes. All surface water sampling locations are listed in **Table A** and are depicted on **Figure 1**. Surface water samples are analyzed for permit-required parameters COD, total cyanide, total organic carbon, chloride, and metals (**Table A**). Low-level concentrations of total organic carbon, chloride, and/or barium, were detected in one or more samples (**Table 6**).

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 added¹ to SWC-6 (see **Table A**). Additionally, 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**. These surface water locations are monitored 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.

5.0 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.

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.

5.1 Statistical Methodology

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 Georgia 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 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 MSWLF and Phase III MSWLF. 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, statistical analysis is performed using data after capping was completed as a conservative measure. 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.

For confirmed SSIs calculated using the methodology above, that are also at a concentration above the relevant GWPS, confidence limits are calculated to determine if the 95% lower confidence limit (LCL) is above the GWPS. In accordance with the *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance (March 2009)*, the confidence limits are compared to the GWPS, and a statistically significant level (SSL) is identified when the 95% LCL is above the GWPS.

5.2 Statistical Results

Kruskal-Wallis non-parametric ANOVA and NPTI statistical tests are included in **Attachment B**. The monitoring wells with concentrations identified as an SSI over background for the current event as determined by the Kruskal-Wallis ANOVA and the NPTI methods are listed in **Table 7**. The monitoring wells with identified SSIs over background and concentrations above a GWPS are evaluated to determine if concentrations are SSLs. **Table 8** summarizes this information in the GEOS data entry screen for each semi-annual event. Sixteen monitoring wells had one or more SSIs during this event, and four monitoring wells had SSIs identified for analyte concentrations that were above the respective GWPS (see **Table 7**). All 11 monitoring wells with VOC SSIs or SSLs are currently in assessment monitoring and are addressed by the CAP remedies. The verified detection of cis-1,2-DCE in detection well GWC-8 does not constitute an SSI as determined by the methods described above.

Five monitoring wells with metals SSIs are in the detection monitoring program. The detection monitoring wells with SSIs were triggered by low levels of barium. The current concentrations of barium are typical of unimpacted groundwater in the region, and concentrations are well below the respective GWPS. It is recommended that these five monitoring wells remain in detection monitoring (**Table A**).

6.0 SUMMARY AND RECOMMENDATIONS

The results of the data evaluated from the December 2023 sampling event are summarized below:

- Groundwater flows, in a sub-radial pattern, towards the northeast and northwest, at a calculated rate of approximately 143 feet per year.
- VOCs at concentrations above respective GWPS in network wells are limited to those in assessment monitoring status. The low-level detection of cis-1,2-DCE in GWC-8 was not identified as an SSI. 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 naturally occurring.
- There were SSIs for VOC and metals concentrations in samples from assessment monitoring wells. The only SSIs for wells currently in detection monitoring were for low-level concentrations of barium (PH1-GWA-1A, PH1-GWB-1, PH1-GWC-1, GWC-1, and GWC-9), all below the GWPS; these detections in groundwater are attributed to natural occurrence due to the presence in regional soils.
- 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 10 during the second 2023 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 eight during the second 2023 event.

Forsyth County will continue implementing the EPD-approved monitoring and corrective action program at the Hightower Road MSWLF. The next semi-annual monitoring event is scheduled for June 2024.

TABLES

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

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

Notes:

1. App I = Appendix I VOCs and metals.
2. App II = Appendix II VOCs and metals, SVOCs, pesticides/PCBs, herbicides, cyanide, sulfide.
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 2025 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: alkalinity (total), carbon dioxide, chloride, dissolved oxygen, ferrous iron, nitrate, sulfate, oxidation-reduction potential, and total dissolved solids.

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

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

Notes:

1. App I = Appendix I VOCs and metals.
2. App II = Appendix II VOCs and metals, SVOCs, pesticides/PCBs, herbicides, cyanide, sulfide.
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 2025 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: alkalinity (total), carbon dioxide, chloride, dissolved oxygen, ferrous iron, nitrate, sulfate, oxidation-reduction potential, and total dissolved solids.

Table 1
Summary of Water Quality Parameters
Forsyth County - Hightower Road MSWLF
December 2023 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)
Phase I Groundwater Locations					
PH1-GWA-1	Bailer	5.42	88	14.4	17.2
PH1-GWA-1A	Bailer	6.00	65	13.1	6.5
PH1-GWA-2	Bailer	5.53	86	15.0	23.1
PH1-GWA-3A	Sub. Pump	6.65	48	15.3	0.8
PH1-GWA-4	Bailer	5.61	23	14.5	18.0
PH1-GWB-1	Bailer	5.01	30	13.1	8.8
PH1-GWB-2	Bailer	5.55	60	12.0	18.4
PH1-GWC-1	Bailer	6.13	198	15.7	2.1
PH1-GWC-2	Sub. Pump	6.38	164	17.4	44
PH1-GWC-3	Bailer	5.11	247	14.8	1.4
PH1-GWC-3A	Bailer	6.09	198	16.0	3.7
PH1-GWC-4	Bailer	PURGED DRY			
GWC-1	Bailer	5.10	61	14.0	1.7
AMW-9	Bailer	5.57	23	13.1	NA
Phase II, III, and IV Groundwater Locations					
GWA-1	Bailer	4.63	196	11.3	14.4
GWA-1A	Sub. Pump	5.92	133	14.2	8.6
GWA-2	Bailer	5.30	38	12.2	8.1
GWA-3	Bailer	5.20	24	14.4	5.8
GWC-2	Bailer	5.16	82	13.0	9.9
GWC-3	Bailer	PURGED DRY			
GWC-3A	Bailer	5.07	70	12.8	2.0
GWC-4	Bailer	5.23	37	14.0	0.4
GWC-4A	Sub. Pump	6.06	151	14.5	48
GWC-5	Bailer	5.05	31.8	13.3	7.0
GWC-6	Bailer	6.04	80	11.6	4.2
GWC-7	Bailer	5.06	81.6	13.3	2.7
GWC-8	Bailer	5.51	96	15.5	38.2
GWC-8A	Bailer	5.97	239	16.4	27.9
GWC-8R	Sub. Pump	6.34	254	15.1	17.4
GWC-9	Bailer	4.93	181	14.4	8.4
GWC-10	Bailer	4.99	38	14.7	87.8
GWC-10A	Bailer	5.16	56	13.6	15.4
GWC-11	Bailer	4.96	29	14.1	8.1
GWC-12	Bailer	4.29	46	14.5	5.2
GWC-12A	Bailer	4.60	26	14.6	17.2
GWC-13	Bailer	4.06	242	12.9	8.7
GWC-14	Bailer	5.06	36	14.4	NA
GWC-14A	Bailer	5.77	374	15.4	17.2
GWC-14R	Sub. Pump	6.20	269	13.2	4.2

Notes: Groundwater samples collected December 11-14, 2023.

Acronyms: µS/cm = microSiemens/centimeter
 NTU = Nephelometric Turbidity Units
 NA = Not Available

S.U. = Standard Units
 °C = Degrees Celsius

Table 1 (Continued)
Summary of Water Quality Parameters
Forsyth County - Hightower Road MSWLF
December 2023 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)
Phase II, III, and IV Groundwater Locations (Continued)					
GWC-15	Obstruction in well - Refer to Surrogate AMW-1				
GWC-16A	Refer to Surrogate AMW-2				
GWC-17	Bailer	PURGED DRY			
GWC-18	Bailer	5.30	107	12.0	21.8
GWC-19R	Bailer	5.24	238	10.2	6.1
GWC-22	Bailer	5.47	62	14.4	5.5
GWC-23	Bailer	4.80	227	12.4	4.8
GWC-23A	Bailer	5.47	29	13.6	1.4
GWC-24	Bailer	5.85	53	15.3	8.0
AMW-1	Sub. Pump	5.63	157	15.5	5.2
AMW-2	Bailer	5.89	169	14.6	6.3
AMW-4	Bailer	5.53	101	13.6	30.1
AMW-5	Bailer	5.72	86	14.4	154
AMW-12	Bailer	5.92	32	15.4	861
AMW-12R	Bailer	6.21	53	14.7	74.1
AMW-13	Bailer	PURGED DRY			
AMW-14	Bailer	5.77	89	14.3	26.1

Notes: Groundwater samples collected December 11-14, 2023.

Acronyms: µS/cm = microSiemens/centimeter
 NTU = Nephelometric Turbidity Units

S.U. = Standard Units
 °C = Degrees Celsius

Table 2
Summary of Groundwater Elevation Data
Forsyth County - Hightower Road MSWLF
December 2023 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 Groundwater Locations				
PH1-GWA-1	48.66	1176.37	44.96	1131.41
PH1-GWA-1A	108.00	1176.35	45.26	1131.09
PH1-GWA-2	53.60	1183.40	41.00	1142.40
PH1-GWA-3A	250.00	1187.16	40.70	1146.46
PH1-GWA-4	57.00	1191.14	41.49	1149.65
PH1-GWB-1	53.80	1179.10	44.97	1134.13
PH1-GWB-2	42.22	1155.04	35.17	1119.87
PH1-GWC-1	23.79	1074.66	9.27	1065.39
PH1-GWC-2	127.61	1103.93	24.79	1079.14
PH1-GWC-3	23.42	1096.96	12.48	1084.48
PH1-GWC-3A	55.42	1096.28	11.36	1084.92
PH1-GWC-4	33.71	1124.26	32.93	1091.33
GWC-1	38.80	1102.25	30.18	1072.07
AMW-8	50.40	1186.23	44.00	1142.23
AMW-9	41.69	1162.64	40.80	1121.84
AMW-10	56.81	1180.73	52.45	1128.28
Phase II, III, and IV Groundwater Locations				
GWA-1	62.85	1187.70	58.75	1128.95
GWA-1A	141.00	1187.49	58.79	1128.70
GWA-2	52.18	1137.30	43.29	1094.01
GWA-3	48.86	1154.53	44.40	1110.13
GWC-2	55.61	1103.64	47.40	1056.24
GWC-3	39.71	1092.39	37.13	1055.26
GWC-3A	68.95	1094.67	36.33	1058.34
GWC-4	49.81	1132.82	36.28	1096.54
GWC-4A	89.23	1132.39	42.78	1089.61
GWC-5	49.91	1084.55	45.88	1038.67
GWC-6	34.52	1064.01	25.47	1038.54
GWC-7	54.21	1093.44	44.54	1048.90
GWC-8	27.53	1095.63	27.72	1067.91
GWC-8A	46.71	1095.44	24.30	1071.14
GWC-8R	94.67	1098.40	27.55	1070.85
GWC-9	60.50	1093.58	51.35	1042.23
GWC-10	37.51	1068.56	28.80	1039.76

Notes: Depths to water measured December 11, 2023.

Acronyms: ft BTOC = feet below top of casing
ft MSL = feet Mean Sea Level
TOC = top of casing
NA = Not Available

Table 2 (Continued)
Summary of Groundwater Elevation Data
Forsyth County - Hightower Rd MSWLF
December 2023 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, III, and IV Groundwater Locations (Continued)				
GWC-10A	54.30	1066.45	28.35	1038.10
GWC-11	46.80	1054.08	36.60	1017.48
GWC-12	40.06	1038.06	33.40	1004.66
GWC-12A	49.44	1038.09	34.50	1003.59
GWC-13	44.95	1090.82	36.15	1054.67
GWC-14	28.37	1089.49	25.68	1063.81
GWC-14A	64.75	1089.32	26.83	1062.49
GWC-14R	93.61	1078.60	16.88	1061.72
GWC-15	62.84	1125.68	61.25	1064.43
GWC-16A	51.05	1136.49	DRY	NA
GWC-17	21.59	1107.78	18.16	1089.62
GWC-18	52.70	1094.87	45.87	1049.00
GWC-19R	39.87	1105.79	32.85	1072.94
GWC-22	35.05	1079.01	23.85	1055.16
GWC-23	32.22	1079.06	20.16	1058.90
GWC-23A	61.67	1079.10	18.65	1060.45
GWC-24	44.09	1102.32	38.85	1063.47
AMW-1	180.70	1130.04	64.50	1065.54
AMW-2	150.00	1101.96	48.78	1053.18
AMW-3	31.30	1041.09	10.71	1030.38
AMW-4	18.80	1040.09	4.82	1035.27
AMW-5	23.06	1049.32	8.58	1040.74
AMW-11R	58.10	1053.63	11.80	1041.83
AMW-12	19.56	1056.85	8.98	1047.87
AMW-12R	46.43	1056.34	10.66	1045.68
AMW-13	36.18	1093.09	35.94	1057.15
AMW-14	21.70	1052.73	10.05	1042.68

Notes: Depths to water measured December 11, 2023.

Acronyms: ft BTOC = feet below top of casing
ft MSL = feet Mean Sea Level
TOC = Top of Casing
NA = Not Available

Table 3
Summary of Appendix I/II Organic Compound Detections
Forsyth County - Hightower Road MSWLF
December 2023 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	1,1-DCE (µg/L)	Benzene (µg/L)	Chloro benzene (µg/L)	Chloro ethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	810*	7	5	110*	4.6*	70	5	5	2
Phase I Groundwater Locations									
PH1-GWA-1	--	--	--	--	--	--	--	--	--
PH1-GWA-1A	--	--	--	--	--	--	--	--	--
PH1-GWA-2	--	--	--	--	--	39	--	<u>2.8</u>	--
PH1-GWA-3A	--	--	--	--	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--	--	--	--	--
PH1-GWB-1	--	--	--	--	--	--	--	--	--
PH1-GWB-2	--	--	--	--	--	--	--	--	--
PH1-GWC-1	--	--	--	--	--	--	--	--	--
PH1-GWC-2	--	--	--	--	--	8.2	3.2	<u>2.5</u>	--
PH1-GWC-3	4.3	--	--	--	--	--	6.3	--	--
PH1-GWC-3A	2.5	--	--	--	--	15	2.5	7.4	--
PH1-GWC-4	PURGED DRY								
GWC-1	--	--	--	--	--	--	--	--	--
AMW-9	--	--	--	--	--	--	--	--	--
Phase II, III, and IV Groundwater Locations									
GWA-1	--	--	--	--	--	--	--	--	--
GWA-1A	--	--	--	--	--	--	--	--	--
GWA-2	--	--	--	--	--	--	--	--	--
GWA-3	--	--	--	--	--	--	--	--	--
GWC-2	--	--	--	--	--	--	--	--	--
GWC-3	PURGED DRY								
GWC-3A	--	--	--	--	--	--	--	--	--
GWC-4	--	--	--	--	--	--	--	--	--
GWC-4A	--	--	--	--	--	--	--	--	--
GWC-5	--	--	--	--	--	--	--	--	--
GWC-6	--	--	--	--	--	--	--	--	--
GWC-7	--	--	--	--	--	--	--	--	--
GWC-8	--	--	--	--	--	9.1	--	--	--
GWC-8A	<u>2.2</u>	--	<u>2.2</u>	--	--	33	--	--	--
GWC-8R	8.5	--	--	--	--	29	--	--	--

Notes: Groundwater samples collected December 11-14, 2023.

-- = 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 unverified detections.

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 2023 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	1,1-DCE (µg/L)	Benzene (µg/L)	Chloro benzene (µg/L)	Chloro ethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	810*	7	5	110*	4.6*	70	5	5	2
Phase II, III, and IV Groundwater Locations (Continued)									
GWC-9	--	--	--	--	--	--	--	--	--
GWC-10	--	--	--	--	--	--	--	--	--
GWC-10A	--	--	--	--	--	--	--	--	--
GWC-11	--	--	--	--	--	--	--	--	--
GWC-12	--	--	--	--	--	--	--	--	--
GWC-12A	--	--	--	--	--	--	--	--	--
GWC-13	--	--	--	--	--	--	--	--	--
GWC-14	--	--	--	--	--	--	--	--	--
GWC-14A	17	--	3.4	13	5.5	82	--	<u>2.6</u>	16
GWC-14R	12	--	--	--	--	23	--	2.6	--
GWC-15	Refer to Surrogate AMW-1								
GWC-16A	Refer to Surrogate AMW-2								
GWC-17	PURGED DRY								
GWC-18	--	--	--	--	--	26	<u>2.3</u>	--	--
GWC-19R	--	--	--	--	--	11	--	--	--
GWC-22	--	--	--	--	--	--	--	--	--
GWC-23	--	--	--	--	--	--	--	--	--
GWC-23A	--	--	--	--	--	--	--	--	--
GWC-24	--	--	--	--	--	--	--	--	--
AMW-1	<u>45</u>	<u>2.4</u>	<u>4.9</u>	--	--	170	11	88	--
AMW-2	--	--	--	--	--	--	--	--	--
AMW-4	--	--	--	--	--	21	3.6	<u>2.3</u>	--
AMW-5	--	--	--	--	--	--	--	--	--
AMW-12	--	--	--	--	--	--	--	--	--
AMW-12R	<u>2.3</u>	--	--	--	--	<u>2.8</u>	8.7	<u>2.1</u>	--
AMW-13	PURGED DRY								
AMW-14	--	--	--	--	--	--	--	--	--

Notes: Groundwater samples collected December 11-14, 2023.

-- = 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 unverified detections.

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 Metals Detections
Forsyth County - Hightower Road MSWLF
December 2023 Sampling Event

Monitoring Well ID	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	2	0.1	0.73*	0.1	5**
Phase I Groundwater Locations					
PH1-GWA-1	0.0243	--	0.0966	--	0.0213
PH1-GWA-1A	0.0256	--	--	--	--
PH1-GWA-2	0.0768	--	--	--	--
PH1-GWA-3A	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--
PH1-GWB-1	0.0460	--	--	--	--
PH1-GWB-2	--	--	--	--	0.0274
PH1-GWC-1	0.0327	--	--	--	--
PH1-GWC-2	0.0482	0.0174	--	--	0.0347
PH1-GWC-3	0.0368	--	--	--	--
PH1-GWC-3A	0.0319	--	--	--	--
PH1-GWC-4	Purged Dry				
GWC-1	0.112	--	--	--	--
AMW-9	--	--	--	--	--
Phase II, III, and IV Groundwater Locations					
GWA-1	0.0297	--	--	--	0.0301
GWA-1A	0.0405	--	--	--	--
GWA-2	0.0275	--	--	--	--
GWA-3	--	--	--	--	--
GWC-2	--	--	--	--	--
GWC-3	Purged Dry				
GWC-3A	0.0432	--	--	--	--
GWC-4	0.0242	--	--	--	--
GWC-4A	0.0457	--	--	--	--
GWC-5	--	--	--	--	--
GWC-6	--	--	--	--	--
GWC-7	0.0371	--	--	--	--
GWC-8	0.0398	--	--	--	--
GWC-8A	0.0479	--	--	--	--

Notes: Groundwater samples collected December 11-14, 2023.

-- = 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.

Underlined concentrations are unverified detections.

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 Metals Detections
Forsyth County - Hightower Road MSWLF
December 2023 Sampling Event

Monitoring Well ID	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	2	0.1	0.73*	0.1	5**
Phase II, III, and IV Groundwater Locations					
GWC-9	0.0936	--	--	--	0.0480
GWC-10	0.0293	--	--	--	--
GWC-10A	0.0381	--	--	--	--
GWC-11	0.0278	--	--	--	--
GWC-12	--	--	--	--	--
GWC-12A	--	--	--	--	--
GWC-13	0.0218	--	--	--	0.0223
GWC-14	Purged Dry, No Metals Collected				
GWC-14A	0.187	--	0.174	--	--
GWC-15	Refer to Surrogate AMW-1				
GWC-16A	Refer to Surrogate AMW-2				
GWC-17	Purged Dry				
GWC-18	0.192	--	--	0.107	--
GWC-19R	0.1010	--	--	--	0.0335
GWC-22	0.0237	--	--	--	--
GWC-23	--	--	--	--	0.0340
GWC-23A	0.0211	--	--	--	--
GWC-24	--	--	--	--	--
AMW-1	0.0717	--	--	--	--
AMW-2	0.0263	--	--	--	--
AMW-13	Purged Dry				

Notes: Groundwater samples collected December 11-14, 2023.

-- = 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.

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 2023 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
Phase I Unimpacted Upgradient Groundwater Location									
PH1-GWA-4	8.95	14	1.8	1.7	0.0	7.0	238	>100	--
Phase I Assessment Monitoring Locations									
PH1-GWA-1	37.0	43	2.6	1.6	1.5	5.2	171	>100	--
PH1-GWA-2	41.3	54	3.0	1.9	0.5	2.4	229	>100	--
PH1-GWC-2	74.9	105	3.1	2.9	0.0	2.7	119	30	--
PH1-GWC-3	74.0	82	4.5	2.7	NS	3.2	253	NS	--
PH1-GWC-3A	93.5	101	2.2	1.7	NS	2.6	225	>100	--
Phase II, III, and IV Assessment Monitoring Locations									
GWC-8A	77.5	65	4.2	1.7	7.0	2.8	23	>100	--
GWC-8R	140	143	2.5	3.3	3.0	7.0	96	100	--
GWC-14A	150	143	16	3.9	6.5	3.9	105	100	--
GWC-14R	145	173	4.5	3.5	0.5	1.9	110	>100	--
GWC-15	Purged Dry; Refer to AMW-1								
AMW-1	75.2	85	2.1	1.5	0.5	15.6	105	>100	--
GWC-16A	Purged Dry; Refer to AMW-2								
AMW-2	68.5	110	2.0	12	0.0	2.5	100	>100	0.41
GWC-17	Purged Dry								
GWC-18	30.4	58	4.8	1.9	0.0	4.2	258	>100	1.2
GWC-19R	47.5	48	2.1	2.6	1.0	5.4	183	>100	--
GWC-24	22.8	20	1.8	2.7	0.0	14.0	79	>100	0.36
AMW Series Locations									
AMW-4	42.9	64	3.1	1.7	0.0	6.0	326	>100	0.31
AMW-5	33.1	43	3.4	3.6	0.0	8.4	285	>100	--
AMW-14	35.2	43	3.6	3.2	0.0	7.9	252	>100	0.36

Notes: ¹ = Field measurement.
Units are mg/L unless otherwise noted.
Groundwater samples collected December 11-14, 2023.
-- = Below laboratory reporting limit.
> = Greater than the calibrated field value.

Acronyms: mg/L = milligrams per liter
NM = Not measured (purged dry and did not sufficiently recover; limited sample collection).
rel MV = relative millivolts
ORP = oxidation-reduction potential
CaCO₃ = calcium carbonate
NS = Not Sampled; color of well water interfered with field measurement.

Table 5
Groundwater Flow Rate Calculation
Forsyth County - Hightower Road MSWLF
December 2023 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 =	0.066	ft/ft	PH1-GWA-2 to GWC-1
i ² =	0.071	ft/ft	GWA-3 to GWC-2
i ³ =	0.087	ft/ft	GWA-2 to GWC-23
i ⁴ =	0.088	ft/ft	GWC-8 to AMW-11R
i ^{AVE} =	0.078	ft/ft	Average
n _e =	0.20	unitless	(reference 1)

Calculation

$$v = \frac{(1.0 \text{ ft/day}) (0.078 \text{ ft/ft})}{20\%}$$

$$v = 0.39 \text{ ft/day}$$

$$v = 143 \text{ ft/year}$$

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 2023 Sampling Event

Location ID	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Barium (mg/L)
SWA-2	1.77	--	2.97	--
SWC-1	2.79	--	5.70	0.0227
SWC-2	9.15	--	7.24	0.0407
SWC-3	1.82	--	2.81	--
SWC-4	1.77	--	3.36	--
SWC-4A	NS	NS	NS	NS
SWC-4B	NS	NS	NS	NS
SWC-5	10.4	--	20.7	0.0450

Location ID	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)
SWA-1	Point Dry			
SWA-2	6.10	41	12.3	2.0
SWC-1	6.74	100	11.2	2.1
SWC-2	5.91	88	15.8	27.8
SWC-3	6.33	51	12.3	4.2
SWC-4	6.25	48	11.5	1.2
SWC-4A	6.48	30	12.2	6.7
SWC-4B	5.53	605	8.9	7.6
SWC-5	6.38	160	17.0	6.0
SWC-6	Point Dry			
SWC-7	Point Dry			
SWC-8	Point Dry			
SWC-9	Point Dry			

Notes: Surface water samples collected December 11-13, 2023.

-- = Below laboratory reporting limit.

Surface water samples are grab samples.

No VOCs detected in SWC-1, SWC-4, SWC-4A, or SWC-4B samples.

Acronyms: °C = Degrees Celsius

mg/L = milligrams per liter

S.U. = Standard Units

µS/cm = microSiemens/centimeter

NTU = Nephelometric Turbidity Units

NS = not sampled/not required

Table 7
Summary of Statistically Significant Increases
Forsyth County - Hightower Road MSWLF
December 2023 Sampling Event

Well ID	Appendix I VOCs							Appendix I Metals			
	1,1-DCA	Benzene	Chloro-benzene	Chloro-ethane	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Total Barium	Total Chromium	Total Cobalt
Phase I Downgradient Groundwater Network Locations											
PH1-GWA-1									X		X
PH1-GWA-1A									X		
PH1-GWA-2					X		X		X		
PH1-GWB-1									X		
PH1-GWB-2											
PH1-GWC-1									X		
PH1-GWC-2					X	X	X		X	X	
PH1-GWC-3	X					X			X		
PH1-GWC-3A	X				X	X	X		X		
PH1-GWC-4	Purged Dry										
GWC-1									X		
Phase II, III, and IV Downgradient Groundwater Network Locations											
GWA-1A											
GWA-3											
GWC-2											
GWC-3	Purged Dry										
GWC-3A											
GWC-4											
GWC-4A											
GWC-5											
GWC-6											
GWC-7											
GWC-8											
GWC-8A	X	X			X				X		
GWC-8R	X				X						
GWC-9									X		
GWC-10											
GWC-10A											
GWC-11											
GWC-12											
GWC-12A											
GWC-13											
GWC-14	Purged Dry										
GWC-14A	X	X	X	X	X			X	X		X
GWC-14R	X				X		X				
GWC-15	X	X			X	X	X		X		
GWC-16A											
GWC-17	Purged Dry										
GWC-18					X	X			X		
GWC-19R					X				X		
GWC-22											
GWC-23											
GWC-23A											
GWC-24											

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
cis-1,2-DCE = cis-1,2-Dichloroethane

PCE = Tetrachloroethene
TCE = Trichloroethene

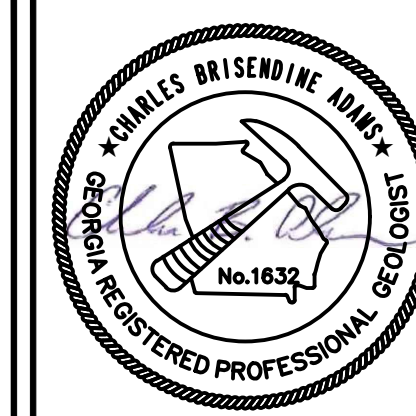
Table 8
Confidence Intervals for Comparing the Mean of the Most Recent
Measurements to an Assessment Monitoring Standard
Forsyth County - Hightower Road MSWLF
December 2023 Sampling Event

Well	Parameter	Jun-22	Dec-22	Jun-23	Dec-23	mean	SD	95% LCL	GWPS	95% LCL > GWPS
PH1-GWC-3	PCE	8.3	9.5	8.3	6.3	8.1	1.3	6.5	5	Yes
PH1-GWC-3A	TCE	6.8	8	5.5	7.4	6.9	1.1	5.7	5	Yes
GWC-14A	Vinyl Chloride	19	14	16	16	16.3	2.1	13.8	2	Yes

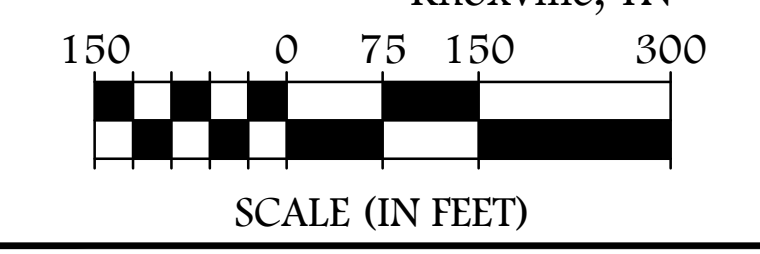
Notes: Reference: D7048 – 16 Standard Guide for Applying Statistical Methods for Assessment and Corrective Action
Environmental Monitoring Programs
Non-detect values are replaced with half the detection limit.

Acronyms: GWPS = groundwater protection standard
PCE = Tetrachloroethene LCL = lower confidence limit
SD = standard deviation TCE = Trichloroethene

FIGURE



ATLANTIC COAST CONSULTING, INC.
770-594-5998
www.atlcc.net
Roswell, GA
Savannah, GA
Knoxville, TN



LEGEND

EXISTING	DESCRIPTION
850	PROMINENT CONTOUR
---	INTERMEDIATE CONTOUR
- - - - -	PROPERTY BOUNDARY
- · - · -	APPROXIMATE LIMIT OF WASTE
---	SURFACE WATER/POND
---	GROUNDWATER CONTOUR
---	GROUNDWATER FLOW DIRECTION
●	GROUNDWATER MONITORING WELL
1002.23	ELEVATION IN FEET MEAN SEA LEVEL
▼	SURFACE WATER MONITORING POINT
□	METHANE MONITORING POINT
○	METHANE VENT
- - - - -	METHANE VENT TRENCH
○	EXTRACTION POINT WITH FLARE

NOTES

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

REVISIONS

NO.	INITIAL ISSUE	DATE
0.	INITIAL ISSUE	03/08/2024

PROJECT



FORSYTH COUNTY
HIGHTOWER ROAD LANDFILL

**POTENTIOMETRIC SURFACE MAP
DECEMBER 2023**

Drawn by: JB	Checked by: AS	QC by: CA
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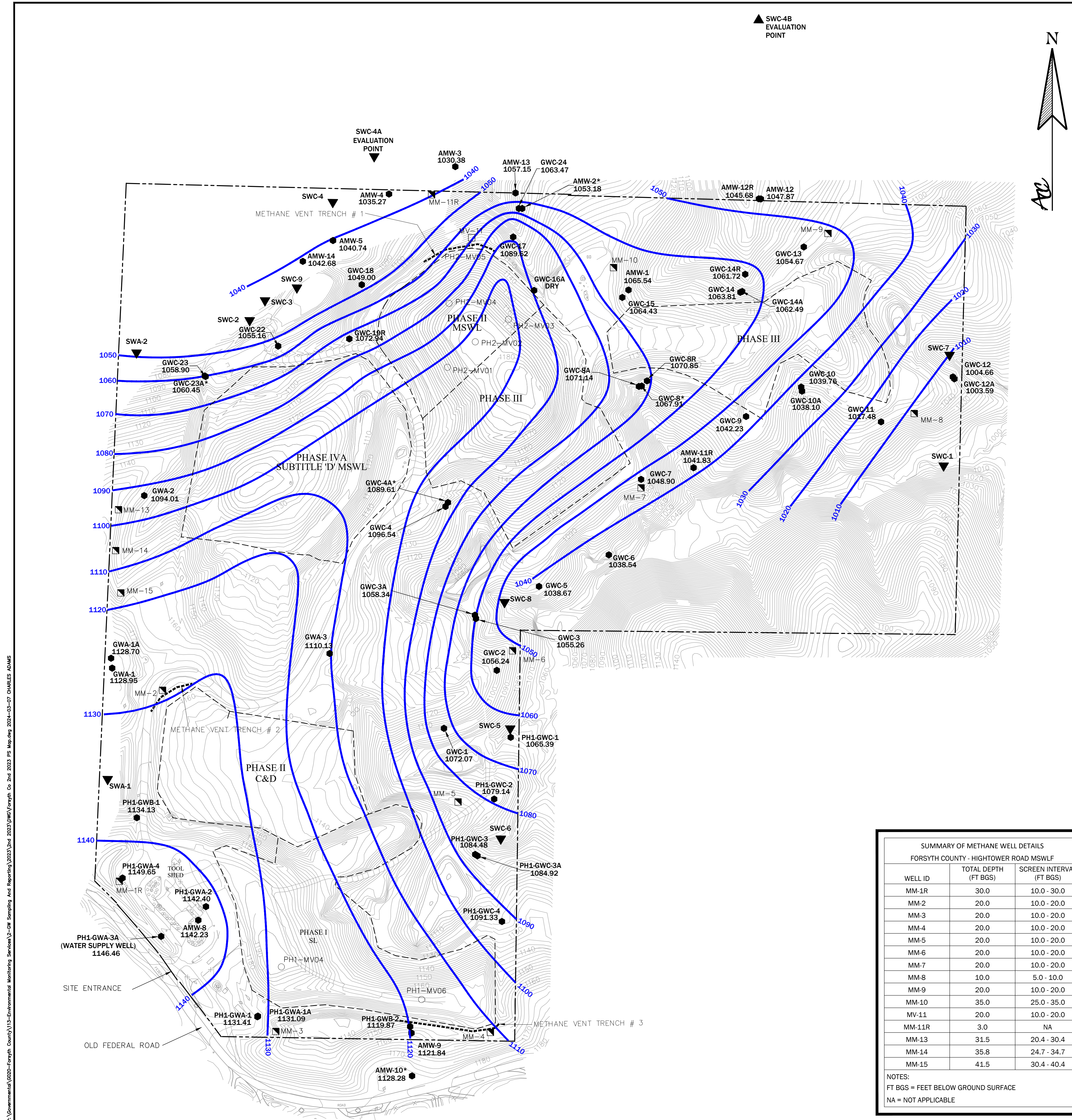
PROJECT NUMBER: G020-113	FIGURE: 1
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SUMMARY OF GROUNDWATER ELEVATION DATA FORSYTH COUNTY - HIGHTOWER ROAD MSWLF DECEMBER 2023 SAMPLING EVENT				
MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION (FT MSL)
PHASE I GROUNDWATER ELEVATION DATA				
PH1-GWA-1	48.66	1176.37	44.96	1131.41
PH1-GWA-1A	108.00	1176.35	45.26	1131.09
PH1-GWA-2	53.60	1183.4	41.00	1142.40
PH1-GWA-3A	250.00	1187.16	40.70	1146.46
PH1-GWA-4	57.00	1191.14	41.49	1149.65
PH1-GWB-1	53.80	1179.1	44.97	1134.13
PH1-GWB-2	42.22	1155.04	37.16	1117.88
PH1-GWC-1	23.79	1074.66	9.27	1065.39
PH1-GWC-2	127.61	1103.93	24.79	1079.14
PH1-GWC-3	23.42	1096.96	12.48	1084.48
PH1-GWC-3A	55.42	1096.28	11.36	1084.92
PH1-GWC-4	33.71	1124.26	32.93	1091.33
GWC-1	38.80	1102.25	30.18	1072.07
AMW-8	50.40	1186.23	44.00	1142.23
AMW-9	41.69	1162.64	40.80	1121.84
AMW-10	56.81	1180.73	52.45	1128.28
PHASE II, III, AND IV GROUNDWATER ELEVATION DATA				
GWA-1	62.85	1187.70	58.75	1128.95
GWA-1A	141.00	1187.49	58.79	1128.70
GWA-2	52.18	1137.30	43.29	1094.01
GWA-3	48.86	1154.53	44.40	1110.13
GWC-2	55.61	1103.64	47.40	1056.24
GWC-3	39.71	1092.39	37.13	1055.26
GWC-3A	68.95	1094.67	36.33	1058.34
GWC-4	49.81	1132.82	36.28	1096.54
GWC-4A	89.23	1132.39	42.78	1089.61
GWC-5	49.91	1084.55	45.88	1038.67
GWC-6	34.52	1064.01	25.47	1038.54
GWC-7	54.21	1093.44	44.54	1048.90
GWC-8	27.53	1095.63	27.72	1067.91
GWC-8A	46.71	1095.44	24.30	1071.14
GWC-8R	94.67	1098.40	27.55	1070.85
GWC-9	60.50	1093.58	51.35	1042.23
GWC-10	37.51	1068.56	28.80	1039.76
GWC-10A	54.30	1066.45	28.35	1038.10
GWC-11	46.80	1054.08	36.60	1017.48
GWC-12	40.06	1038.06	33.40	1004.66
GWC-12A	49.44	1038.09	34.50	1003.59
GWC-13	44.95	1090.82	36.15	1054.67
GWC-14	28.37	1089.49	25.68	1063.81
GWC-14A	64.75	1089.32	26.83	1062.49
GWC-14R	93.61	1078.60	16.88	1061.72
GWC-15	62.84	1125.68	61.25	1064.43
GWC-16A	51.05	1136.49	DRY	NA
GWC-17	21.59	1107.78	18.16	1089.62
GWC-18	52.70	1094.87	45.87	1049.00
GWC-19R	39.87	1105.79	32.85	1072.94
GWC-22	35.05	1079.01	23.85	1055.16
GWC-23	32.22	1079.06	20.16	1058.90
GWC-23A	61.67	1079.10	18.65	1060.45
GWC-24	44.09	1102.32	38.85	1063.47
AMW-1	180.70	1130.04	64.50	1065.54
AMW-2	150.00	1101.96	48.78	1053.18
AMW-3	31.30	1041.09	10.71	1030.38
AMW-4	18.80	1040.09	4.82	1035.27
AMW-5	23.06	1049.32	8.58	1040.74
AMW-11R	58.10	1053.63	11.80	1041.83
AMW-12	19.56	1056.85	8.98	1047.87
AMW-12R	46.43	1056.34	10.66	1045.68
AMW-13	36.18	1093.09	35.94	1057.15
AMW-14	21.70	1052.73	10.05	1042.68

SUMMARY OF METHANE WELL DETAILS FORSYTH COUNTY - HIGHTOWER ROAD MSWLF		
WELL ID	TOTAL DEPTH (FT BGS)	SCREEN INTERVAL (FT BGS)
MM-1R	30.0	10.0 - 30.0
MM-2	20.0	10.0 - 20.0
MM-3	20.0	10.0 - 20.0
MM-4	20.0	10.0 - 20.0
MM-5	20.0	10.0 - 20.0
MM-6	20.0	10.0 - 20.0
MM-7	20.0	10.0 - 20.0
MM-8	10.0	5.0 - 10.0
MM-9	20.0	10.0 - 20.0
MM-10	35.0	25.0 - 35.0
MM-11	20.0	10.0 - 20.0
MM-11R	3.0	NA
MM-13	31.5	20.4 - 30.4
MM-14	35.8	24.7 - 34.7
MM-15	41.5	30.4 - 40.4

NOTES:
FT BGS = FEET BELOW GROUND SURFACE
NA = NOT APPLICABLE

NOTES:
DEPTHS TO WATER MEASURED DECEMBER 11, 2023.
FT BTOC = FEET BELOW TOP OF CASING
FT MSL = FEET MEAN SEA LEVEL
TOC = TOP OF CASING
NA = NOT AVAILABLE



P:\Governmental\G020-Forsyth County\113-Environmental Monitoring Services\2-Off Sampling and Reporting\2023\2nd 2023\GWC\Forsyth Co 2nd 2023 PS Map.dwg 2024-03-07 CHARLES ADAMS

ATTACHMENTS

ATTACHMENT A
LABORATORY ANALYTICAL RESULTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 05, 2024

Charles Adams
Atlantic Coast Consulting, Inc.
1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County-Hightower Road MSWLF

Dear Charles Adams:

Order No: 2312F00

Analytical Environmental Services, Inc. received 82 samples on December 13, 2023 4:17 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 07/01/23-06/30/24.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/24 and Total Coliforms/ E. coli, effective 04/25/23-04/24/24.

-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 11/01/25.

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,

Ioana Pacurar
Project Manager

Revision 1/5/2024

CHAIN OF CUSTODY

COMPANY: Atlantic Coast Consulting, Inc.			ADDRESS: 1150 Northmeadow Pkwy Suite 100 Roswell, GA 30076			ANALYSIS REQUESTED											Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers															
PHONE: 770-712-9785 or 770-594-5998			EMAIL: charles.adams@atcc.net			Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC																			
SAMPLED BY: <i>J. May, H. Auld, J. Tracy, B. Maxwell</i>			SIGNATURE: <i>[Signature]</i>			PRESERVATION (see codes)																												
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)												REMARKS																
		DATE	TIME				H+I	N	I	I	I	N	I	NaOH	S+I	S+I																		
1	GWL-7	12/11/23	1535	✓		GW	✓																											2
2	GWL-5	12/11/23	1605	✓		GW	✓																											2
3	GWL-5	12/12/23	0935	✓		GW		✓																										1
4	GWL-7	12/12/23	1015	✓		GW		✓																										1
5	GWL-6	12/12/23	1005	✓		GW	✓																											2
6	GWL-2	12/11/23	1530	✓		GW	✓																											2
7	PHI-GWB-2	12/12/23	1105	✓		GW	✓																											2
8	GWL-1	12/11/23	1610	✓		GW	✓																											2
9	AMW-9	12/12/23	1120	✓		GW	✓																											2
10	SWL-4B	12/11/23	1440	✓		SW	✓																											2
11	GWL-14R	12/12/23	1305	✓		GW	✓			✓	✓	✓																						3
12	GWL-9	12/11/23	1445	✓		GW	✓																											2
13	GWL-10	12/11/23	1510	✓		GW	✓																											2
14	GWL-10A	12/11/23	1608	✓		GW	✓																											2
RELINQUISHED BY:		DATE/TIME:	RECEIVED BY:		DATE/TIME:	PROJECT INFORMATION											RECEIPT																	
1. <i>[Signature]</i>		12/13/23 1617	1. <i>[Signature]</i>		12.13.23 16:17	PROJECT NAME: Forsyth County - Hightower Road MSWLF											Total # of Containers	27																
2.			2.			PROJECT #: G020-113											Turnaround Time (TAT) Request																	
3.			3.			SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107											<input checked="" type="checkbox"/> Standard																	
SPECIAL INSTRUCTIONS/COMMENTS: * 48-hr holding time nitrate ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg 0.6°C 1.1°C 1.6°C		SHIPMENT METHOD		SEND REPORT TO: Charles Adams, Betsy McDaniel											<input type="checkbox"/> 2 Business Day Rush																			
		OUT: / / VIA: 0.6°C 1.1°C		INVOICE TO (IF DIFFERENT FROM ABOVE):											<input type="checkbox"/> Next Business Day Rush																			
		IN: / / VIA: 1.6°C		QUOTE #: _____ PO#: _____											<input type="checkbox"/> Same-Day Rush (auth req.)																			
		Client FedEx UPS US mail courier other: _____		STATE PROGRAM (if any): _____											<input type="checkbox"/> Other _____																			
				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>											DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																			

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Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST = Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

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

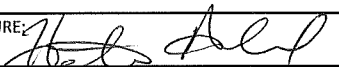
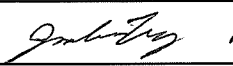

CHAIN OF CUSTODY

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy Suite 100 Roswell, GA 30076			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers	
PHONE: 770-712-9785 or 770-594-5998		EMAIL: charles.adams@atlcc.net			Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC				App 11 VOCs
SAMPLED BY: <i>H. Auld, J. Tracy, J. May, B. Maxwell</i>		SIGNATURE: <i>[Signature]</i>			PRESERVATION (see codes)										REMARKS			
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H+I	N	I	I	I	N	I	NaOH				S+I
1	GWC-23A	12/11/23	1430	✓		GW	✓											2
2	GWC-23A	12/12/23	1150	✓		GW		✓										1
3	GWC-24	12/12/23	1420	✓		GW	✓		✓	✓	✓							3
4	AMW-2	12/12/23	1625	✓		GW	✓		✓	✓	✓							3
5	AMW-4	12/12/23	1215	✓		GW	✓		✓	✓	✓							3
6	AMW-5	12/12/23	1245	✓		GW	✓		✓	✓	✓							3
7	AMW-12	12/12/23	1415	✓		GW											✓	2
8	AMW-12R	12/12/23	1508	✓		GW											✓	2
9	AMW-14	12/12/23	1500	✓		GW	✓		✓	✓	✓							3
10	Field Blank-2	12/12/23	1430	✓		W	✓	✓										3
11	PHI-GWB-2	12/13/23	0935	✓		GW		✓										1
12	GWC-6	12/13/23	0950	✓		GW		✓										1
13	GWC-1	12/12/23	1005	✓		GW		✓										1
14	GWC-2	12/12/23	0950	✓		GW		✓										1
RELINQUISHED BY:		DATE/TIME:	RECEIVED BY:		DATE/TIME:	PROJECT INFORMATION										RECEIPT		
1. <i>[Signature]</i>		12/13/23 1617	1. <i>[Signature]</i>		12-13-23 16:17	PROJECT NAME: Forsyth County - Hightower Road MSWLF										Total # of Containers		
2.			2.			PROJECT #: G020-113										Turnaround Time (TAT) Request <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____		
3.			3.			SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107												
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD										STATE PROGRAM (if any): _____						
* 48-hr holding time nitrate		OUT: / / VIA:										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>						
** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg		IN: / / VIA:										DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>						
0.6°C 1.1°C 1.6°C		Client FedEx UPS US mail courier																
		other: _____										QUOTE #: _____ PO#: _____						
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PHONE: 770-712-9785 or 770-594-5998		EMAIL: charles.adams@atlcc.net				Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC				REMARKS
SAMPLED BY: <i>H. Auld, J. Tracy, B. Maxwell, J. May</i>		SIGNATURE: <i>[Signature]</i>														PRESERVATION (see codes)			
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS		
		DATE	TIME				H+I	N	I	I	I	N	I	NaOH	S+I	S+I			
1	GWA-3	12/12/23	1130	✓		GW	✓											1	
2	GWC-3	12/12/23	0950	✓		GW	✓											1	
3	GWC-3A	12/12/23	1142	✓		GW	✓											2	
4	GWC-4	12/12/23	1220	✓		GW	✓											2	
5	GWC-8	12/12/23	1310	✓		GW	✓											2	
6	GWC-9	12/12/23	1011	✓		GW	✓											1	
7	GWC-10	12/12/23	1020	✓		GW	✓											1	
8	GWC-10A	12/12/23	1025	✓		GW	✓											1	
9	GWC-11	12/12/23	1035	✓		GW	✓											1	
10	GWC-18	12/12/23	1515	✓		GW	✓	✓	✓	✓								3	
11	GWC-22	12/11/23	1330	✓		GW	✓											2	
12	GWC-22	12/12/23	1155	✓		GW	✓											1	
13	GWC-23	12/11/23	1300	✓		GW	✓											2	
14	GWC-23	12/11/23	1145	✓		GW	✓											1	
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1. <i>[Signature]</i>		12/13/23 1017		1. <i>[Signature]</i>		12.13.23 16:17		PROJECT NAME: Forsyth County - Hightower Road MSWLF										Total # of Containers 70	
2.				2.				PROJECT #: G020-113										Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107										<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS: * 48-hr holding time nitrate ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg 0.6°C 1.1°C 1.6°C				SHIPMENT METHOD				SEND REPORT TO: Charles Adams, Betsy McDaniel										STATE PROGRAM (if any): _____	
				OUT: / / VIA: IN: / / VIA: Client FedEx UPS US mail courier other: _____				INVOICE TO (IF DIFFERENT FROM ABOVE):										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
								QUOTE #:										DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
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PHONE: 770-712-9785 or 770-594-5998		EMAIL: charles.adams@atlcc.net					<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>Appendix I VOC</td> <td>Appendix I Metals</td> <td>Alkalinity</td> <td>TDS</td> <td>Cl, SO4, NO3 *</td> <td>SW Metals **</td> <td>Chloride</td> <td>Cyanide</td> <td>COD</td> <td>TOC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="10">PRESERVATION (see codes)</td> <td colspan="10">REMARKS</td> </tr> <tr> <td>H+I</td> <td>N</td> <td>I</td> <td>I</td> <td>I</td> <td></td> <td>N</td> <td>I</td> <td>NaOH</td> <td>S+I</td> <td>S+I</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC										PRESERVATION (see codes)										REMARKS										H+I	N	I	I	I		N	I	NaOH	S+I	S+I					
Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC																																																																	
PRESERVATION (see codes)										REMARKS																																																																
H+I	N	I	I	I		N	I	NaOH	S+I	S+I																																																																
SAMPLED BY: H. Amel, B. Maxwell, J. Tracy, J. May		SIGNATURE: 																																																																								
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS																																																									
		DATE	TIME				H+I	N	I	I	I		N	I	NaOH	S+I			S+I																																																							
1	PH1-GWC-3	12/13/23	1115	✓		GW	✓		✓	✓	✓												3																																																			
2	PH1-GWC-3A	12/13/23	1215	✓		GW	✓		✓	✓	✓												3																																																			
3	GWA-1A	12/13/23	1100	✓		GW	✓	✓															3																																																			
4	GWC-3A	12/13/23	0930	✓		GW		✓															1																																																			
5	GWC-4	12/13/23	0951	✓		GW		✓															1																																																			
6	GWC-4A	12/13/23	1155	✓		GW	✓	✓															3																																																			
7	GWC-1Z	12/13/23	0940	✓		GW		✓															1																																																			
8	GWC-1ZA	12/13/23	0945	✓		GW		✓															1																																																			
9	GWC-13	12/13/23	0930	✓		GW		✓															1																																																			
10	GWC-8	12/13/23	1010	✓		GW		✓															1																																																			
11	GWC-14A	12/13/23	1010	✓		GW		✓															1																																																			
12	GWC-24	12/13/23	1040	✓		GW		✓															1																																																			
13	GWC-7 AMW-2	12/13/23	1030	✓		GW		✓															1																																																			
14	Field Blank - 1	12/13/23	1335	✓		W	✓	✓															3																																																			
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT																																																								
1. 		12/13/23 1017		1. 		12.13.23 1617		PROJECT NAME: Forsyth County - Hightower Road MSWLF										Total # of Containers 24																																																								
2.				2.				PROJECT #: G020-113										Turnaround Time (TAT) Request																																																								
3.				3.				SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107										<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																																																								
SPECIAL INSTRUCTIONS/COMMENTS: * 48-hr holding time nitrate ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg 0.6°C 1.1°C 1.6°C				SHIPMENT METHOD				SEND REPORT TO: Charles Adams, Betsy McDaniel										STATE PROGRAM (if any): _____																																																								
				OUT: / / VIA: IN: / / VIA: Client FedEx UPS US mail courier other: _____				INVOICE TO (IF DIFFERENT FROM ABOVE):										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																																																								
								QUOTE #: _____ PO#: _____										DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																																																								
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PHONE: 770-712-9785 or 770-594-5998		EMAIL: charles.adams@atlcc.net			Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC			
SAMPLED BY: <i>H. Adair, J. May, B. Maxwell, J. Tracy</i>		SIGNATURE: <i>[Signature]</i>			SAMPLED:					PRESERVATION (see codes)							
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H+I	N	I	I	I	N	I	NaOH		S+I	S+I
1	GWC-11	12-11-23	1627	✓		GW	✓										2
2	GWC-12	12/12/23	1137	✓		GW	✓										2
3	GWC-12A	12/12/23	1217	✓		GW	✓										2
4	GWC-13	12/12/23	1115	✓		GW	✓										2
5	GWC-14	12/12/23	1226	✓		GW	✓										2
6	GWC-14A	12/12/23	1317	✓		GW	✓		✓	✓	✓						3
7	GWC-8R	12/12/23	1455	✓		GW	✓		✓	✓	✓						3
8	PHI-GWA-1A	12/11/23	1620	✓		GW	✓										2
9	PHI-GWA-1A	12/12/23	1110	✓		GW		✓									1
10	PHI-GWA-4	12/12/23	1400	✓		GW	✓		✓	✓	✓						3
11	PHI-GWB-1	12/12/23	1050	✓		GW	✓										2
12	GWA-1	12/12/23	0950	✓		GW	✓										2
13	GWA-2	12/12/23	1020	✓		GW	✓										2
14	GWA-3	12/11/23	1500	✓		GW	✓										2
RELINQUISHED BY:		DATE/TIME:	RECEIVED BY:		DATE/TIME:	PROJECT INFORMATION										RECEIPT	
1. <i>[Signature]</i>		12/13/23 1617	1. <i>[Signature]</i>		12-13-23 16:17	PROJECT NAME: Forsyth County - Hightower Road MSWLF										Total # of Containers	30
2.			2.			PROJECT #: G020-113										Turnaround Time (TAT) Request	
3.			3.			SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107										<input checked="" type="checkbox"/> Standard	
SPECIAL INSTRUCTIONS/COMMENTS: * 48-hr holding time nitrate ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg		SHIPMENT METHOD				SEND REPORT TO: Charles Adams, Betsy McDaniel										<input type="checkbox"/> 2 Business Day Rush	
0.6°C 1.1°C 1.6°C		OUT: / / VIA: IN: / / VIA: Client FedEx UPS US mail courier other: _____				INVOICE TO (IF DIFFERENT FROM ABOVE):										<input type="checkbox"/> Next Business Day Rush	
						QUOTE #:										<input type="checkbox"/> Same-Day Rush (auth req.)	
																<input type="checkbox"/> Other _____	
																STATE PROGRAM (if any): _____	
																E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
																DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
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PHONE: 770-712-9785 or 770-594-5998		EMAIL: charles.adams@atlcc.net			Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC					
SAMPLED BY: <i>B. Maxwell, H. Auld, J. Tracy</i>		SIGNATURE: <i>[Signature]</i>			PRESERVATION (see codes)										REMARKS				
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	H+I	N	I	I	I	N	I	NaOH				S+I	S+I
1	PH1-GWA-1	12/13/23	1400	✓		GW	✓		✓	✓	✓							3	
2	GW-BA	12/13/23	1350	✓		GW	✓		✓	✓	✓							3	
3	PH1-GWA-2	12/13/23	1120	✓		GW	✓		✓	✓	✓							3	
4	PH1-GWA-4	12/13/23	1245	✓		GW		✓										1	
5	PH1-GWB-1	12/13/23	1050	✓		GW		✓										1	
6	PH1-GWC-1	12/13/23	1210	✓		GW	✓											2	
7	GWA-1	12/13/23	0940	✓		GW		✓										1	
8	GWA-2	12/13/23	0950	✓		GW		✓										1	
9	GW-18	12/13/23	1025	✓		GW		✓										1	
10	GW-19R	12/13/23	1000	✓		GW	✓		✓	✓	✓							3	
11	Trip Blank			✓		W	✓											2	
12																			
13																			
14																			
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1. <i>[Signature]</i>		12/13/23 1617		2. <i>[Signature]</i>		12-13-23 1617		PROJECT NAME: Forsyth County - Hightower Road MSWLF										Total # of Containers 21	
2.				3.				PROJECT #: G020-113										Turnaround Time (TAT) Request <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
3.				3.				SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107											
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: Charles Adams, Betsy McDaniel										STATE PROGRAM (if any): _____ E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
* 48-hr holding time nitrate ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg				OUT: <input type="checkbox"/> / <input type="checkbox"/> VIA: IN: <input checked="" type="checkbox"/> / <input type="checkbox"/> VIA: Client FedEx UPS US mail courier other: _____				INVOICE TO (IF DIFFERENT FROM ABOVE): QUOTE #: _____ PO#: _____											
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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 MSWLF
Lab ID: 2312F00

Case Narrative

Sample Receiving Non-conformance:

Sample AMW-1 was received but it was not listed on the COC. At the request of Betsy McDaniel with ACC via e-mail on 12/15/2023, laboratory proceeded by analyzing this sample for App I VOCs, App I Metals, Alkalinity, TDS, Cl, SO4, and NO3.

Total Metals Analysis by Method 6020B:

LCS-368284 recovery for Lead and Thallium was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Revision 1/5/24:

At the request of Betsy McDaniel with ACC, sample 2312F00-033 was re-analyzed for Cadmium and sample 2312F00-078 was re-analyzed for Nickel. The Nickel analysis on sample 2312F00-078 confirmed the original results; however, the Cadmium result for 2312F00-033 was reported as BRL after re-analysis.

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-7
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/11/2023 3:35:00 PM
Lab ID: 2312F00-001	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	368246	1	12/15/2023 13:16	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 13:16	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 13:16	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 13:16	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 13:16	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 13:16	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 13:16	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 13:16	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 13:16	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 13:16	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 13:16	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 13:16	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:16	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 13:16	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 13:16	AV

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 MSWLF	Collection Date:	12/11/2023 3:35:00 PM
Lab ID:	2312F00-001	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	368246	1	12/15/2023 13:16	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 13:16	AV
Surr: 4-Bromofluorobenzene	95.5	70-126		%REC	368246	1	12/15/2023 13:16	AV
Surr: Dibromofluoromethane	101	77-121		%REC	368246	1	12/15/2023 13:16	AV
Surr: Toluene-d8	96.1	78.6-119		%REC	368246	1	12/15/2023 13:16	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-002

Client Sample ID: GWC-5
Collection Date: 12/11/2023 4:05:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 13:41	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 13:41	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 13:41	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 13:41	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 13:41	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 13:41	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 13:41	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 13:41	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 13:41	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 13:41	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 13:41	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 13:41	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 13:41	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 13:41	AV

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 MSWLF	Collection Date: 12/11/2023 4:05:00 PM
Lab ID: 2312F00-002	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	368246	1	12/15/2023 13:41	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 13:41	AV
Surr: 4-Bromofluorobenzene	94.5	70-126		%REC	368246	1	12/15/2023 13:41	AV
Surr: Dibromofluoromethane	102	77-121		%REC	368246	1	12/15/2023 13:41	AV
Surr: Toluene-d8	94.9	78.6-119		%REC	368246	1	12/15/2023 13:41	AV

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 MSWLF	Collection Date: 12/12/2023 9:35:00 AM
Lab ID: 2312F00-003	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	368282	1	12/18/2023 20:20	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 20:20	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:20	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 20:20	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 20:20	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:20	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 20:20	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 20:20	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 20:20	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 20:20	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:20	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 20:20	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 20:20	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:20	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 20:20	AD

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 MSWLF	Collection Date: 12/12/2023 10:15:00 AM
Lab ID: 2312F00-004	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	368282	1	12/18/2023 20:32	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 20:32	AD
Barium	0.0371	0.0200		mg/L	368282	1	12/18/2023 20:32	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 20:32	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 20:32	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:32	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 20:32	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 20:32	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 20:32	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 20:32	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:32	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 20:32	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 20:32	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:32	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 20:32	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-005

Client Sample ID: GWC-6
Collection Date: 12/12/2023 10:05:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 14:05	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 14:05	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 14:05	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 14:05	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 14:05	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 14:05	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 14:05	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 14:05	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 14:05	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 14:05	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 14:05	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:05	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 14:05	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 14:05	AV

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 MSWLF	Collection Date: 12/12/2023 10:05:00 AM
Lab ID: 2312F00-005	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	368246	1	12/15/2023 14:05	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 14:05	AV
Surr: 4-Bromofluorobenzene	93.9	70-126		%REC	368246	1	12/15/2023 14:05	AV
Surr: Dibromofluoromethane	102	77-121		%REC	368246	1	12/15/2023 14:05	AV
Surr: Toluene-d8	97.3	78.6-119		%REC	368246	1	12/15/2023 14:05	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-006

Client Sample ID: GWC-2
Collection Date: 12/11/2023 3:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 14:29	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 14:29	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 14:29	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 14:29	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 14:29	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 14:29	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 14:29	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 14:29	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 14:29	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 14:29	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 14:29	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:29	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 14:29	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 14:29	AV

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 MSWLF	Collection Date: 12/11/2023 3:30:00 PM
Lab ID: 2312F00-006	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	368246	1	12/15/2023 14:29	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 14:29	AV
Surr: 4-Bromofluorobenzene	94.4	70-126		%REC	368246	1	12/15/2023 14:29	AV
Surr: Dibromofluoromethane	103	77-121		%REC	368246	1	12/15/2023 14:29	AV
Surr: Toluene-d8	97.3	78.6-119		%REC	368246	1	12/15/2023 14:29	AV

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 MSWLF	Collection Date: 12/12/2023 11:05:00 AM
Lab ID: 2312F00-007	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	368246	1	12/15/2023 14:53	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 14:53	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 14:53	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 14:53	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 14:53	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 14:53	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 14:53	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 14:53	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 14:53	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 14:53	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 14:53	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 14:53	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 14:53	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 14:53	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 14:53	AV

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 MSWLF	Collection Date: 12/12/2023 11:05:00 AM
Lab ID: 2312F00-007	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	368246	1	12/15/2023 14:53	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 14:53	AV
Surr: 4-Bromofluorobenzene	97.1	70-126		%REC	368246	1	12/15/2023 14:53	AV
Surr: Dibromofluoromethane	105	77-121		%REC	368246	1	12/15/2023 14:53	AV
Surr: Toluene-d8	97.7	78.6-119		%REC	368246	1	12/15/2023 14:53	AV

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-1
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/11/2023 4:10:00 PM
Lab ID: 2312F00-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 15:17	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 15:17	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 15:17	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 15:17	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 15:17	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 15:17	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 15:17	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 15:17	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 15:17	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 15:17	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 15:17	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:17	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 15:17	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 15:17	AV

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 MSWLF	Collection Date: 12/11/2023 4:10:00 PM
Lab ID: 2312F00-008	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	368246	1	12/15/2023 15:17	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 15:17	AV
Surr: 4-Bromofluorobenzene	98.5	70-126		%REC	368246	1	12/15/2023 15:17	AV
Surr: Dibromofluoromethane	101	77-121		%REC	368246	1	12/15/2023 15:17	AV
Surr: Toluene-d8	97.9	78.6-119		%REC	368246	1	12/15/2023 15:17	AV

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-009

Client Sample ID: AMW-9
Collection Date: 12/12/2023 11:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 15:41	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 15:41	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 15:41	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 15:41	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 15:41	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 15:41	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 15:41	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 15:41	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 15:41	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 15:41	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 15:41	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 15:41	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 15:41	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 15:41	AV

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 MSWLF	Collection Date: 12/12/2023 11:20:00 AM
Lab ID: 2312F00-009	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	368246	1	12/15/2023 15:41	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 15:41	AV
Surr: 4-Bromofluorobenzene	97.3	70-126		%REC	368246	1	12/15/2023 15:41	AV
Surr: Dibromofluoromethane	101	77-121		%REC	368246	1	12/15/2023 15:41	AV
Surr: Toluene-d8	95.2	78.6-119		%REC	368246	1	12/15/2023 15:41	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-010

Client Sample ID: SWC-4B
Collection Date: 12/11/2023 2:40:00 PM
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	368246	1	12/15/2023 16:05	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 16:05	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 16:05	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 16:05	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 16:05	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 16:05	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 16:05	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 16:05	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 16:05	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 16:05	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 16:05	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 16:05	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:05	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 16:05	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 16:05	AV

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 MSWLF	Collection Date:	12/11/2023 2:40:00 PM
Lab ID:	2312F00-010	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	368246	1	12/15/2023 16:05	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 16:05	AV
Surr: 4-Bromofluorobenzene	96.5	70-126		%REC	368246	1	12/15/2023 16:05	AV
Surr: Dibromofluoromethane	104	77-121		%REC	368246	1	12/15/2023 16:05	AV
Surr: Toluene-d8	97	78.6-119		%REC	368246	1	12/15/2023 16:05	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-011

Client Sample ID: GWC-14R
Collection Date: 12/12/2023 1:05:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	173	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	4.5	1.0		mg/L	R533583	1	12/14/2023 12:50	TM
Nitrate	BRL	0.25		mg/L	R533583	1	12/14/2023 12:50	TM
Sulfate	3.5	1.0		mg/L	R533583	1	12/14/2023 22:29	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,1-Dichloroethane	12	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 16:29	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 16:29	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 16:29	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 16:29	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 16:29	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 16:29	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 16:29	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 16:29	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
cis-1,2-Dichloroethene	23	2.0		ug/L	368246	1	12/15/2023 16:29	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 16:29	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 16:29	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV

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-14R
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 1:05:00 PM
Lab ID: 2312F00-011	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	368246	1	12/15/2023 16:29	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 16:29	AV
Trichloroethene	2.6	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 16:29	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 16:29	AV
Vinyl chloride	BRL	2.0		ug/L	368246	1	12/15/2023 16:29	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 16:29	AV
Surr: 4-Bromofluorobenzene	96.8	70-126		%REC	368246	1	12/15/2023 16:29	AV
Surr: Dibromofluoromethane	103	77-121		%REC	368246	1	12/15/2023 16:29	AV
Surr: Toluene-d8	97	78.6-119		%REC	368246	1	12/15/2023 16:29	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	145	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-012

Client Sample ID: GWC-9
Collection Date: 12/11/2023 2:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 16:53	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 16:53	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 16:53	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 16:53	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 16:53	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 16:53	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 16:53	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 16:53	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 16:53	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 16:53	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 16:53	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 16:53	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 16:53	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 16:53	AV

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 MSWLF	Collection Date: 12/11/2023 2:45:00 PM
Lab ID: 2312F00-012	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	368246	1	12/15/2023 16:53	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 16:53	AV
Surr: 4-Bromofluorobenzene	95.5	70-126		%REC	368246	1	12/15/2023 16:53	AV
Surr: Dibromofluoromethane	104	77-121		%REC	368246	1	12/15/2023 16:53	AV
Surr: Toluene-d8	96.3	78.6-119		%REC	368246	1	12/15/2023 16:53	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-013

Client Sample ID: GWC-10
Collection Date: 12/11/2023 3:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 17:16	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 17:16	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 17:16	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 17:16	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 17:16	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 17:16	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 17:16	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 17:16	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 17:16	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 17:16	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 17:16	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:16	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 17:16	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 17:16	AV

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 MSWLF	Collection Date: 12/11/2023 3:10:00 PM
Lab ID: 2312F00-013	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	368246	1	12/15/2023 17:16	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 17:16	AV
Surr: 4-Bromofluorobenzene	94.1	70-126		%REC	368246	1	12/15/2023 17:16	AV
Surr: Dibromofluoromethane	102	77-121		%REC	368246	1	12/15/2023 17:16	AV
Surr: Toluene-d8	95.6	78.6-119		%REC	368246	1	12/15/2023 17:16	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-014

Client Sample ID: GWC-10A
Collection Date: 12/11/2023 4:08:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 17:40	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 17:40	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 17:40	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 17:40	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 17:40	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 17:40	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 17:40	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 17:40	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 17:40	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 17:40	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 17:40	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 17:40	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 17:40	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 17:40	AV

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 MSWLF	Collection Date: 12/11/2023 4:08:00 PM
Lab ID: 2312F00-014	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	368246	1	12/15/2023 17:40	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 17:40	AV
Surr: 4-Bromofluorobenzene	95.5	70-126		%REC	368246	1	12/15/2023 17:40	AV
Surr: Dibromofluoromethane	107	77-121		%REC	368246	1	12/15/2023 17:40	AV
Surr: Toluene-d8	99.2	78.6-119		%REC	368246	1	12/15/2023 17:40	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-015

Client Sample ID: GWC-23A
Collection Date: 12/11/2023 2:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 18:04	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 18:04	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 18:04	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 18:04	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 18:04	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 18:04	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 18:04	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 18:04	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 18:04	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 18:04	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Tetrachloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 18:04	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:04	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 18:04	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 18:04	AV

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 MSWLF	Collection Date: 12/11/2023 2:30:00 PM
Lab ID: 2312F00-015	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	368246	1	12/15/2023 18:04	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 18:04	AV
Surr: 4-Bromofluorobenzene	95.3	70-126		%REC	368246	1	12/15/2023 18:04	AV
Surr: Dibromofluoromethane	102	77-121		%REC	368246	1	12/15/2023 18:04	AV
Surr: Toluene-d8	96.8	78.6-119		%REC	368246	1	12/15/2023 18:04	AV

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 MSWLF	Collection Date: 12/12/2023 11:50:00 AM
Lab ID: 2312F00-016	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	368282	1	12/18/2023 20:34	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 20:34	AD
Barium	0.0211	0.0200		mg/L	368282	1	12/18/2023 20:34	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 20:34	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 20:34	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:34	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 20:34	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 20:34	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 20:34	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 20:34	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:34	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 20:34	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 20:34	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:34	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 20:34	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-017

Client Sample ID: GWC-24
Collection Date: 12/12/2023 2:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	20	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	1.8	1.0		mg/L	R533583	1	12/14/2023 13:34	TM
Nitrate	0.36	0.25		mg/L	R533583	1	12/14/2023 13:34	TM
Sulfate	2.7	1.0		mg/L	R533583	1	12/14/2023 23:01	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368246	1	12/15/2023 18:27	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368246	1	12/15/2023 18:27	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
2-Butanone	BRL	100		ug/L	368246	1	12/15/2023 18:27	AV
2-Hexanone	BRL	50		ug/L	368246	1	12/15/2023 18:27	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368246	1	12/15/2023 18:27	AV
Acetone	BRL	100		ug/L	368246	1	12/15/2023 18:27	AV
Acrylonitrile	BRL	50		ug/L	368246	1	12/15/2023 18:27	AV
Benzene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Bromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Bromodichloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Bromoform	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Bromomethane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Carbon disulfide	BRL	5.0		ug/L	368246	1	12/15/2023 18:27	AV
Carbon tetrachloride	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Chlorobenzene	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Chloroethane	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Chloroform	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Chloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Dibromochloromethane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Dibromomethane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Ethylbenzene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Iodomethane	BRL	100		ug/L	368246	1	12/15/2023 18:27	AV
Methylene chloride	BRL	5.0		ug/L	368246	1	12/15/2023 18:27	AV
Styrene	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV

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-24
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 2:20:00 PM
Lab ID: 2312F00-017	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	368246	1	12/15/2023 18:27	AV
Toluene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368246	1	12/15/2023 18:27	AV
Trichloroethene	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Trichlorofluoromethane	BRL	10		ug/L	368246	1	12/15/2023 18:27	AV
Vinyl acetate	BRL	100		ug/L	368246	1	12/15/2023 18:27	AV
Vinyl chloride	BRL	2.0		ug/L	368246	1	12/15/2023 18:27	AV
Xylenes, Total	BRL	5.0		ug/L	368246	1	12/15/2023 18:27	AV
Surr: 4-Bromofluorobenzene	94.9	70-126		%REC	368246	1	12/15/2023 18:27	AV
Surr: Dibromofluoromethane	106	77-121		%REC	368246	1	12/15/2023 18:27	AV
Surr: Toluene-d8	97.6	78.6-119		%REC	368246	1	12/15/2023 18:27	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	22.8	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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 MSWLF	Collection Date: 12/12/2023 4:25:00 PM
Lab ID: 2312F00-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	110	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	2.0	1.0		mg/L	R533583	1	12/14/2023 14:17	TM
Nitrate	0.41	0.25		mg/L	R533583	1	12/14/2023 14:17	TM
Sulfate	12	1.0		mg/L	R533583	1	12/14/2023 23:45	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/20/2023 11:26	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/20/2023 11:26	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
2-Butanone	BRL	100		ug/L	368347	1	12/20/2023 11:26	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/20/2023 11:26	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/20/2023 11:26	AV
Acetone	BRL	100		ug/L	368347	1	12/20/2023 11:26	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/20/2023 11:26	AV
Benzene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Bromoform	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Bromomethane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/20/2023 11:26	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Chloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Iodomethane	BRL	100		ug/L	368347	1	12/20/2023 11:26	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/20/2023 11:26	AV
Styrene	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV

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 MSWLF	Collection Date: 12/12/2023 4:25:00 PM
Lab ID: 2312F00-018	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	368347	1	12/20/2023 11:26	AV
Toluene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/20/2023 11:26	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/20/2023 11:26	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/20/2023 11:26	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/20/2023 11:26	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/20/2023 11:26	AV
Surr: 4-Bromofluorobenzene	92.3	70-126		%REC	368347	1	12/20/2023 11:26	AV
Surr: Dibromofluoromethane	104	77-121		%REC	368347	1	12/20/2023 11:26	AV
Surr: Toluene-d8	99.8	78.6-119		%REC	368347	1	12/20/2023 11:26	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	68.5	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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 MSWLF	Collection Date: 12/12/2023 12:15:00 PM
Lab ID: 2312F00-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	64	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	3.1	1.0		mg/L	R533583	1	12/14/2023 12:07	TM
Nitrate	0.31	0.25		mg/L	R533583	1	12/14/2023 12:07	TM
Sulfate	1.7	1.0		mg/L	R533583	1	12/14/2023 22:07	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/20/2023 11:50	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/20/2023 11:50	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
2-Butanone	BRL	100		ug/L	368347	1	12/20/2023 11:50	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/20/2023 11:50	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/20/2023 11:50	AV
Acetone	BRL	100		ug/L	368347	1	12/20/2023 11:50	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/20/2023 11:50	AV
Benzene	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Bromoform	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Bromomethane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/20/2023 11:50	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Chloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
cis-1,2-Dichloroethene	21	2.0		ug/L	368347	1	12/20/2023 11:50	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Iodomethane	BRL	100		ug/L	368347	1	12/20/2023 11:50	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/20/2023 11:50	AV
Styrene	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV

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 MSWLF	Collection Date: 12/12/2023 12:15:00 PM
Lab ID: 2312F00-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Tetrachloroethene	3.6	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Toluene	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/20/2023 11:50	AV
Trichloroethene	2.3	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/20/2023 11:50	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/20/2023 11:50	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/20/2023 11:50	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/20/2023 11:50	AV
Surr: 4-Bromofluorobenzene	94.3	70-126		%REC	368347	1	12/20/2023 11:50	AV
Surr: Dibromofluoromethane	106	77-121		%REC	368347	1	12/20/2023 11:50	AV
Surr: Toluene-d8	99.6	78.6-119		%REC	368347	1	12/20/2023 11:50	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	42.9	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-020

Client Sample ID: AMW-5
Collection Date: 12/12/2023 12:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	43	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	3.4	1.0		mg/L	R533583	1	12/14/2023 12:39	TM
Nitrate	BRL	0.25		mg/L	R533583	1	12/14/2023 12:39	TM
Sulfate	3.6	1.0		mg/L	R533583	1	12/14/2023 22:18	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/15/2023 22:23	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/15/2023 22:23	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
2-Butanone	BRL	100		ug/L	368347	1	12/15/2023 22:23	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/15/2023 22:23	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/15/2023 22:23	AV
Acetone	BRL	100		ug/L	368347	1	12/15/2023 22:23	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/15/2023 22:23	AV
Benzene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Bromoform	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Bromomethane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/15/2023 22:23	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Chloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Iodomethane	BRL	100		ug/L	368347	1	12/15/2023 22:23	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/15/2023 22:23	AV
Styrene	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV

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-5
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 12:45:00 PM
Lab ID: 2312F00-020	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	368347	1	12/15/2023 22:23	AV
Toluene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/15/2023 22:23	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/15/2023 22:23	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/15/2023 22:23	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/15/2023 22:23	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/15/2023 22:23	AV
Surr: 4-Bromofluorobenzene	95.8	70-126		%REC	368347	1	12/15/2023 22:23	AV
Surr: Dibromofluoromethane	103	77-121		%REC	368347	1	12/15/2023 22:23	AV
Surr: Toluene-d8	99.3	78.6-119		%REC	368347	1	12/15/2023 22:23	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	33.1	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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 MSWLF	Collection Date: 12/12/2023 2:15:00 PM
Lab ID: 2312F00-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260D				(SW5030B)			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,1-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,2,3-Trichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,2,4-Trichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	368347	1	12/15/2023 22:47	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/15/2023 22:47	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,3-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
1,3-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
2,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
2-Butanone	BRL	100		ug/L	368347	1	12/15/2023 22:47	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/15/2023 22:47	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/15/2023 22:47	AV
Acetone	BRL	100		ug/L	368347	1	12/15/2023 22:47	AV
Acetonitrile	BRL	200		ug/L	368347	1	12/18/2023 16:08	AV
Acrolein	BRL	50		ug/L	368347	1	12/15/2023 22:47	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/15/2023 22:47	AV
Allyl Chloride	BRL	100		ug/L	368347	1	12/18/2023 16:08	AV
Benzene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Bromoform	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Bromomethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/15/2023 22:47	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Chloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Chloroprene	BRL	20		ug/L	368347	1	12/18/2023 16:08	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Dichlorodifluoromethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Ethyl Methacrylate	BRL	10		ug/L	368347	1	12/18/2023 16:08	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV

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 MSWLF	Collection Date: 12/12/2023 2:15:00 PM
Lab ID: 2312F00-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260D	(SW5030B)					
Iodomethane	BRL	100		ug/L	368347	1	12/15/2023 22:47	AV
Isobutyl Alcohol	BRL	200		ug/L	368347	1	12/18/2023 16:08	AV
Methyl Methacrylate	BRL	10		ug/L	368347	1	12/18/2023 16:08	AV
Methylacrylonitrile	BRL	200		ug/L	368347	1	12/18/2023 16:08	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/15/2023 22:47	AV
Naphthalene	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Propionitrile	BRL	100		ug/L	368347	1	12/18/2023 16:08	AV
Styrene	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Toluene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/15/2023 22:47	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/15/2023 22:47	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/15/2023 22:47	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/15/2023 22:47	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/15/2023 22:47	AV
Surr: 4-Bromofluorobenzene	93.4	70-126		%REC	368347	1	12/15/2023 22:47	AV
Surr: Dibromofluoromethane	106	77-121		%REC	368347	1	12/15/2023 22:47	AV
Surr: Toluene-d8	98.8	78.6-119		%REC	368347	1	12/15/2023 22:47	AV

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-022

Client Sample ID: AMW-12R
Collection Date: 12/12/2023 3:08:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260D				(SW5030B)			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,1-Dichloroethane	2.3	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,1-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,2,3-Trichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,2,4-Trichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	368347	1	12/15/2023 23:10	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/15/2023 23:10	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,3-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
1,3-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
2,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
2-Butanone	BRL	100		ug/L	368347	1	12/15/2023 23:10	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/15/2023 23:10	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/15/2023 23:10	AV
Acetone	BRL	100		ug/L	368347	1	12/15/2023 23:10	AV
Acetonitrile	BRL	200		ug/L	368347	1	12/18/2023 16:32	AV
Acrolein	BRL	50		ug/L	368347	1	12/15/2023 23:10	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/15/2023 23:10	AV
Allyl Chloride	BRL	100		ug/L	368347	1	12/18/2023 16:32	AV
Benzene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Bromoform	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Bromomethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/15/2023 23:10	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Chloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Chloroprene	BRL	20		ug/L	368347	1	12/18/2023 16:32	AV
cis-1,2-Dichloroethene	2.8	2.0		ug/L	368347	1	12/15/2023 23:10	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Dichlorodifluoromethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Ethyl Methacrylate	BRL	10		ug/L	368347	1	12/18/2023 16:32	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV

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-12R
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 3:08:00 PM
Lab ID: 2312F00-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260D				(SW5030B)			
Iodomethane	BRL	100		ug/L	368347	1	12/15/2023 23:10	AV
Isobutyl Alcohol	BRL	200		ug/L	368347	1	12/18/2023 16:32	AV
Methyl Methacrylate	BRL	10		ug/L	368347	1	12/18/2023 16:32	AV
Methylacrylonitrile	BRL	200		ug/L	368347	1	12/18/2023 16:32	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/15/2023 23:10	AV
Naphthalene	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Propionitrile	BRL	100		ug/L	368347	1	12/18/2023 16:32	AV
Styrene	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Tetrachloroethene	8.7	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Toluene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/15/2023 23:10	AV
Trichloroethene	2.1	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/15/2023 23:10	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/15/2023 23:10	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/15/2023 23:10	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/15/2023 23:10	AV
Surr: 4-Bromofluorobenzene	94.6	70-126		%REC	368347	1	12/15/2023 23:10	AV
Surr: Dibromofluoromethane	106	77-121		%REC	368347	1	12/15/2023 23:10	AV
Surr: Toluene-d8	99.1	78.6-119		%REC	368347	1	12/15/2023 23:10	AV

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 MSWLF	Collection Date: 12/12/2023 3:00:00 PM
Lab ID: 2312F00-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	43	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	3.6	1.0		mg/L	R533583	1	12/14/2023 13:55	TM
Nitrate	0.36	0.25		mg/L	R533583	1	12/14/2023 13:55	TM
Sulfate	3.2	1.0		mg/L	R533583	1	12/14/2023 23:23	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/15/2023 23:34	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/15/2023 23:34	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
2-Butanone	BRL	100		ug/L	368347	1	12/15/2023 23:34	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/15/2023 23:34	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/15/2023 23:34	AV
Acetone	BRL	100		ug/L	368347	1	12/15/2023 23:34	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/15/2023 23:34	AV
Benzene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Bromoform	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Bromomethane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/15/2023 23:34	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Chloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Iodomethane	BRL	100		ug/L	368347	1	12/15/2023 23:34	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/15/2023 23:34	AV
Styrene	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV

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 MSWLF	Collection Date: 12/12/2023 3:00:00 PM
Lab ID: 2312F00-023	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	368347	1	12/15/2023 23:34	AV
Toluene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/15/2023 23:34	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/15/2023 23:34	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/15/2023 23:34	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/15/2023 23:34	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/15/2023 23:34	AV
Surr: 4-Bromofluorobenzene	93.4	70-126		%REC	368347	1	12/15/2023 23:34	AV
Surr: Dibromofluoromethane	106	77-121		%REC	368347	1	12/15/2023 23:34	AV
Surr: Toluene-d8	97.2	78.6-119		%REC	368347	1	12/15/2023 23:34	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	35.2	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-024

Client Sample ID: FIELD BLANK-2
Collection Date: 12/12/2023 2:30:00 PM
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	368347	1	12/15/2023 23:58	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/15/2023 23:58	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/15/2023 23:58	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
2-Butanone	BRL	100		ug/L	368347	1	12/15/2023 23:58	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/15/2023 23:58	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/15/2023 23:58	AV
Acetone	BRL	100		ug/L	368347	1	12/15/2023 23:58	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/15/2023 23:58	AV
Benzene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Bromoform	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Bromomethane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/15/2023 23:58	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Chloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Iodomethane	BRL	100		ug/L	368347	1	12/15/2023 23:58	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/15/2023 23:58	AV
Styrene	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Toluene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/15/2023 23:58	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/15/2023 23:58	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/15/2023 23:58	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/15/2023 23:58	AV

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 MSWLF	Collection Date: 12/12/2023 2:30:00 PM
Lab ID: 2312F00-024	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	368347	1	12/15/2023 23:58	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/15/2023 23:58	AV
Surr: 4-Bromofluorobenzene	95.2	70-126		%REC	368347	1	12/15/2023 23:58	AV
Surr: Dibromofluoromethane	103	77-121		%REC	368347	1	12/15/2023 23:58	AV
Surr: Toluene-d8	97.1	78.6-119		%REC	368347	1	12/15/2023 23:58	AV
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368282	1	12/18/2023 20:37	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 20:37	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:37	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 20:37	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 20:37	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:37	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 20:37	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 20:37	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 20:37	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 20:37	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:37	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 20:37	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 20:37	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:37	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 20:37	AD

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 MSWLF	Collection Date:	12/13/2023 9:35:00 AM
Lab ID:	2312F00-025	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	368282	1	12/18/2023 20:54	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 20:54	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:54	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 20:54	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 20:54	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:54	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 20:54	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 20:54	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 20:54	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 20:54	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:54	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 20:54	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 20:54	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:54	AD
Zinc	0.0274	0.0200		mg/L	368282	1	12/18/2023 20:54	AD

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 MSWLF	Collection Date: 12/13/2023 9:50:00 AM
Lab ID: 2312F00-026	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	368282	1	12/18/2023 20:56	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 20:56	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:56	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 20:56	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 20:56	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:56	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 20:56	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 20:56	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 20:56	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 20:56	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:56	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 20:56	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 20:56	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:56	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 20:56	AD

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-1
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 10:05:00 AM
Lab ID: 2312F00-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS	SW6020B				(SW3005A)			
Antimony	BRL	0.00600		mg/L	368282	1	12/18/2023 20:59	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 20:59	AD
Barium	0.112	0.0200		mg/L	368282	1	12/18/2023 20:59	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 20:59	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 20:59	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:59	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 20:59	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 20:59	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 20:59	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 20:59	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 20:59	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 20:59	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 20:59	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 20:59	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 20:59	AD

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 MSWLF	Collection Date: 12/12/2023 9:50:00 AM
Lab ID: 2312F00-028	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	368282	1	12/18/2023 21:01	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:01	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:01	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:01	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:01	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:01	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:01	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:01	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:01	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:01	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:01	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:01	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:01	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:01	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:01	AD

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 MSWLF	Collection Date: 12/12/2023 11:30:00 AM
Lab ID: 2312F00-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
	SW6020B				(SW3005A)			
Antimony	BRL	0.00600		mg/L	368282	1	12/18/2023 21:03	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:03	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:03	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:03	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:03	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:03	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:03	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:03	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:03	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:03	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:03	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:03	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:03	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:03	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:03	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-030

Client Sample ID: GWC-3A
Collection Date: 12/12/2023 11:42:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 00:21	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 00:21	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 00:21	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 00:21	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 00:21	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 00:21	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 00:21	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 00:21	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 00:21	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 00:21	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 00:21	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:21	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 00:21	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 00:21	AV

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-3A
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 11:42:00 AM
Lab ID: 2312F00-030	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	368347	1	12/16/2023 00:21	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 00:21	AV
Surr: 4-Bromofluorobenzene	95.8	70-126		%REC	368347	1	12/16/2023 00:21	AV
Surr: Dibromofluoromethane	106	77-121		%REC	368347	1	12/16/2023 00:21	AV
Surr: Toluene-d8	97.4	78.6-119		%REC	368347	1	12/16/2023 00:21	AV

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-4
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 12:20:00 PM
Lab ID: 2312F00-031	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	368347	1	12/16/2023 00:45	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 00:45	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 00:45	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 00:45	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 00:45	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 00:45	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 00:45	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 00:45	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 00:45	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 00:45	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 00:45	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 00:45	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 00:45	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 00:45	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 00:45	AV

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 MSWLF	Collection Date: 12/12/2023 12:20:00 PM
Lab ID: 2312F00-031	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	368347	1	12/16/2023 00:45	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 00:45	AV
Surr: 4-Bromofluorobenzene	96.8	70-126		%REC	368347	1	12/16/2023 00:45	AV
Surr: Dibromofluoromethane	105	77-121		%REC	368347	1	12/16/2023 00:45	AV
Surr: Toluene-d8	98.8	78.6-119		%REC	368347	1	12/16/2023 00:45	AV

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 MSWLF	Collection Date: 12/12/2023 1:10:00 PM
Lab ID: 2312F00-032	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 01:08	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 01:08	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 01:08	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 01:08	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 01:08	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 01:08	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 01:08	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 01:08	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
cis-1,2-Dichloroethene	9.1	2.0		ug/L	368347	1	12/16/2023 01:08	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 01:08	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 01:08	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 01:08	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:08	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 01:08	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 01:08	AV

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 MSWLF	Collection Date:	12/12/2023 1:10:00 PM
Lab ID:	2312F00-032	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	368347	1	12/16/2023 01:08	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 01:08	AV
Surr: 4-Bromofluorobenzene	96.6	70-126		%REC	368347	1	12/16/2023 01:08	AV
Surr: Dibromofluoromethane	107	77-121		%REC	368347	1	12/16/2023 01:08	AV
Surr: Toluene-d8	99.6	78.6-119		%REC	368347	1	12/16/2023 01:08	AV

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 MSWLF	Collection Date: 12/12/2023 10:11:00 AM
Lab ID: 2312F00-033	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	368282	1	12/18/2023 21:06	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:06	AD
Barium	0.0936	0.0200		mg/L	368282	1	12/18/2023 21:06	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:06	AD
Cadmium	BRL	0.00500		mg/L	369029	1	01/03/2024 13:27	IF
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:06	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:06	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:06	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:06	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:06	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:06	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:06	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:06	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:06	AD
Zinc	0.0480	0.0200		mg/L	368282	1	12/18/2023 21:06	AD

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 MSWLF	Collection Date: 12/12/2023 10:20:00 AM
Lab ID: 2312F00-034	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	368282	1	12/18/2023 21:08	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:08	AD
Barium	0.0293	0.0200		mg/L	368282	1	12/18/2023 21:08	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:08	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:08	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:08	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:08	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:08	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:08	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:08	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:08	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:08	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:08	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:08	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:08	AD

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 MSWLF	Collection Date: 12/12/2023 10:25:00 AM
Lab ID: 2312F00-035	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	368282	1	12/18/2023 21:11	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:11	AD
Barium	0.0381	0.0200		mg/L	368282	1	12/18/2023 21:11	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:11	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:11	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:11	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:11	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:11	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:11	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:11	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:11	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:11	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:11	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:11	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:11	AD

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-11
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 10:35:00 AM
Lab ID: 2312F00-036	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	368282	1	12/18/2023 21:13	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:13	AD
Barium	0.0278	0.0200		mg/L	368282	1	12/18/2023 21:13	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:13	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:13	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:13	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:13	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:13	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:13	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:13	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:13	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:13	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:13	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:13	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:13	AD

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 MSWLF	Collection Date: 12/12/2023 3:15:00 PM
Lab ID: 2312F00-037	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	58	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	4.8	1.0		mg/L	R533583	1	12/14/2023 14:06	TM
Nitrate	1.2	0.25		mg/L	R533583	1	12/14/2023 14:06	TM
Sulfate	1.9	1.0		mg/L	R533583	1	12/14/2023 23:34	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 01:32	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 01:32	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 01:32	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 01:32	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 01:32	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 01:32	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 01:32	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 01:32	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
cis-1,2-Dichloroethene	26	2.0		ug/L	368347	1	12/16/2023 01:32	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 01:32	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 01:32	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV

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 MSWLF	Collection Date: 12/12/2023 3:15:00 PM
Lab ID: 2312F00-037	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Tetrachloroethene	2.3	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 01:32	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 01:32	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 01:32	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/16/2023 01:32	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 01:32	AV
Surr: 4-Bromofluorobenzene	95.4	70-126		%REC	368347	1	12/16/2023 01:32	AV
Surr: Dibromofluoromethane	105	77-121		%REC	368347	1	12/16/2023 01:32	AV
Surr: Toluene-d8	94.8	78.6-119		%REC	368347	1	12/16/2023 01:32	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	30.4	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-038

Client Sample ID: GWC-22
Collection Date: 12/11/2023 1:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 01:55	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 01:55	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 01:55	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 01:55	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 01:55	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 01:55	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 01:55	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 01:55	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 01:55	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 01:55	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 01:55	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 01:55	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 01:55	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 01:55	AV

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 MSWLF	Collection Date: 12/11/2023 1:30:00 PM
Lab ID: 2312F00-038	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	368347	1	12/16/2023 01:55	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 01:55	AV
Surr: 4-Bromofluorobenzene	92.6	70-126		%REC	368347	1	12/16/2023 01:55	AV
Surr: Dibromofluoromethane	108	77-121		%REC	368347	1	12/16/2023 01:55	AV
Surr: Toluene-d8	99.8	78.6-119		%REC	368347	1	12/16/2023 01:55	AV

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 MSWLF	Collection Date: 12/12/2023 11:55:00 AM
Lab ID: 2312F00-039	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368282	1	12/18/2023 21:16	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:16	AD
Barium	0.0237	0.0200		mg/L	368282	1	12/18/2023 21:16	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:16	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:16	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:16	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:16	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:16	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:16	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:16	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:16	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:16	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:16	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:16	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:16	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-040

Client Sample ID: GWC-23
Collection Date: 12/11/2023 1:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 02:19	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 02:19	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 02:19	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 02:19	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 02:19	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 02:19	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 02:19	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 02:19	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 02:19	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 02:19	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 02:19	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 02:19	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 02:19	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 02:19	AV

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-23
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/11/2023 1:00:00 PM
Lab ID: 2312F00-040	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	368347	1	12/16/2023 02:19	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 02:19	AV
Surr: 4-Bromofluorobenzene	94.6	70-126		%REC	368347	1	12/16/2023 02:19	AV
Surr: Dibromofluoromethane	104	77-121		%REC	368347	1	12/16/2023 02:19	AV
Surr: Toluene-d8	96.5	78.6-119		%REC	368347	1	12/16/2023 02:19	AV

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 MSWLF	Collection Date: 12/12/2023 11:45:00 AM
Lab ID: 2312F00-041	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	368282	1	12/18/2023 21:33	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:33	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:33	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:33	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:33	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:33	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:33	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:33	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:33	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:33	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:33	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:33	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:33	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:33	AD
Zinc	0.0340	0.0200		mg/L	368282	1	12/18/2023 21:33	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-042

Client Sample ID: PH1-GWC-3
Collection Date: 12/13/2023 11:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	82	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	4.5	1.0		mg/L	R533482	1	12/13/2023 18:54	TM
Nitrate	BRL	0.25		mg/L	R533482	1	12/13/2023 18:54	TM
Sulfate	2.7	1.0		mg/L	R533482	1	12/13/2023 18:54	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,1-Dichloroethane	4.3	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/18/2023 17:44	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/18/2023 17:44	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
2-Butanone	BRL	100		ug/L	368347	1	12/18/2023 17:44	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/18/2023 17:44	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/18/2023 17:44	AV
Acetone	BRL	100		ug/L	368347	1	12/18/2023 17:44	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/18/2023 17:44	AV
Benzene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Bromoform	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Bromomethane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/18/2023 17:44	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Chloromethane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Iodomethane	BRL	100		ug/L	368347	1	12/18/2023 17:44	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/18/2023 17:44	AV
Styrene	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV

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-GWC-3
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 11:15:00 AM
Lab ID: 2312F00-042	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Tetrachloroethene	6.3	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Toluene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/18/2023 17:44	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/18/2023 17:44	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/18/2023 17:44	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/18/2023 17:44	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/18/2023 17:44	AV
Surr: 4-Bromofluorobenzene	95.4	70-126		%REC	368347	1	12/18/2023 17:44	AV
Surr: Dibromofluoromethane	105	77-121		%REC	368347	1	12/18/2023 17:44	AV
Surr: Toluene-d8	99.7	78.6-119		%REC	368347	1	12/18/2023 17:44	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	74.0	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-043

Client Sample ID: PH1-GWC-3A
Collection Date: 12/13/2023 12:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	101	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	2.2	1.0		mg/L	R533482	1	12/13/2023 19:05	TM
Nitrate	BRL	0.25		mg/L	R533482	1	12/13/2023 19:05	TM
Sulfate	1.7	1.0		mg/L	R533482	1	12/13/2023 19:05	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,1-Dichloroethane	2.5	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 03:06	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 03:06	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 03:06	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 03:06	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 03:06	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 03:06	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 03:06	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 03:06	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
cis-1,2-Dichloroethene	15	2.0		ug/L	368347	1	12/16/2023 03:06	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 03:06	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 03:06	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV

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-GWC-3A
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 12:15:00 PM
Lab ID: 2312F00-043	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Tetrachloroethene	2.5	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 03:06	AV
Trichloroethene	7.4	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 03:06	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 03:06	AV
Vinyl chloride	BRL	2.0		ug/L	368347	1	12/16/2023 03:06	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 03:06	AV
Surr: 4-Bromofluorobenzene	94.5	70-126		%REC	368347	1	12/16/2023 03:06	AV
Surr: Dibromofluoromethane	101	77-121		%REC	368347	1	12/16/2023 03:06	AV
Surr: Toluene-d8	96.9	78.6-119		%REC	368347	1	12/16/2023 03:06	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	93.5	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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 MSWLF	Collection Date: 12/13/2023 11:00:00 AM
Lab ID: 2312F00-044	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	368347	1	12/16/2023 03:30	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 03:30	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 03:30	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 03:30	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 03:30	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 03:30	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 03:30	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 03:30	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 03:30	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 03:30	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 03:30	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 03:30	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:30	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 03:30	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 03:30	AV

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 MSWLF	Collection Date: 12/13/2023 11:00:00 AM
Lab ID: 2312F00-044	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	368347	1	12/16/2023 03:30	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 03:30	AV
Surr: 4-Bromofluorobenzene	94.8	70-126		%REC	368347	1	12/16/2023 03:30	AV
Surr: Dibromofluoromethane	108	77-121		%REC	368347	1	12/16/2023 03:30	AV
Surr: Toluene-d8	99.7	78.6-119		%REC	368347	1	12/16/2023 03:30	AV
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368282	1	12/18/2023 21:35	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:35	AD
Barium	0.0405	0.0200		mg/L	368282	1	12/18/2023 21:35	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:35	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:35	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:35	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:35	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:35	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:35	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:35	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:35	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:35	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:35	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:35	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:35	AD

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 MSWLF	Collection Date:	12/13/2023 9:30:00 AM
Lab ID:	2312F00-045	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	368282	1	12/18/2023 21:37	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:37	AD
Barium	0.0432	0.0200		mg/L	368282	1	12/18/2023 21:37	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:37	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:37	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:37	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:37	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:37	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:37	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:37	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:37	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:37	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:37	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:37	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:37	AD

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-4
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 9:51:00 AM
Lab ID: 2312F00-046	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	368282	1	12/18/2023 21:40	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:40	AD
Barium	0.0242	0.0200		mg/L	368282	1	12/18/2023 21:40	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:40	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:40	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:40	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:40	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:40	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:40	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:40	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:40	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:40	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:40	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:40	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:40	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-047

Client Sample ID: GWC-4A
Collection Date: 12/13/2023 11:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 03:54	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 03:54	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 03:54	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 03:54	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 03:54	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 03:54	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 03:54	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 03:54	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 03:54	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 03:54	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 03:54	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 03:54	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 03:54	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 03:54	AV

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 MSWLF	Collection Date: 12/13/2023 11:55:00 AM
Lab ID: 2312F00-047	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	368347	1	12/16/2023 03:54	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 03:54	AV
Surr: 4-Bromofluorobenzene	95.6	70-126		%REC	368347	1	12/16/2023 03:54	AV
Surr: Dibromofluoromethane	108	77-121		%REC	368347	1	12/16/2023 03:54	AV
Surr: Toluene-d8	101	78.6-119		%REC	368347	1	12/16/2023 03:54	AV
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368282	1	12/18/2023 21:42	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:42	AD
Barium	0.0457	0.0200		mg/L	368282	1	12/18/2023 21:42	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:42	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:42	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:42	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:42	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:42	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:42	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:42	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:42	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:42	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:42	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:42	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:42	AD

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 MSWLF	Collection Date: 12/13/2023 9:40:00 AM
Lab ID: 2312F00-048	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	368282	1	12/18/2023 21:45	AD
Arsenic	BRL	0.0100		mg/L	368282	1	12/18/2023 21:45	AD
Barium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:45	AD
Beryllium	BRL	0.00300		mg/L	368282	1	12/18/2023 21:45	AD
Cadmium	BRL	0.00500		mg/L	368282	1	12/18/2023 21:45	AD
Chromium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:45	AD
Cobalt	BRL	0.0400		mg/L	368282	1	12/18/2023 21:45	AD
Copper	BRL	0.0200		mg/L	368282	1	12/18/2023 21:45	AD
Lead	BRL	0.0150		mg/L	368282	1	12/18/2023 21:45	AD
Nickel	BRL	0.0200		mg/L	368282	1	12/18/2023 21:45	AD
Selenium	BRL	0.0100		mg/L	368282	1	12/18/2023 21:45	AD
Silver	BRL	0.0100		mg/L	368282	1	12/18/2023 21:45	AD
Thallium	BRL	0.00200		mg/L	368282	1	12/18/2023 21:45	AD
Vanadium	BRL	0.0200		mg/L	368282	1	12/18/2023 21:45	AD
Zinc	BRL	0.0200		mg/L	368282	1	12/18/2023 21:45	AD

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 MSWLF	Collection Date: 12/13/2023 9:45:00 AM
Lab ID: 2312F00-049	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	368284	1	12/18/2023 22:06	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:06	AD
Barium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:06	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:06	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:06	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:06	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:06	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:06	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:06	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:06	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:06	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:06	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:06	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:06	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:06	AD

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-13
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 9:30:00 AM
Lab ID: 2312F00-050	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	368284	1	12/18/2023 22:19	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:19	AD
Barium	0.0218	0.0200		mg/L	368284	1	12/18/2023 22:19	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:19	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:19	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:19	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:19	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:19	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:19	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:19	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:19	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:19	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:19	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:19	AD
Zinc	0.0223	0.0200		mg/L	368284	1	12/18/2023 22:19	AD

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-8
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 10:10:00 AM
Lab ID: 2312F00-051	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	368284	1	12/18/2023 22:21	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:21	AD
Barium	0.0398	0.0200		mg/L	368284	1	12/18/2023 22:21	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:21	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:21	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:21	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:21	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:21	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:21	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:21	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:21	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:21	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:21	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:21	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:21	AD

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 MSWLF	Collection Date: 12/13/2023 10:10:00 AM
Lab ID: 2312F00-052	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	368284	1	12/18/2023 22:23	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:23	AD
Barium	0.187	0.0200		mg/L	368284	1	12/18/2023 22:23	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:23	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:23	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:23	AD
Cobalt	0.174	0.0400		mg/L	368284	1	12/18/2023 22:23	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:23	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:23	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:23	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:23	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:23	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:23	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:23	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:23	AD

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 MSWLF	Collection Date: 12/13/2023 10:40:00 AM
Lab ID: 2312F00-053	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	368284	1	12/18/2023 22:40	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:40	AD
Barium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:40	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:40	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:40	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:40	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:40	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:40	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:40	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:40	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:40	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:40	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:40	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:40	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:40	AD

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 MSWLF	Collection Date: 12/13/2023 10:30:00 AM
Lab ID: 2312F00-054	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	368284	1	12/18/2023 22:43	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:43	AD
Barium	0.0263	0.0200		mg/L	368284	1	12/18/2023 22:43	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:43	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:43	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:43	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:43	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:43	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:43	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:43	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:43	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:43	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:43	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:43	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:43	AD

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-055

Client Sample ID: FIELD BLANK-1
Collection Date: 12/13/2023 1:35:00 PM
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	368347	1	12/16/2023 04:17	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 04:17	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 04:17	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 04:17	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 04:17	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 04:17	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 04:17	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 04:17	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 04:17	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 04:17	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 04:17	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 04:17	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:17	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 04:17	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 04:17	AV

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-1
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 1:35:00 PM
Lab ID: 2312F00-055	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	368347	1	12/16/2023 04:17	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 04:17	AV
Surr: 4-Bromofluorobenzene	94	70-126		%REC	368347	1	12/16/2023 04:17	AV
Surr: Dibromofluoromethane	104	77-121		%REC	368347	1	12/16/2023 04:17	AV
Surr: Toluene-d8	98.8	78.6-119		%REC	368347	1	12/16/2023 04:17	AV
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368284	1	12/18/2023 22:45	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:45	AD
Barium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:45	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:45	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:45	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:45	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:45	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:45	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:45	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:45	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:45	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:45	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:45	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:45	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:45	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-056

Client Sample ID: GWC-11
Collection Date: 12/11/2023 4:27:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 04:41	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 04:41	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 04:41	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 04:41	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 04:41	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 04:41	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 04:41	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 04:41	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 04:41	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 04:41	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 04:41	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 04:41	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 04:41	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 04:41	AV

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-11
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/11/2023 4:27:00 PM
Lab ID: 2312F00-056	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	368347	1	12/16/2023 04:41	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 04:41	AV
Surr: 4-Bromofluorobenzene	93.1	70-126		%REC	368347	1	12/16/2023 04:41	AV
Surr: Dibromofluoromethane	109	77-121		%REC	368347	1	12/16/2023 04:41	AV
Surr: Toluene-d8	98.5	78.6-119		%REC	368347	1	12/16/2023 04:41	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-057

Client Sample ID: GWC-12
Collection Date: 12/12/2023 11:37:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368347	1	12/16/2023 05:04	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368347	1	12/16/2023 05:04	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
2-Butanone	BRL	100		ug/L	368347	1	12/16/2023 05:04	AV
2-Hexanone	BRL	50		ug/L	368347	1	12/16/2023 05:04	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368347	1	12/16/2023 05:04	AV
Acetone	BRL	100		ug/L	368347	1	12/16/2023 05:04	AV
Acrylonitrile	BRL	50		ug/L	368347	1	12/16/2023 05:04	AV
Benzene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Bromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Bromodichloromethane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Bromoform	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Bromomethane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Carbon disulfide	BRL	5.0		ug/L	368347	1	12/16/2023 05:04	AV
Carbon tetrachloride	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Chlorobenzene	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Chloroethane	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Chloroform	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Chloromethane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Dibromochloromethane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Dibromomethane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Ethylbenzene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Iodomethane	BRL	100		ug/L	368347	1	12/16/2023 05:04	AV
Methylene chloride	BRL	5.0		ug/L	368347	1	12/16/2023 05:04	AV
Styrene	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Tetrachloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Toluene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368347	1	12/16/2023 05:04	AV
Trichloroethene	BRL	2.0		ug/L	368347	1	12/16/2023 05:04	AV
Trichlorofluoromethane	BRL	10		ug/L	368347	1	12/16/2023 05:04	AV
Vinyl acetate	BRL	100		ug/L	368347	1	12/16/2023 05:04	AV

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-12
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 11:37:00 AM
Lab ID: 2312F00-057	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	368347	1	12/16/2023 05:04	AV
Xylenes, Total	BRL	5.0		ug/L	368347	1	12/16/2023 05:04	AV
Surr: 4-Bromofluorobenzene	93.8	70-126		%REC	368347	1	12/16/2023 05:04	AV
Surr: Dibromofluoromethane	104	77-121		%REC	368347	1	12/16/2023 05:04	AV
Surr: Toluene-d8	98.6	78.6-119		%REC	368347	1	12/16/2023 05:04	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-058

Client Sample ID: GWC-12A
Collection Date: 12/12/2023 12:17:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368355	1	12/15/2023 15:57	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368355	1	12/15/2023 15:57	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
2-Butanone	BRL	100		ug/L	368355	1	12/15/2023 15:57	AV
2-Hexanone	BRL	50		ug/L	368355	1	12/15/2023 15:57	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368355	1	12/15/2023 15:57	AV
Acetone	BRL	100		ug/L	368355	1	12/15/2023 15:57	AV
Acrylonitrile	BRL	50		ug/L	368355	1	12/15/2023 15:57	AV
Benzene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Bromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Bromodichloromethane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Bromoform	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Bromomethane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Carbon disulfide	BRL	5.0		ug/L	368355	1	12/15/2023 15:57	AV
Carbon tetrachloride	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Chlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Chloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Chloroform	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Chloromethane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Dibromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Dibromomethane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Ethylbenzene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Iodomethane	BRL	100		ug/L	368355	1	12/15/2023 15:57	AV
Methylene chloride	BRL	5.0		ug/L	368355	1	12/15/2023 15:57	AV
Styrene	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Tetrachloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Toluene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368355	1	12/15/2023 15:57	AV
Trichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 15:57	AV
Trichlorofluoromethane	BRL	10		ug/L	368355	1	12/15/2023 15:57	AV
Vinyl acetate	BRL	100		ug/L	368355	1	12/15/2023 15:57	AV

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 MSWLF	Collection Date: 12/12/2023 12:17:00 PM
Lab ID: 2312F00-058	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	368355	1	12/15/2023 15:57	AV
Xylenes, Total	BRL	5.0		ug/L	368355	1	12/15/2023 15:57	AV
Surr: 4-Bromofluorobenzene	99.1	70-126		%REC	368355	1	12/15/2023 15:57	AV
Surr: Dibromofluoromethane	99	77-121		%REC	368355	1	12/15/2023 15:57	AV
Surr: Toluene-d8	98.8	78.6-119		%REC	368355	1	12/15/2023 15:57	AV

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-059

Client Sample ID: GWC-13
Collection Date: 12/12/2023 11:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368355	1	12/15/2023 16:22	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368355	1	12/15/2023 16:22	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
2-Butanone	BRL	100		ug/L	368355	1	12/15/2023 16:22	AV
2-Hexanone	BRL	50		ug/L	368355	1	12/15/2023 16:22	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368355	1	12/15/2023 16:22	AV
Acetone	BRL	100		ug/L	368355	1	12/15/2023 16:22	AV
Acrylonitrile	BRL	50		ug/L	368355	1	12/15/2023 16:22	AV
Benzene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Bromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Bromodichloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Bromoform	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Bromomethane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Carbon disulfide	BRL	5.0		ug/L	368355	1	12/15/2023 16:22	AV
Carbon tetrachloride	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Chlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Chloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Chloroform	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Chloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Dibromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Dibromomethane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Ethylbenzene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Iodomethane	BRL	100		ug/L	368355	1	12/15/2023 16:22	AV
Methylene chloride	BRL	5.0		ug/L	368355	1	12/15/2023 16:22	AV
Styrene	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Tetrachloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Toluene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368355	1	12/15/2023 16:22	AV
Trichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:22	AV
Trichlorofluoromethane	BRL	10		ug/L	368355	1	12/15/2023 16:22	AV
Vinyl acetate	BRL	100		ug/L	368355	1	12/15/2023 16:22	AV

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-13
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 11:15:00 AM
Lab ID: 2312F00-059	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	368355	1	12/15/2023 16:22	AV
Xylenes, Total	BRL	5.0		ug/L	368355	1	12/15/2023 16:22	AV
Surr: 4-Bromofluorobenzene	98.4	70-126		%REC	368355	1	12/15/2023 16:22	AV
Surr: Dibromofluoromethane	99.8	77-121		%REC	368355	1	12/15/2023 16:22	AV
Surr: Toluene-d8	98.2	78.6-119		%REC	368355	1	12/15/2023 16:22	AV

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 MSWLF	Collection Date: 12/12/2023 12:26:00 PM
Lab ID: 2312F00-060	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	368355	1	12/15/2023 16:46	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368355	1	12/15/2023 16:46	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368355	1	12/15/2023 16:46	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
2-Butanone	BRL	100		ug/L	368355	1	12/15/2023 16:46	AV
2-Hexanone	BRL	50		ug/L	368355	1	12/15/2023 16:46	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368355	1	12/15/2023 16:46	AV
Acetone	BRL	100		ug/L	368355	1	12/15/2023 16:46	AV
Acrylonitrile	BRL	50		ug/L	368355	1	12/15/2023 16:46	AV
Benzene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Bromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Bromodichloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Bromoform	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Bromomethane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Carbon disulfide	BRL	5.0		ug/L	368355	1	12/15/2023 16:46	AV
Carbon tetrachloride	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Chlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Chloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Chloroform	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Chloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Dibromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Dibromomethane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Ethylbenzene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Iodomethane	BRL	100		ug/L	368355	1	12/15/2023 16:46	AV
Methylene chloride	BRL	5.0		ug/L	368355	1	12/15/2023 16:46	AV
Styrene	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Tetrachloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Toluene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368355	1	12/15/2023 16:46	AV
Trichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 16:46	AV
Trichlorofluoromethane	BRL	10		ug/L	368355	1	12/15/2023 16:46	AV
Vinyl acetate	BRL	100		ug/L	368355	1	12/15/2023 16:46	AV

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 MSWLF	Collection Date: 12/12/2023 12:26:00 PM
Lab ID: 2312F00-060	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	368355	1	12/15/2023 16:46	AV
Xylenes, Total	BRL	5.0		ug/L	368355	1	12/15/2023 16:46	AV
Surr: 4-Bromofluorobenzene	100	70-126		%REC	368355	1	12/15/2023 16:46	AV
Surr: Dibromofluoromethane	97.6	77-121		%REC	368355	1	12/15/2023 16:46	AV
Surr: Toluene-d8	97.4	78.6-119		%REC	368355	1	12/15/2023 16:46	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-061

Client Sample ID: GWC-14A
Collection Date: 12/12/2023 1:17:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	143	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	16	1.0		mg/L	R533583	1	12/14/2023 13:01	TM
Nitrate	BRL	0.25		mg/L	R533583	1	12/14/2023 13:01	TM
Sulfate	3.9	1.0		mg/L	R533583	1	12/14/2023 22:39	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,1-Dichloroethane	17	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368355	1	12/15/2023 17:11	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368355	1	12/15/2023 17:11	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
2-Butanone	BRL	100		ug/L	368355	1	12/15/2023 17:11	AV
2-Hexanone	BRL	50		ug/L	368355	1	12/15/2023 17:11	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368355	1	12/15/2023 17:11	AV
Acetone	BRL	100		ug/L	368355	1	12/15/2023 17:11	AV
Acrylonitrile	BRL	50		ug/L	368355	1	12/15/2023 17:11	AV
Benzene	3.4	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Bromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
Bromodichloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
Bromoform	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
Bromomethane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
Carbon disulfide	BRL	5.0		ug/L	368355	1	12/15/2023 17:11	AV
Carbon tetrachloride	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Chlorobenzene	13	10		ug/L	368355	1	12/15/2023 17:11	AV
Chloroethane	5.5	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Chloroform	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Chloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
cis-1,2-Dichloroethene	82	2.0		ug/L	368355	1	12/15/2023 17:11	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Dibromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
Dibromomethane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
Ethylbenzene	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Iodomethane	BRL	100		ug/L	368355	1	12/15/2023 17:11	AV
Methylene chloride	BRL	5.0		ug/L	368355	1	12/15/2023 17:11	AV
Styrene	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV

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 MSWLF	Collection Date: 12/12/2023 1:17:00 PM
Lab ID: 2312F00-061	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	368355	1	12/15/2023 17:11	AV
Toluene	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 17:11	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368355	1	12/15/2023 17:11	AV
Trichloroethene	2.6	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Trichlorofluoromethane	BRL	10		ug/L	368355	1	12/15/2023 17:11	AV
Vinyl acetate	BRL	100		ug/L	368355	1	12/15/2023 17:11	AV
Vinyl chloride	16	2.0		ug/L	368355	1	12/15/2023 17:11	AV
Xylenes, Total	BRL	5.0		ug/L	368355	1	12/15/2023 17:11	AV
Surr: 4-Bromofluorobenzene	100	70-126		%REC	368355	1	12/15/2023 17:11	AV
Surr: Dibromofluoromethane	97.8	77-121		%REC	368355	1	12/15/2023 17:11	AV
Surr: Toluene-d8	98.9	78.6-119		%REC	368355	1	12/15/2023 17:11	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	150	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-062

Client Sample ID: GWC-8R
Collection Date: 12/12/2023 2:55:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	143	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	2.5	1.0		mg/L	R533583	1	12/14/2023 13:45	TM
Nitrate	BRL	0.25		mg/L	R533583	1	12/14/2023 13:45	TM
Sulfate	3.3	1.0		mg/L	R533583	1	12/14/2023 23:12	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,1-Dichloroethane	8.5	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368355	1	12/15/2023 17:36	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368355	1	12/15/2023 17:36	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
2-Butanone	BRL	100		ug/L	368355	1	12/15/2023 17:36	AV
2-Hexanone	BRL	50		ug/L	368355	1	12/15/2023 17:36	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368355	1	12/15/2023 17:36	AV
Acetone	BRL	100		ug/L	368355	1	12/15/2023 17:36	AV
Acrylonitrile	BRL	50		ug/L	368355	1	12/15/2023 17:36	AV
Benzene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Bromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Bromodichloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Bromoform	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Bromomethane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Carbon disulfide	BRL	5.0		ug/L	368355	1	12/15/2023 17:36	AV
Carbon tetrachloride	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Chlorobenzene	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Chloroethane	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Chloroform	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Chloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
cis-1,2-Dichloroethene	29	2.0		ug/L	368355	1	12/15/2023 17:36	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Dibromochloromethane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Dibromomethane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Ethylbenzene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Iodomethane	BRL	100		ug/L	368355	1	12/15/2023 17:36	AV
Methylene chloride	BRL	5.0		ug/L	368355	1	12/15/2023 17:36	AV
Styrene	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV

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-8R
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 2:55:00 PM
Lab ID: 2312F00-062	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	368355	1	12/15/2023 17:36	AV
Toluene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368355	1	12/15/2023 17:36	AV
Trichloroethene	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Trichlorofluoromethane	BRL	10		ug/L	368355	1	12/15/2023 17:36	AV
Vinyl acetate	BRL	100		ug/L	368355	1	12/15/2023 17:36	AV
Vinyl chloride	BRL	2.0		ug/L	368355	1	12/15/2023 17:36	AV
Xylenes, Total	BRL	5.0		ug/L	368355	1	12/15/2023 17:36	AV
Surr: 4-Bromofluorobenzene	99.5	70-126		%REC	368355	1	12/15/2023 17:36	AV
Surr: Dibromofluoromethane	99.2	77-121		%REC	368355	1	12/15/2023 17:36	AV
Surr: Toluene-d8	99.9	78.6-119		%REC	368355	1	12/15/2023 17:36	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	140	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-063

Client Sample ID: PH1-GWA-1A
Collection Date: 12/11/2023 4:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/15/2023 22:11	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/15/2023 22:11	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
2-Butanone	BRL	100		ug/L	368368	1	12/15/2023 22:11	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/15/2023 22:11	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/15/2023 22:11	AV
Acetone	BRL	100		ug/L	368368	1	12/15/2023 22:11	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/15/2023 22:11	AV
Benzene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Bromoform	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Bromomethane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/15/2023 22:11	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Chloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Iodomethane	BRL	100		ug/L	368368	1	12/15/2023 22:11	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/15/2023 22:11	AV
Styrene	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Toluene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/15/2023 22:11	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:11	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/15/2023 22:11	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/15/2023 22:11	AV

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 MSWLF	Collection Date: 12/11/2023 4:20:00 PM
Lab ID: 2312F00-063	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	368368	1	12/15/2023 22:11	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/15/2023 22:11	AV
Surr: 4-Bromofluorobenzene	96.6	70-126		%REC	368368	1	12/15/2023 22:11	AV
Surr: Dibromofluoromethane	100	77-121		%REC	368368	1	12/15/2023 22:11	AV
Surr: Toluene-d8	98.3	78.6-119		%REC	368368	1	12/15/2023 22:11	AV

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 MSWLF	Collection Date: 12/12/2023 11:10:00 AM
Lab ID: 2312F00-064	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	368284	1	12/18/2023 22:48	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:48	AD
Barium	0.0256	0.0200		mg/L	368284	1	12/18/2023 22:48	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:48	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:48	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:48	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:48	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:48	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:48	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:48	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:48	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:48	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:48	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:48	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:48	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-065

Client Sample ID: PH1-GWA-4
Collection Date: 12/12/2023 2:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	14	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	1.8	1.0		mg/L	R533583	1	12/14/2023 13:23	TM
Nitrate	BRL	0.25		mg/L	R533583	1	12/14/2023 13:23	TM
Sulfate	1.7	1.0		mg/L	R533583	1	12/14/2023 22:50	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/15/2023 22:35	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/15/2023 22:35	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
2-Butanone	BRL	100		ug/L	368368	1	12/15/2023 22:35	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/15/2023 22:35	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/15/2023 22:35	AV
Acetone	BRL	100		ug/L	368368	1	12/15/2023 22:35	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/15/2023 22:35	AV
Benzene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Bromoform	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Bromomethane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/15/2023 22:35	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Chloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Iodomethane	BRL	100		ug/L	368368	1	12/15/2023 22:35	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/15/2023 22:35	AV
Styrene	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV

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-4
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 2:00:00 PM
Lab ID: 2312F00-065	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	368368	1	12/15/2023 22:35	AV
Toluene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/15/2023 22:35	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/15/2023 22:35	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/15/2023 22:35	AV
Vinyl chloride	BRL	2.0		ug/L	368368	1	12/15/2023 22:35	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/15/2023 22:35	AV
Surr: 4-Bromofluorobenzene	97.2	70-126		%REC	368368	1	12/15/2023 22:35	AV
Surr: Dibromofluoromethane	100	77-121		%REC	368368	1	12/15/2023 22:35	AV
Surr: Toluene-d8	97.8	78.6-119		%REC	368368	1	12/15/2023 22:35	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	8.95	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-066

Client Sample ID: PH1-GWB-1
Collection Date: 12/12/2023 10:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/15/2023 23:00	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/15/2023 23:00	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
2-Butanone	BRL	100		ug/L	368368	1	12/15/2023 23:00	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/15/2023 23:00	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/15/2023 23:00	AV
Acetone	BRL	100		ug/L	368368	1	12/15/2023 23:00	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/15/2023 23:00	AV
Benzene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Bromoform	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Bromomethane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/15/2023 23:00	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Chloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Iodomethane	BRL	100		ug/L	368368	1	12/15/2023 23:00	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/15/2023 23:00	AV
Styrene	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Toluene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/15/2023 23:00	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:00	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/15/2023 23:00	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/15/2023 23:00	AV

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-GWB-1
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/12/2023 10:50:00 AM
Lab ID: 2312F00-066	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	368368	1	12/15/2023 23:00	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/15/2023 23:00	AV
Surr: 4-Bromofluorobenzene	96.9	70-126		%REC	368368	1	12/15/2023 23:00	AV
Surr: Dibromofluoromethane	99.2	77-121		%REC	368368	1	12/15/2023 23:00	AV
Surr: Toluene-d8	97.6	78.6-119		%REC	368368	1	12/15/2023 23:00	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-067

Client Sample ID: GWA-1
Collection Date: 12/12/2023 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/15/2023 23:25	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/15/2023 23:25	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
2-Butanone	BRL	100		ug/L	368368	1	12/15/2023 23:25	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/15/2023 23:25	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/15/2023 23:25	AV
Acetone	BRL	100		ug/L	368368	1	12/15/2023 23:25	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/15/2023 23:25	AV
Benzene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Bromoform	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Bromomethane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/15/2023 23:25	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Chloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Iodomethane	BRL	100		ug/L	368368	1	12/15/2023 23:25	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/15/2023 23:25	AV
Styrene	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Toluene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/15/2023 23:25	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:25	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/15/2023 23:25	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/15/2023 23:25	AV

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 MSWLF	Collection Date: 12/12/2023 9:50:00 AM
Lab ID: 2312F00-067	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	368368	1	12/15/2023 23:25	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/15/2023 23:25	AV
Surr: 4-Bromofluorobenzene	97.3	70-126		%REC	368368	1	12/15/2023 23:25	AV
Surr: Dibromofluoromethane	99.1	77-121		%REC	368368	1	12/15/2023 23:25	AV
Surr: Toluene-d8	97.4	78.6-119		%REC	368368	1	12/15/2023 23:25	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-068

Client Sample ID: GWA-2
Collection Date: 12/12/2023 10:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/15/2023 23:50	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/15/2023 23:50	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
2-Butanone	BRL	100		ug/L	368368	1	12/15/2023 23:50	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/15/2023 23:50	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/15/2023 23:50	AV
Acetone	BRL	100		ug/L	368368	1	12/15/2023 23:50	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/15/2023 23:50	AV
Benzene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Bromoform	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Bromomethane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/15/2023 23:50	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Chloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Iodomethane	BRL	100		ug/L	368368	1	12/15/2023 23:50	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/15/2023 23:50	AV
Styrene	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Toluene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/15/2023 23:50	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/15/2023 23:50	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/15/2023 23:50	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/15/2023 23:50	AV

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 MSWLF	Collection Date: 12/12/2023 10:20:00 AM
Lab ID: 2312F00-068	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	368368	1	12/15/2023 23:50	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/15/2023 23:50	AV
Surr: 4-Bromofluorobenzene	96.4	70-126		%REC	368368	1	12/15/2023 23:50	AV
Surr: Dibromofluoromethane	99.7	77-121		%REC	368368	1	12/15/2023 23:50	AV
Surr: Toluene-d8	97.2	78.6-119		%REC	368368	1	12/15/2023 23:50	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-069

Client Sample ID: GWA-3
Collection Date: 12/11/2023 3:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 00:15	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 00:15	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 00:15	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 00:15	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 00:15	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 00:15	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 00:15	AV
Benzene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 00:15	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 00:15	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 00:15	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 00:15	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:15	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 00:15	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 00:15	AV

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 MSWLF	Collection Date: 12/11/2023 3:00:00 PM
Lab ID: 2312F00-069	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	368368	1	12/16/2023 00:15	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 00:15	AV
Surr: 4-Bromofluorobenzene	98.1	70-126		%REC	368368	1	12/16/2023 00:15	AV
Surr: Dibromofluoromethane	98.6	77-121		%REC	368368	1	12/16/2023 00:15	AV
Surr: Toluene-d8	98.2	78.6-119		%REC	368368	1	12/16/2023 00:15	AV

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-1
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 2:00:00 PM
Lab ID: 2312F00-070	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	43	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	2.6	1.0		mg/L	R533482	1	12/13/2023 19:16	TM
Nitrate	BRL	0.25		mg/L	R533482	1	12/13/2023 19:16	TM
Sulfate	1.6	1.0		mg/L	R533482	1	12/13/2023 19:16	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 00:40	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 00:40	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 00:40	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 00:40	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 00:40	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 00:40	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 00:40	AV
Benzene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 00:40	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 00:40	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 00:40	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV

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 MSWLF	Collection Date: 12/13/2023 2:00:00 PM
Lab ID: 2312F00-070	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	368368	1	12/16/2023 00:40	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 00:40	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 00:40	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 00:40	AV
Vinyl chloride	BRL	2.0		ug/L	368368	1	12/16/2023 00:40	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 00:40	AV
Surr: 4-Bromofluorobenzene	98.9	70-126		%REC	368368	1	12/16/2023 00:40	AV
Surr: Dibromofluoromethane	101	77-121		%REC	368368	1	12/16/2023 00:40	AV
Surr: Toluene-d8	99.4	78.6-119		%REC	368368	1	12/16/2023 00:40	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	37.0	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-071

Client Sample ID: GWC-8A
Collection Date: 12/13/2023 1:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	65	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	4.2	1.0		mg/L	R533483	1	12/13/2023 19:27	TM
Nitrate	BRL	0.25		mg/L	R533483	1	12/13/2023 19:27	TM
Sulfate	1.7	1.0		mg/L	R533483	1	12/13/2023 19:27	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,1-Dichloroethane	2.2	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 01:05	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 01:05	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 01:05	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 01:05	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 01:05	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 01:05	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 01:05	AV
Benzene	2.2	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 01:05	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
cis-1,2-Dichloroethene	33	2.0		ug/L	368368	1	12/16/2023 01:05	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 01:05	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 01:05	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV

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 MSWLF	Collection Date: 12/13/2023 1:50:00 PM
Lab ID: 2312F00-071	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	368368	1	12/16/2023 01:05	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 01:05	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 01:05	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 01:05	AV
Vinyl chloride	BRL	2.0		ug/L	368368	1	12/16/2023 01:05	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 01:05	AV
Surr: 4-Bromofluorobenzene	99.4	70-126		%REC	368368	1	12/16/2023 01:05	AV
Surr: Dibromofluoromethane	99.4	77-121		%REC	368368	1	12/16/2023 01:05	AV
Surr: Toluene-d8	98.1	78.6-119		%REC	368368	1	12/16/2023 01:05	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	77.5	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-072

Client Sample ID: PH1-GWA-2
Collection Date: 12/13/2023 11:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	54	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	3.0	1.0		mg/L	R533483	1	12/13/2023 19:38	TM
Nitrate	BRL	0.25		mg/L	R533483	1	12/13/2023 19:38	TM
Sulfate	1.9	1.0		mg/L	R533483	1	12/13/2023 19:38	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 01:30	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 01:30	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 01:30	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 01:30	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 01:30	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 01:30	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 01:30	AV
Benzene	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 01:30	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
cis-1,2-Dichloroethene	39	2.0		ug/L	368368	1	12/16/2023 01:30	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 01:30	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 01:30	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV

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-2
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 11:20:00 AM
Lab ID: 2312F00-072	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	368368	1	12/16/2023 01:30	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 01:30	AV
Trichloroethene	2.8	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 01:30	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 01:30	AV
Vinyl chloride	BRL	2.0		ug/L	368368	1	12/16/2023 01:30	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 01:30	AV
Surr: 4-Bromofluorobenzene	98.1	70-126		%REC	368368	1	12/16/2023 01:30	AV
Surr: Dibromofluoromethane	99.3	77-121		%REC	368368	1	12/16/2023 01:30	AV
Surr: Toluene-d8	97.8	78.6-119		%REC	368368	1	12/16/2023 01:30	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	41.3	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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 MSWLF	Collection Date: 12/13/2023 12:45:00 PM
Lab ID: 2312F00-073	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	368284	1	12/18/2023 22:50	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:50	AD
Barium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:50	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:50	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:50	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:50	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:50	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:50	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:50	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:50	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:50	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:50	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:50	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:50	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:50	AD

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-GWB-1
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 10:50:00 AM
Lab ID: 2312F00-074	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	368284	1	12/18/2023 22:52	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:52	AD
Barium	0.0460	0.0200		mg/L	368284	1	12/18/2023 22:52	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:52	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:52	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:52	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:52	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:52	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:52	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:52	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:52	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:52	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:52	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:52	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:52	AD

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 MSWLF	Collection Date: 12/13/2023 12:10:00 PM
Lab ID: 2312F00-075	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	368368	1	12/16/2023 01:55	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 01:55	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 01:55	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 01:55	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 01:55	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 01:55	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 01:55	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 01:55	AV
Benzene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 01:55	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 01:55	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 01:55	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 01:55	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 01:55	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 01:55	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 01:55	AV

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 MSWLF	Collection Date: 12/13/2023 12:10:00 PM
Lab ID: 2312F00-075	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	368368	1	12/16/2023 01:55	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 01:55	AV
Surr: 4-Bromofluorobenzene	99.4	70-126		%REC	368368	1	12/16/2023 01:55	AV
Surr: Dibromofluoromethane	99.6	77-121		%REC	368368	1	12/16/2023 01:55	AV
Surr: Toluene-d8	97.4	78.6-119		%REC	368368	1	12/16/2023 01:55	AV

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 MSWLF	Collection Date:	12/13/2023 9:40:00 AM
Lab ID:	2312F00-076	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	368284	1	12/18/2023 22:55	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:55	AD
Barium	0.0297	0.0200		mg/L	368284	1	12/18/2023 22:55	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:55	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:55	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:55	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:55	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:55	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:55	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:55	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:55	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:55	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:55	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:55	AD
Zinc	0.0301	0.0200		mg/L	368284	1	12/18/2023 22:55	AD

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 MSWLF	Collection Date:	12/13/2023 9:50:00 AM
Lab ID:	2312F00-077	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	368284	1	12/18/2023 22:57	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 22:57	AD
Barium	0.0275	0.0200		mg/L	368284	1	12/18/2023 22:57	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 22:57	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 22:57	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:57	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 22:57	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 22:57	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 22:57	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/18/2023 22:57	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 22:57	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 22:57	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 22:57	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 22:57	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 22:57	AD

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-18
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 10:25:00 AM
Lab ID: 2312F00-078	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	368284	1	12/18/2023 23:00	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/18/2023 23:00	AD
Barium	0.192	0.0200		mg/L	368284	1	12/18/2023 23:00	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/18/2023 23:00	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/18/2023 23:00	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/18/2023 23:00	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/18/2023 23:00	AD
Copper	BRL	0.0200		mg/L	368284	1	12/18/2023 23:00	AD
Lead	BRL	0.0150		mg/L	368284	1	12/18/2023 23:00	AD
Nickel	0.107	0.0200		mg/L	368284	1	12/18/2023 23:00	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/18/2023 23:00	AD
Silver	BRL	0.0100		mg/L	368284	1	12/18/2023 23:00	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/18/2023 23:00	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/18/2023 23:00	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/18/2023 23:00	AD

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-079

Client Sample ID: GWC-19R
Collection Date: 12/13/2023 10:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	48	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	2.1	1.0		mg/L	R533483	1	12/13/2023 19:49	TM
Nitrate	BRL	0.25		mg/L	R533483	1	12/13/2023 19:49	TM
Sulfate	2.6	1.0		mg/L	R533483	1	12/13/2023 19:49	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 02:20	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 02:20	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 02:20	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 02:20	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 02:20	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 02:20	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 02:20	AV
Benzene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 02:20	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
cis-1,2-Dichloroethene	11	2.0		ug/L	368368	1	12/16/2023 02:20	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 02:20	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 02:20	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV

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-19R
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/13/2023 10:00:00 AM
Lab ID: 2312F00-079	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	368368	1	12/16/2023 02:20	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 02:20	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 02:20	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 02:20	AV
Vinyl chloride	BRL	2.0		ug/L	368368	1	12/16/2023 02:20	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 02:20	AV
Surr: 4-Bromofluorobenzene	99	70-126		%REC	368368	1	12/16/2023 02:20	AV
Surr: Dibromofluoromethane	101	77-121		%REC	368368	1	12/16/2023 02:20	AV
Surr: Toluene-d8	98.8	78.6-119		%REC	368368	1	12/16/2023 02:20	AV
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	47.5	3.00		mg/L	R533743	1	12/18/2023 14:53	SK

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-080

Client Sample ID: TRIP BLANK 1
Collection Date: 12/11/2023
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	368368	1	12/16/2023 02:45	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 02:45	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 02:45	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 02:45	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 02:45	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 02:45	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 02:45	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 02:45	AV
Benzene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 02:45	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 02:45	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 02:45	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 02:45	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 02:45	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 02:45	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 02:45	AV

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 1
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/11/2023
Lab ID: 2312F00-080	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	368368	1	12/16/2023 02:45	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 02:45	AV
Surr: 4-Bromofluorobenzene	99.6	70-126		%REC	368368	1	12/16/2023 02:45	AV
Surr: Dibromofluoromethane	98.7	77-121		%REC	368368	1	12/16/2023 02:45	AV
Surr: Toluene-d8	97.4	78.6-119		%REC	368368	1	12/16/2023 02:45	AV

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.
Project Name Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-081

Client Sample ID: TRIP BLANK 2
Collection Date: 12/11/2023
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	368368	1	12/16/2023 03:10	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
1,1-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
1,1-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 03:10	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 03:10	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 03:10	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 03:10	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 03:10	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 03:10	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 03:10	AV
Benzene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 03:10	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 03:10	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 03:10	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Tetrachloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 03:10	AV
Trichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 03:10	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 03:10	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 03:10	AV

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 2
Project Name: Forsyth County-Hightower Road MSWLF	Collection Date: 12/11/2023
Lab ID: 2312F00-081	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	368368	1	12/16/2023 03:10	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 03:10	AV
Surr: 4-Bromofluorobenzene	99.3	70-126		%REC	368368	1	12/16/2023 03:10	AV
Surr: Dibromofluoromethane	100	77-121		%REC	368368	1	12/16/2023 03:10	AV
Surr: Toluene-d8	97.3	78.6-119		%REC	368368	1	12/16/2023 03:10	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-082

Client Sample ID: AMW-1
Collection Date: 12/13/2023 2:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	85	10		mg/L	368375	1	12/18/2023 15:15	NN
ION SCAN SW9056A								
Chloride	2.1	1.0		mg/L	R533704	1	12/15/2023 11:29	TM
Nitrate	BRL	0.25		mg/L	R533704	1	12/15/2023 11:29	TM
Sulfate	1.5	1.0		mg/L	R533704	1	12/15/2023 11:29	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,1,1-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,1,2-Trichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,1-Dichloroethane	45	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,1-Dichloroethene	2.4	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,2,3-Trichloropropane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368368	1	12/16/2023 03:34	AV
1,2-Dibromoethane	BRL	1.0		ug/L	368368	1	12/16/2023 03:34	AV
1,2-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
1,2-Dichloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,2-Dichloropropane	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
1,4-Dichlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
2-Butanone	BRL	100		ug/L	368368	1	12/16/2023 03:34	AV
2-Hexanone	BRL	50		ug/L	368368	1	12/16/2023 03:34	AV
4-Methyl-2-pentanone	BRL	50		ug/L	368368	1	12/16/2023 03:34	AV
Acetone	BRL	100		ug/L	368368	1	12/16/2023 03:34	AV
Acrylonitrile	BRL	50		ug/L	368368	1	12/16/2023 03:34	AV
Benzene	4.9	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Bromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Bromodichloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Bromoform	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Bromomethane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Carbon disulfide	BRL	5.0		ug/L	368368	1	12/16/2023 03:34	AV
Carbon tetrachloride	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Chlorobenzene	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Chloroethane	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Chloroform	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Chloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
cis-1,2-Dichloroethene	170	2.0		ug/L	368368	1	12/16/2023 03:34	AV
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Dibromochloromethane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Dibromomethane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Ethylbenzene	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Iodomethane	BRL	100		ug/L	368368	1	12/16/2023 03:34	AV
Methylene chloride	BRL	5.0		ug/L	368368	1	12/16/2023 03:34	AV
Styrene	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV

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.
Project Name: Forsyth County-Hightower Road MSWLF
Lab ID: 2312F00-082

Client Sample ID: AMW-1
Collection Date: 12/13/2023 2:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D					(SW5030B)			
Tetrachloroethene	11	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Toluene	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368368	1	12/16/2023 03:34	AV
Trichloroethene	88	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Trichlorofluoromethane	BRL	10		ug/L	368368	1	12/16/2023 03:34	AV
Vinyl acetate	BRL	100		ug/L	368368	1	12/16/2023 03:34	AV
Vinyl chloride	BRL	2.0		ug/L	368368	1	12/16/2023 03:34	AV
Xylenes, Total	BRL	5.0		ug/L	368368	1	12/16/2023 03:34	AV
Surr: 4-Bromofluorobenzene	99.6	70-126		%REC	368368	1	12/16/2023 03:34	AV
Surr: Dibromofluoromethane	100	77-121		%REC	368368	1	12/16/2023 03:34	AV
Surr: Toluene-d8	97.3	78.6-119		%REC	368368	1	12/16/2023 03:34	AV
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368284	1	12/19/2023 17:28	AD
Arsenic	BRL	0.0100		mg/L	368284	1	12/19/2023 17:28	AD
Barium	0.0717	0.0200		mg/L	368284	1	12/19/2023 17:28	AD
Beryllium	BRL	0.00300		mg/L	368284	1	12/19/2023 17:28	AD
Cadmium	BRL	0.00500		mg/L	368284	1	12/19/2023 17:28	AD
Chromium	BRL	0.0100		mg/L	368284	1	12/19/2023 17:28	AD
Cobalt	BRL	0.0400		mg/L	368284	1	12/19/2023 17:28	AD
Copper	BRL	0.0200		mg/L	368284	1	12/19/2023 17:28	AD
Lead	BRL	0.0150		mg/L	368284	1	12/19/2023 17:28	AD
Nickel	BRL	0.0200		mg/L	368284	1	12/19/2023 17:28	AD
Selenium	BRL	0.0100		mg/L	368284	1	12/19/2023 17:28	AD
Silver	BRL	0.0100		mg/L	368284	1	12/19/2023 17:28	AD
Thallium	BRL	0.00200		mg/L	368284	1	12/19/2023 17:28	AD
Vanadium	BRL	0.0200		mg/L	368284	1	12/19/2023 17:28	AD
Zinc	BRL	0.0200		mg/L	368284	1	12/19/2023 17:28	AD
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	75.2	3.00		mg/L	R533902	1	12/19/2023 16:28	AH

Qualifiers:

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

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Atlantic Coast Consulting, Inc.

AES Work Order Number: 2312F00

2. Carrier: FedEx UPS USPS Client Courier Other

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

12. Cooler 1 Temperature 0.6 °C Cooler 2 Temperature 1.1 °C Cooler 3 Temperature 1.6 °C Cooler 4 Temperature 1.0 °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

13. Comments: Cooler #4 was received on 12/14/23

I certify that I have completed sections 1-13 (dated initials). CP 12/13/23

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

26. Comments: _____

I certify that I have completed sections 14-26 (dated initials). MJ 12/14/23

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

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

*Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH. 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 27-29(dated initials). MJ 12/14/23

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth County-Hightower Road MSWLF
 Lab Order: 2312F00

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2312F00-001A	GWC-7	12/11/2023 3:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-002A	GWC-5	12/11/2023 4:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-003A	GWC-5	12/12/2023 9:35:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-004A	GWC-7	12/12/2023 10:15:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-005A	GWC-6	12/12/2023 10:05:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-006A	GWC-2	12/11/2023 3:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-007A	PH1-GWB-2	12/12/2023 11:05:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-008A	GWC-1	12/11/2023 4:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-009A	AMW-9	12/12/2023 11:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-010A	SWC-4B	12/11/2023 2:40:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-011A	GWC-14R	12/12/2023 1:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-011B	GWC-14R	12/12/2023 1:05:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-011B	GWC-14R	12/12/2023 1:05:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-011B	GWC-14R	12/12/2023 1:05:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-012A	GWC-9	12/11/2023 2:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-013A	GWC-10	12/11/2023 3:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-014A	GWC-10A	12/11/2023 4:08:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-015A	GWC-23A	12/11/2023 2:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-016A	GWC-23A	12/12/2023 11:50:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-017A	GWC-24	12/12/2023 2:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:18:00AM	12/15/2023
2312F00-017B	GWC-24	12/12/2023 2:20:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-017B	GWC-24	12/12/2023 2:20:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-017B	GWC-24	12/12/2023 2:20:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-018A	AMW-2	12/12/2023 4:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/20/2023
2312F00-018B	AMW-2	12/12/2023 4:25:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-018B	AMW-2	12/12/2023 4:25:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-018B	AMW-2	12/12/2023 4:25:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-019A	AMW-4	12/12/2023 12:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/20/2023
2312F00-019B	AMW-4	12/12/2023 12:15:00PM	Groundwater	ION SCAN			12/14/2023

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth County-Hightower Road MSWLF
 Lab Order: 2312F00

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2312F00-019B	AMW-4	12/12/2023 12:15:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-019B	AMW-4	12/12/2023 12:15:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-020A	AMW-5	12/12/2023 12:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/15/2023
2312F00-020B	AMW-5	12/12/2023 12:45:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-020B	AMW-5	12/12/2023 12:45:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-020B	AMW-5	12/12/2023 12:45:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-021A	AMW-12	12/12/2023 2:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		12/15/2023 7:14:00PM	12/15/2023
2312F00-021A	AMW-12	12/12/2023 2:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		12/15/2023 7:14:00PM	12/18/2023
2312F00-022A	AMW-12R	12/12/2023 3:08:00PM	Groundwater	Volatile Organic Compounds by GC/MS		12/15/2023 7:14:00PM	12/15/2023
2312F00-022A	AMW-12R	12/12/2023 3:08:00PM	Groundwater	Volatile Organic Compounds by GC/MS		12/15/2023 7:14:00PM	12/18/2023
2312F00-023A	AMW-14	12/12/2023 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/15/2023
2312F00-023B	AMW-14	12/12/2023 3:00:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-023B	AMW-14	12/12/2023 3:00:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-023B	AMW-14	12/12/2023 3:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-024A	FIELD BLANK-2	12/12/2023 2:30:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/15/2023
2312F00-024B	FIELD BLANK-2	12/12/2023 2:30:00PM	Aqueous	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-025A	PH1-GWB-2	12/13/2023 9:35:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-026A	GWC-6	12/13/2023 9:50:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-027A	GWC-1	12/12/2023 10:05:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-028A	GWC-2	12/12/2023 9:50:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-029A	GWA-3	12/12/2023 11:30:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-030A	GWC-3A	12/12/2023 11:42:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-031A	GWC-4	12/12/2023 12:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-032A	GWC-8	12/12/2023 1:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-033A	GWC-9	12/12/2023 10:11:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-033A	GWC-9	12/12/2023 10:11:00AM	Groundwater	APPENDIX I METALS		1/2/2024 1:28:00PM	01/03/2024
2312F00-034A	GWC-10	12/12/2023 10:20:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-035A	GWC-10A	12/12/2023 10:25:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-036A	GWC-11	12/12/2023 10:35:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth County-Hightower Road MSWLF
 Lab Order: 2312F00

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2312F00-037A	GWC-18	12/12/2023 3:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-037B	GWC-18	12/12/2023 3:15:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-037B	GWC-18	12/12/2023 3:15:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-037B	GWC-18	12/12/2023 3:15:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-038A	GWC-22	12/11/2023 1:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-039A	GWC-22	12/12/2023 11:55:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-040A	GWC-23	12/11/2023 1:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-041A	GWC-23	12/12/2023 11:45:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-042A	PH1-GWC-3	12/13/2023 11:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/18/2023
2312F00-042B	PH1-GWC-3	12/13/2023 11:15:00AM	Groundwater	ION SCAN			12/13/2023
2312F00-042B	PH1-GWC-3	12/13/2023 11:15:00AM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-042B	PH1-GWC-3	12/13/2023 11:15:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-043A	PH1-GWC-3A	12/13/2023 12:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-043B	PH1-GWC-3A	12/13/2023 12:15:00PM	Groundwater	ION SCAN			12/13/2023
2312F00-043B	PH1-GWC-3A	12/13/2023 12:15:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-043B	PH1-GWC-3A	12/13/2023 12:15:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-044A	GWA-1A	12/13/2023 11:00:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-044B	GWA-1A	12/13/2023 11:00:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-045A	GWC-3A	12/13/2023 9:30:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-046A	GWC-4	12/13/2023 9:51:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-047A	GWC-4A	12/13/2023 11:55:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-047B	GWC-4A	12/13/2023 11:55:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-048A	GWC-12	12/13/2023 9:40:00AM	Groundwater	APPENDIX I METALS		12/18/2023 11:56:00AM	12/18/2023
2312F00-049A	GWC-12A	12/13/2023 9:45:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-050A	GWC-13	12/13/2023 9:30:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-051A	GWC-8	12/13/2023 10:10:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-052A	GWC-14A	12/13/2023 10:10:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-053A	GWC-24	12/13/2023 10:40:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-054A	AMW-2	12/13/2023 10:30:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth County-Hightower Road MSWLF
 Lab Order: 2312F00

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2312F00-055A	FIELD BLANK-1	12/13/2023 1:35:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-055B	FIELD BLANK-1	12/13/2023 1:35:00PM	Aqueous	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-056A	GWC-11	12/11/2023 4:27:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-057A	GWC-12	12/12/2023 11:37:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 7:14:00PM	12/16/2023
2312F00-058A	GWC-12A	12/12/2023 12:17:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:40:00AM	12/15/2023
2312F00-059A	GWC-13	12/12/2023 11:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:40:00AM	12/15/2023
2312F00-060A	GWC-14	12/12/2023 12:26:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:40:00AM	12/15/2023
2312F00-061A	GWC-14A	12/12/2023 1:17:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:40:00AM	12/15/2023
2312F00-061B	GWC-14A	12/12/2023 1:17:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-061B	GWC-14A	12/12/2023 1:17:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-061B	GWC-14A	12/12/2023 1:17:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-062A	GWC-8R	12/12/2023 2:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:40:00AM	12/15/2023
2312F00-062B	GWC-8R	12/12/2023 2:55:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-062B	GWC-8R	12/12/2023 2:55:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-062B	GWC-8R	12/12/2023 2:55:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-063A	PH1-GWA-1A	12/11/2023 4:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/15/2023
2312F00-064A	PH1-GWA-1A	12/12/2023 11:10:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-065A	PH1-GWA-4	12/12/2023 2:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/15/2023
2312F00-065B	PH1-GWA-4	12/12/2023 2:00:00PM	Groundwater	ION SCAN			12/14/2023
2312F00-065B	PH1-GWA-4	12/12/2023 2:00:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-065B	PH1-GWA-4	12/12/2023 2:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-066A	PH1-GWB-1	12/12/2023 10:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/15/2023
2312F00-067A	GWA-1	12/12/2023 9:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/15/2023
2312F00-068A	GWA-2	12/12/2023 10:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/15/2023
2312F00-069A	GWA-3	12/11/2023 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-070A	PH1-GWA-1	12/13/2023 2:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-070B	PH1-GWA-1	12/13/2023 2:00:00PM	Groundwater	ION SCAN			12/13/2023
2312F00-070B	PH1-GWA-1	12/13/2023 2:00:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-070B	PH1-GWA-1	12/13/2023 2:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023

Client: Atlantic Coast Consulting, Inc.
 Project Name: Forsyth County-Hightower Road MSWLF
 Lab Order: 2312F00

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2312F00-071A	GWC-8A	12/13/2023 1:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-071B	GWC-8A	12/13/2023 1:50:00PM	Groundwater	ION SCAN			12/13/2023
2312F00-071B	GWC-8A	12/13/2023 1:50:00PM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-071B	GWC-8A	12/13/2023 1:50:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-072A	PH1-GWA-2	12/13/2023 11:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-072B	PH1-GWA-2	12/13/2023 11:20:00AM	Groundwater	ION SCAN			12/13/2023
2312F00-072B	PH1-GWA-2	12/13/2023 11:20:00AM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-072B	PH1-GWA-2	12/13/2023 11:20:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-073A	PH1-GWA-4	12/13/2023 12:45:00PM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-074A	PH1-GWB-1	12/13/2023 10:50:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-075A	PH1-GWC-1	12/13/2023 12:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-076A	GWA-1	12/13/2023 9:40:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-077A	GWA-2	12/13/2023 9:50:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-078A	GWC-18	12/13/2023 10:25:00AM	Groundwater	APPENDIX I METALS		12/18/2023 9:00:00AM	12/18/2023
2312F00-079A	GWC-19R	12/13/2023 10:00:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-079B	GWC-19R	12/13/2023 10:00:00AM	Groundwater	ION SCAN			12/13/2023
2312F00-079B	GWC-19R	12/13/2023 10:00:00AM	Groundwater	Alkalinity by SM2320B			12/18/2023
2312F00-079B	GWC-19R	12/13/2023 10:00:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023
2312F00-080A	TRIP BLANK 1	12/11/2023 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-081A	TRIP BLANK 2	12/11/2023 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-082A	AMW-1	12/13/2023 2:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/15/2023 8:06:00PM	12/16/2023
2312F00-082B	AMW-1	12/13/2023 2:10:00PM	Groundwater	APPENDIX I METALS		12/19/2023 5:55:00AM	12/19/2023
2312F00-082C	AMW-1	12/13/2023 2:10:00PM	Groundwater	ION SCAN			12/15/2023
2312F00-082C	AMW-1	12/13/2023 2:10:00PM	Groundwater	Alkalinity by SM2320B			12/19/2023
2312F00-082C	AMW-1	12/13/2023 2:10:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/18/2023 3:15:00PM	12/18/2023

Client: Atlantic Coast Consulting, Inc.
Project Name Forsyth County-Hightower Road MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368246

Sample ID: MB-368246	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533579							
Sample Type: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368246	Analysis Date: 12/15/2023	Seq No: 12683178							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368246

Sample ID: MB-368246	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533579							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368246	Analysis Date: 12/15/2023	Seq No: 12683178							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	47.23	0	50.00		94.5	70	126				
Surr: Dibromofluoromethane	49.89	0	50.00		99.8	77	121				
Surr: Toluene-d8	50.46	0	50.00		101	78.6	119				

Sample ID: LCS-368246	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533579							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368246	Analysis Date: 12/15/2023	Seq No: 12683179							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368246

Sample ID: LCS-368246	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533579							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368246	Analysis Date: 12/15/2023	Seq No: 12683179							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	20.91	5.0	20.00		105	68.6	130				
Benzene	20.56	5.0	20.00		103	76.3	122				
Chlorobenzene	19.14	5.0	20.00		95.7	75.2	121				
Toluene	19.80	5.0	20.00		99.0	74.3	124				
Trichloroethene	19.09	5.0	20.00		95.4	71.9	129				
Surr: 4-Bromofluorobenzene	51.32	0	50.00		103	70	126				
Surr: Dibromofluoromethane	51.90	0	50.00		104	77	121				
Surr: Toluene-d8	51.75	0	50.00		104	78.6	119				

Sample ID: 2312G80-002AMS	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533579							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368246	Analysis Date: 12/15/2023	Seq No: 12683181							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	22.09	5.0	20.00		110	69	139				
Benzene	21.59	5.0	20.00		108	71.3	133				
Chlorobenzene	19.90	5.0	20.00		99.5	77.6	128				
Toluene	19.51	5.0	20.00		97.6	72	134				
Trichloroethene	19.48	5.0	20.00		97.4	76.8	136				
Surr: 4-Bromofluorobenzene	49.13	0	50.00		98.3	70	126				
Surr: Dibromofluoromethane	50.83	0	50.00		102	77	121				
Surr: Toluene-d8	49.03	0	50.00		98.1	78.6	119				

Sample ID: 2312G80-002AMSD	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533579							
SampleType: MSD	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368246	Analysis Date: 12/15/2023	Seq No: 12683182							
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	69	139	22.09	2.61	56.1	
Benzene	20.88	5.0	20.00		104	71.3	133	21.59	3.34	42.4	

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368246

Sample ID: 2312G80-002AMSD	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533579							
SampleType: MSD	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368246	Analysis Date: 12/15/2023	Seq No: 12683182							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	19.71	5.0	20.00		98.6	77.6	128	19.90	0.959	49.9	
Toluene	19.42	5.0	20.00		97.1	72	134	19.51	0.462	42.5	
Trichloroethene	20.16	5.0	20.00		101	76.8	136	19.48	3.43	51.1	
Surr: 4-Bromofluorobenzene	50.58	0	50.00		101	70	126	49.13	0	0	
Surr: Dibromofluoromethane	49.89	0	50.00		99.8	77	121	50.83	0	0	
Surr: Toluene-d8	49.95	0	50.00		99.9	78.6	119	49.03	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368282

Sample ID: MB-368282	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533808							
SampleType: MBLK	TestCode: APPENDIX I METALS SW6020B	BatchID: 368282	Analysis Date: 12/18/2023	Seq No: 12687671							
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	0.00400									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0200									
Cobalt	BRL	0.0500									
Copper	BRL	0.0200									
Lead	BRL	0.0100									
Nickel	BRL	0.0400									
Selenium	BRL	0.0500									
Silver	BRL	0.00500									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0500									
Zinc	BRL	0.0200									

Sample ID: LCS-368282	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533808							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368282	Analysis Date: 12/18/2023	Seq No: 12687672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1143	0.00600	0.1000		114	80	120				
Arsenic	0.1102	0.0100	0.1000		110	80	120				
Barium	0.1161	0.0200	0.1000		116	80	120				
Beryllium	0.1060	0.00400	0.1000		106	80	120				
Cadmium	0.1057	0.00500	0.1000	0.0001790	106	80	120				
Chromium	0.1100	0.0200	0.1000		110	80	120				
Cobalt	0.1112	0.0500	0.1000		111	80	120				
Copper	0.1110	0.0200	0.1000		111	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368282

Sample ID: LCS-368282	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533808							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368282	Analysis Date: 12/18/2023	Seq No: 12687672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.1173	0.0100	0.1000		117	80	120				
Nickel	0.1122	0.0400	0.1000		112	80	120				
Selenium	0.1019	0.0500	0.1000		102	80	120				
Silver	0.01128	0.00500	0.0100		113	80	120				
Thallium	0.1199	0.00200	0.1000		120	80	120				
Vanadium	0.1113	0.0500	0.1000		111	80	120				
Zinc	0.1149	0.0200	0.1000		115	80	120				

Sample ID: 2312F00-003AMS	Client ID: GWC-5	Units: mg/L	Prep Date: 12/18/2023	Run No: 533808							
SampleType: MS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368282	Analysis Date: 12/18/2023	Seq No: 12687674							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1152	0.00600	0.1000		115	75	125				
Arsenic	0.1101	0.0100	0.1000		110	75	125				
Barium	0.1249	0.0200	0.1000	0.01477	110	75	125				
Beryllium	0.1088	0.00400	0.1000		109	75	125				
Cadmium	0.1076	0.00500	0.1000		108	75	125				
Chromium	0.1102	0.0200	0.1000	0.001487	109	75	125				
Cobalt	0.1128	0.0500	0.1000	0.0003836	112	75	125				
Copper	0.1125	0.0200	0.1000		112	75	125				
Lead	0.1184	0.0100	0.1000		118	75	125				
Nickel	0.1132	0.0400	0.1000	0.0006638	112	75	125				
Selenium	0.1044	0.0500	0.1000		104	75	125				
Silver	0.01086	0.00500	0.0100		109	75	125				
Thallium	0.1192	0.00200	0.1000		119	75	125				
Vanadium	0.1104	0.0500	0.1000		110	75	125				
Zinc	0.1197	0.0200	0.1000	0.006254	113	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368282

Sample ID: 2312F00-003AMSD	Client ID: GWC-5	Units: mg/L	Prep Date: 12/18/2023	Run No: 533808
SampleType: MSD	TestCode: APPENDIX I METALS SW6020B	BatchID: 368282	Analysis Date: 12/18/2023	Seq No: 12687675

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1152	0.00600	0.1000		115	75	125	0.1152	0.042	20	
Arsenic	0.1109	0.0100	0.1000		111	75	125	0.1101	0.714	20	
Barium	0.1276	0.0200	0.1000	0.01477	113	75	125	0.1249	2.13	20	
Beryllium	0.1139	0.00400	0.1000		114	75	125	0.1088	4.56	20	
Cadmium	0.1098	0.00500	0.1000		110	75	125	0.1076	1.96	20	
Chromium	0.1104	0.0200	0.1000	0.001487	109	75	125	0.1102	0.126	20	
Cobalt	0.1116	0.0500	0.1000	0.0003836	111	75	125	0.1128	1.04	20	
Copper	0.1135	0.0200	0.1000		113	75	125	0.1125	0.847	20	
Lead	0.1184	0.0100	0.1000		118	75	125	0.1184	0.041	20	
Nickel	0.1105	0.0400	0.1000	0.0006638	110	75	125	0.1132	2.34	20	
Selenium	0.1084	0.0500	0.1000		108	75	125	0.1044	3.82	20	
Silver	0.01063	0.00500	0.0100		106	75	125	0.01086	2.14	20	
Thallium	0.1201	0.00200	0.1000		120	75	125	0.1192	0.749	20	
Vanadium	0.1111	0.0500	0.1000		111	75	125	0.1104	0.698	20	
Zinc	0.1172	0.0200	0.1000	0.006254	111	75	125	0.1197	2.09	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368284

Sample ID: MB-368284	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533810							
SampleType: MBLK	TestCode: APPENDIX I METALS SW6020B	BatchID: 368284	Analysis Date: 12/18/2023	Seq No: 12687853							
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	0.00400									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0200									
Cobalt	BRL	0.0500									
Copper	BRL	0.0200									
Lead	BRL	0.0100									
Nickel	BRL	0.0400									
Selenium	BRL	0.0500									
Silver	BRL	0.00500									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0500									
Zinc	BRL	0.0200									

Sample ID: LCS-368284	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533810							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368284	Analysis Date: 12/18/2023	Seq No: 12687854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1190	0.00600	0.1000		119	80	120				
Arsenic	0.1134	0.0100	0.1000		113	80	120				
Barium	0.1172	0.0200	0.1000		117	80	120				
Beryllium	0.1090	0.00400	0.1000		109	80	120				
Cadmium	0.1080	0.00500	0.1000		108	80	120				
Chromium	0.1131	0.0200	0.1000		113	80	120				
Cobalt	0.1150	0.0500	0.1000		115	80	120				
Copper	0.1147	0.0200	0.1000		115	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368284

Sample ID: LCS-368284	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533810							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368284	Analysis Date: 12/18/2023	Seq No: 12687854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.1227	0.0100	0.1000		123	80	120				S
Nickel	0.1150	0.0400	0.1000		115	80	120				
Selenium	0.1053	0.0500	0.1000		105	80	120				
Silver	0.01111	0.00500	0.0100		111	80	120				
Thallium	0.1238	0.00200	0.1000		124	80	120				S
Vanadium	0.1149	0.0500	0.1000		115	80	120				
Zinc	0.1198	0.0200	0.1000		120	80	120				

Sample ID: 2312F00-049AMS	Client ID: GWC-12A	Units: mg/L	Prep Date: 12/18/2023	Run No: 533810							
SampleType: MS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368284	Analysis Date: 12/18/2023	Seq No: 12687856							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1212	0.00600	0.1000		121	75	125				
Arsenic	0.1148	0.0100	0.1000		115	75	125				
Barium	0.1369	0.0200	0.1000	0.01648	120	75	125				
Beryllium	0.1164	0.00400	0.1000		116	75	125				
Cadmium	0.1135	0.00500	0.1000		113	75	125				
Chromium	0.1141	0.0200	0.1000	0.001284	113	75	125				
Cobalt	0.1160	0.0500	0.1000	0.0004848	116	75	125				
Copper	0.1200	0.0200	0.1000	0.002538	117	75	125				
Lead	0.1229	0.0100	0.1000		123	75	125				
Nickel	0.1153	0.0400	0.1000		115	75	125				
Selenium	0.1106	0.0500	0.1000		111	75	125				
Silver	0.01115	0.00500	0.0100		112	75	125				
Thallium	0.1245	0.00200	0.1000		124	75	125				
Vanadium	0.1144	0.0500	0.1000		114	75	125				
Zinc	0.1308	0.0200	0.1000	0.01185	119	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368284

Sample ID: 2312F00-049AMSD	Client ID: GWC-12A	Units: mg/L	Prep Date: 12/18/2023	Run No: 533810							
SampleType: MSD	TestCode: APPENDIX I METALS SW6020B	BatchID: 368284	Analysis Date: 12/18/2023	Seq No: 12687857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1188	0.00600	0.1000		119	75	125	0.1212	1.97	20	
Arsenic	0.1130	0.0100	0.1000		113	75	125	0.1148	1.54	20	
Barium	0.1354	0.0200	0.1000	0.01648	119	75	125	0.1369	1.15	20	
Beryllium	0.1112	0.00400	0.1000		111	75	125	0.1164	4.58	20	
Cadmium	0.1093	0.00500	0.1000		109	75	125	0.1135	3.77	20	
Chromium	0.1128	0.0200	0.1000	0.001284	112	75	125	0.1141	1.14	20	
Cobalt	0.1150	0.0500	0.1000	0.0004848	115	75	125	0.1160	0.837	20	
Copper	0.1180	0.0200	0.1000	0.002538	115	75	125	0.1200	1.73	20	
Lead	0.1226	0.0100	0.1000		123	75	125	0.1229	0.187	20	
Nickel	0.1137	0.0400	0.1000		114	75	125	0.1153	1.39	20	
Selenium	0.1045	0.0500	0.1000		104	75	125	0.1106	5.71	20	
Silver	0.01104	0.00500	0.0100		110	75	125	0.01115	0.998	20	
Thallium	0.1240	0.00200	0.1000		124	75	125	0.1245	0.409	20	
Vanadium	0.1123	0.0500	0.1000		112	75	125	0.1144	1.89	20	
Zinc	0.1274	0.0200	0.1000	0.01185	116	75	125	0.1308	2.67	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: MB-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683233							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: MB-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683233							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	47.27	0	50.00		94.5	70	126				
Surr: Dibromofluoromethane	51.49	0	50.00		103	77	121				
Surr: Toluene-d8	49.51	0	50.00		99.0	78.6	119				

Sample ID: MB-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683253							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: MB-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683253							
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	1.0									
1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	1.0									
Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: MB-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683253							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Bromoform	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									
Dibromochloromethane	BRL	1.0									
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethylbenzene	BRL	1.0									
Iodomethane	BRL	2.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
Styrene	BRL	1.0									
Tetrachloroethene	BRL	1.0									
Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
trans-1,3-Dichloropropene	BRL	2.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: MB-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683253							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	47.27	0	50.00		94.5	70	126				
Surr: Dibromofluoromethane	51.49	0	50.00		103	77	121				
Surr: Toluene-d8	49.51	0	50.00		99.0	78.6	119				

Sample ID: MB-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12687216							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acetonitrile	BRL	100									
Allyl Chloride	BRL	10									
Chloroprene	BRL	20									
Ethyl Methacrylate	BRL	10									
Isobutyl Alcohol	BRL	200									
Methyl Methacrylate	BRL	10									
Methylacrylonitrile	BRL	200									
Propionitrile	BRL	100									

Sample ID: LCS-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.22	5.0	20.00		96.1	68.6	130				
Benzene	20.02	5.0	20.00		100	76.3	122				
Chlorobenzene	19.85	5.0	20.00		99.2	75.2	121				
Toluene	18.86	5.0	20.00		94.3	74.3	124				
Trichloroethene	18.41	5.0	20.00		92.0	71.9	129				
Surr: 4-Bromofluorobenzene	49.29	0	50.00		98.6	70	126				

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: LCS-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	49.84	0	50.00		99.7	77	121				
Surr: Toluene-d8	49.51	0	50.00		99.0	78.6	119				

Sample ID: LCS-368347	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/15/2023	Seq No: 12683254							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.22	2.0	20.00		96.1	68.6	130				
Benzene	20.02	1.0	20.00		100	76.3	122				
Chlorobenzene	19.85	1.0	20.00		99.2	75.2	121				
Toluene	18.86	1.0	20.00		94.3	74.3	124				
Trichloroethene	18.41	1.0	20.00		92.0	71.9	129				
Surr: 4-Bromofluorobenzene	49.29	0	50.00		98.6	70	126				
Surr: Dibromofluoromethane	49.84	0	50.00		99.7	77	121				
Surr: Toluene-d8	49.51	0	50.00		99.0	78.6	119				

Sample ID: 2312F00-030AMS	Client ID: GWC-3A	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12686941							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	23.22	5.0	20.00		116	69	139				
Benzene	21.83	5.0	20.00		109	71.3	133				
Chlorobenzene	21.38	5.0	20.00		107	77.6	128				
Toluene	21.20	5.0	20.00		106	72	134				
Trichloroethene	20.71	5.0	20.00		104	76.8	136				
Surr: 4-Bromofluorobenzene	49.34	0	50.00		98.7	70	126				
Surr: Dibromofluoromethane	51.49	0	50.00		103	77	121				
Surr: Toluene-d8	52.21	0	50.00		104	78.6	119				

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: 2312F00-030AMS	Client ID: GWC-3A	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12687003							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	23.22	2.0	20.00		116	69	139				
Benzene	21.83	1.0	20.00		109	71.3	133				
Chlorobenzene	21.38	1.0	20.00		107	77.6	128				
Toluene	21.20	1.0	20.00		106	72	134				
Trichloroethene	20.71	1.0	20.00		104	76.8	136				
Surr: 4-Bromofluorobenzene	49.34	0	50.00		98.7	70	126				
Surr: Dibromofluoromethane	51.49	0	50.00		103	77	121				
Surr: Toluene-d8	52.21	0	50.00		104	78.6	119				

Sample ID: 2312F00-023ADUP	Client ID: AMW-14	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12686936							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,1-Trichloroethane	BRL	5.0						0	0	20	
1,1,2,2-Tetrachloroethane	BRL	5.0						0	0	20	
1,1,2-Trichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethane	BRL	5.0						0	0	20	
1,1-Dichloroethene	BRL	5.0						0	0	20	
1,2,3-Trichloropropane	BRL	5.0						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	5.0						0	0	20	
1,2-Dibromoethane	BRL	5.0						0	0	20	
1,2-Dichlorobenzene	BRL	5.0						0	0	20	
1,2-Dichloroethane	BRL	5.0						0	0	20	
1,2-Dichloropropane	BRL	5.0						0	0	20	
1,4-Dichlorobenzene	BRL	5.0						0	0	20	
2-Butanone	BRL	50						0	0	20	
2-Hexanone	BRL	10						0	0	20	

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: 2312F00-023ADUP	Client ID: AMW-14	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12686936

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4-Methyl-2-pentanone	BRL	10						0	0	20	
Acetone	BRL	50						0	0	20	
Acrylonitrile	BRL	5.0						0	0	20	
Benzene	BRL	5.0						0	0	20	
Bromochloromethane	BRL	5.0						0	0	20	
Bromodichloromethane	BRL	5.0						0	0	20	
Bromoform	BRL	5.0						0	0	20	
Bromomethane	BRL	5.0						0	0	20	
Carbon disulfide	BRL	5.0						0	0	20	
Carbon tetrachloride	BRL	5.0						0	0	20	
Chlorobenzene	BRL	5.0						0	0	20	
Chloroethane	BRL	10						0	0	20	
Chloroform	BRL	5.0						0	0	20	
Chloromethane	BRL	10						0	0	20	
cis-1,2-Dichloroethene	BRL	5.0						1.350	0	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	BRL	5.0						0	0	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: 2312F00-023ADUP	Client ID: AMW-14	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12686936							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	BRL	5.0						0	0	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	46.58	0	50.00		93.2	70	126	46.68	0	0	
Surr: Dibromofluoromethane	51.97	0	50.00		104	77	121	53.08	0	0	
Surr: Toluene-d8	49.37	0	50.00		98.7	78.6	119	48.61	0	0	

Sample ID: 2312F00-023ADUP	Client ID: AMW-14	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12687002							
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	1.0						0	0	30	
1,1,1-Trichloroethane	BRL	1.0						0	0	30	
1,1,2,2-Tetrachloroethane	BRL	1.0						0	0	30	
1,1,2-Trichloroethane	BRL	1.0						0	0	30	
1,1-Dichloroethane	BRL	1.0						0	0	30	
1,1-Dichloroethene	BRL	2.0						0	0	30	
1,1-Dichloropropene	BRL	1.0						0	0	30	
1,2,3-Trichloropropane	BRL	1.0						0	0	30	
1,2,4-Trichlorobenzene	BRL	1.0						0	0	30	
1,2-Dibromo-3-chloropropane	BRL	1.0						0	0	30	
1,2-Dibromoethane	BRL	1.0						0	0	30	
1,2-Dichlorobenzene	BRL	1.0						0	0	30	
1,2-Dichloroethane	BRL	1.0						0	0	30	
1,2-Dichloropropane	BRL	1.0						0	0	30	
1,3-Dichlorobenzene	BRL	1.0						0	0	30	

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

Client: Atlantic Coast Consulting, Inc.
Project Name Forsyth County-Hightower Road MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: 2312F00-023ADUP	Client ID: AMW-14	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12687002

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3-Dichloropropane	BRL	1.0						0	0	30	
1,4-Dichlorobenzene	BRL	1.0						0	0	30	
2,2-Dichloropropane	BRL	2.0						0	0	30	
2-Butanone	BRL	10						0	0	30	
2-Hexanone	BRL	10						0	0	30	
4-Methyl-2-pentanone	BRL	10						0	0	30	
Acetone	BRL	20						0	0	30	
Acrolein	BRL	20						0	0	30	
Acrylonitrile	BRL	5.0						0	0	30	
Benzene	BRL	1.0						0	0	30	
Bromochloromethane	BRL	1.0						0	0	30	
Bromodichloromethane	BRL	1.0						0	0	30	
Bromoform	BRL	1.0						0	0	30	
Bromomethane	BRL	1.0						0	0	30	
Carbon disulfide	BRL	5.0						0	0	30	
Carbon tetrachloride	BRL	2.0						0	0	30	
Chlorobenzene	BRL	1.0						0	0	30	
Chloroethane	BRL	1.0						0	0	30	
Chloroform	BRL	1.0						0	0	30	
Chloromethane	BRL	1.0						0	0	30	
cis-1,2-Dichloroethene	1.460	1.0						1.350	7.83	30	
cis-1,3-Dichloropropene	BRL	1.0						0	0	30	
Dibromochloromethane	BRL	1.0						0	0	30	
Dibromomethane	BRL	1.0						0	0	30	
Dichlorodifluoromethane	BRL	1.0						0	0	30	
Ethylbenzene	BRL	1.0						0	0	30	
Iodomethane	BRL	2.0						0	0	30	

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

Client: Atlantic Coast Consulting, Inc.
Project Name Forsyth County-Hightower Road MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368347

Sample ID: 2312F00-023ADUP	Client ID: AMW-14	Units: ug/L	Prep Date: 12/15/2023	Run No: 533668							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260D	BatchID: 368347	Analysis Date: 12/18/2023	Seq No: 12687002							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methylene chloride	BRL	5.0						0	0	30	
Naphthalene	BRL	5.0						0	0	30	
Styrene	BRL	1.0						0	0	30	
Tetrachloroethene	BRL	1.0						0	0	30	
Toluene	BRL	1.0						0	0	30	
trans-1,2-Dichloroethene	BRL	2.0						0	0	30	
trans-1,3-Dichloropropene	BRL	2.0						0	0	30	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	30	
Trichloroethene	BRL	1.0						0	0	30	
Trichlorofluoromethane	BRL	1.0						0	0	30	
Vinyl acetate	BRL	10						0	0	30	
Vinyl chloride	BRL	1.0						0	0	30	
Xylenes, Total	BRL	1.0						0	0	30	
Surr: 4-Bromofluorobenzene	46.58	0	50.00		93.2	70	126	46.68	0	0	
Surr: Dibromofluoromethane	51.97	0	50.00		104	77	121	53.08	0	0	
Surr: Toluene-d8	49.37	0	50.00		98.7	78.6	119	48.61	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368355

Sample ID: MB-368355	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533703							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368355	Analysis Date: 12/15/2023	Seq No: 12684372							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368355

Sample ID: MB-368355	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533703							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368355	Analysis Date: 12/15/2023	Seq No: 12684372							
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	50.26	0	50.00		101	70	126				
Surr: Dibromofluoromethane	51.04	0	50.00		102	77	121				
Surr: Toluene-d8	48.98	0	50.00		98.0	78.6	119				

Sample ID: LCS-368355	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533703							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368355	Analysis Date: 12/15/2023	Seq No: 12684379							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368355

Sample ID: LCS-368355	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533703							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368355	Analysis Date: 12/15/2023	Seq No: 12684379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.76	5.0	20.00		98.8	68.6	130				
Benzene	18.42	5.0	20.00		92.1	76.3	122				
Chlorobenzene	19.46	5.0	20.00		97.3	75.2	121				
Toluene	19.09	5.0	20.00		95.4	74.3	124				
Trichloroethene	19.41	5.0	20.00		97.0	71.9	129				
Surr: 4-Bromofluorobenzene	49.78	0	50.00		99.6	70	126				
Surr: Dibromofluoromethane	49.81	0	50.00		99.6	77	121				
Surr: Toluene-d8	49.57	0	50.00		99.1	78.6	119				

Sample ID: 2312E08-003AMS	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533703							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368355	Analysis Date: 12/15/2023	Seq No: 12694800							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	432.0	100	400.0	17.00	104	69	139				
Benzene	386.0	100	400.0		96.5	71.3	133				
Chlorobenzene	407.8	100	400.0		102	77.6	128				
Toluene	401.2	100	400.0		100	72	134				
Trichloroethene	623.2	100	400.0	193.6	107	76.8	136				
Surr: 4-Bromofluorobenzene	994.2	0	1000		99.4	70	126				
Surr: Dibromofluoromethane	1001	0	1000		100	77	121				
Surr: Toluene-d8	1005	0	1000		100	78.6	119				

Sample ID: 2312E08-003AMSD	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533703							
SampleType: MSD	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368355	Analysis Date: 12/15/2023	Seq No: 12694801							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	418.4	100	400.0	17.00	100	69	139	432.0	3.20	56.1	
Benzene	372.6	100	400.0		93.2	71.3	133	386.0	3.53	42.4	

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368355

Sample ID: 2312E08-003AMSD	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533703
SampleType: MSD	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368355	Analysis Date: 12/15/2023	Seq No: 12694801

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	397.8	100	400.0		99.4	77.6	128	407.8	2.48	49.9	
Toluene	392.2	100	400.0		98.0	72	134	401.2	2.27	42.5	
Trichloroethene	594.2	100	400.0	193.6	100	76.8	136	623.2	4.76	51.1	
Surr: 4-Bromofluorobenzene	990.0	0	1000		99.0	70	126	994.2	0	0	
Surr: Dibromofluoromethane	991.4	0	1000		99.1	77	121	1001	0	0	
Surr: Toluene-d8	993.4	0	1000		99.3	78.6	119	1005	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368368

Sample ID: MB-368368	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/15/2023	Seq No: 12684433							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368368

Sample ID: MB-368368	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/15/2023	Seq No: 12684433							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	48.26	0	50.00		96.5	70	126				
Surr: Dibromofluoromethane	50.13	0	50.00		100	77	121				
Surr: Toluene-d8	49.58	0	50.00		99.2	78.6	119				

Sample ID: LCS-368368	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/15/2023	Seq No: 12684434							
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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368368

Sample ID: LCS-368368	Client ID:	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/15/2023	Seq No: 12684434							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.49	5.0	20.00		97.4	68.6	130				
Benzene	18.71	5.0	20.00		93.6	76.3	122				
Chlorobenzene	20.04	5.0	20.00		100	75.2	121				
Toluene	19.75	5.0	20.00		98.8	74.3	124				
Trichloroethene	20.58	5.0	20.00		103	71.9	129				
Surr: 4-Bromofluorobenzene	49.23	0	50.00		98.5	70	126				
Surr: Dibromofluoromethane	48.73	0	50.00		97.5	77	121				
Surr: Toluene-d8	49.30	0	50.00		98.6	78.6	119				

Sample ID: 2312F00-065AMS	Client ID: PHI-GWA-4	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/18/2023	Seq No: 12685867							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	21.62	5.0	20.00		108	69	139				
Benzene	19.72	5.0	20.00		98.6	71.3	133				
Chlorobenzene	20.95	5.0	20.00		105	77.6	128				
Toluene	20.46	5.0	20.00		102	72	134				
Trichloroethene	21.91	5.0	20.00		110	76.8	136				
Surr: 4-Bromofluorobenzene	49.14	0	50.00		98.3	70	126				
Surr: Dibromofluoromethane	49.78	0	50.00		99.6	77	121				
Surr: Toluene-d8	49.72	0	50.00		99.4	78.6	119				

Sample ID: 2312F00-063ADUP	Client ID: PHI-GWA-1A	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/18/2023	Seq No: 12685866							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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

Qualifiers:

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

Client: Atlantic Coast Consulting, Inc.
Project Name Forsyth County-Hightower Road MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368368

Sample ID: 2312F00-063ADUP	Client ID: PH1-GWA-1A	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/18/2023	Seq No: 12685866

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

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

Client: Atlantic Coast Consulting, Inc.
Project Name Forsyth County-Hightower Road MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368368

Sample ID: 2312F00-063ADUP	Client ID: PH1-GWA-1A	Units: ug/L	Prep Date: 12/15/2023	Run No: 533709							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368368	Analysis Date: 12/18/2023	Seq No: 12685866							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0						0	0	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	BRL	5.0						0	0	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	
Trichloroethene	BRL	5.0						0	0	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	49.28	0	50.00		98.6	70	126	48.31	0	0	
Surr: Dibromofluoromethane	48.65	0	50.00		97.3	77	121	50.13	0	0	
Surr: Toluene-d8	49.07	0	50.00		98.1	78.6	119	49.14	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 368375

Sample ID: MB-368375	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533780							
SampleType: MBLK	TestCode: Residue, Dissolved (TDS) by SM2540C-2015	BatchID: 368375	Analysis Date: 12/18/2023	Seq No: 12691080							
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: LCS-368375	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533780							
SampleType: LCS	TestCode: Residue, Dissolved (TDS) by SM2540C-2015	BatchID: 368375	Analysis Date: 12/18/2023	Seq No: 12691081							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

2940 40 3000 98.0 78.33 117.67

Sample ID: 2312H03-001DDUP	Client ID:	Units: mg/L	Prep Date: 12/18/2023	Run No: 533780							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C-2015	BatchID: 368375	Analysis Date: 12/18/2023	Seq No: 12691083							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

2228 40 2292 2.83 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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 369029

Sample ID: MB-369029	Client ID:	Units: mg/L	Prep Date: 01/02/2024	Run No: 534872							
SampleType: MBLK	TestCode: APPENDIX I METALS SW6020B	BatchID: 369029	Analysis Date: 01/03/2024	Seq No: 12717494							
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	0.00400									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0200									
Cobalt	BRL	0.0500									
Copper	BRL	0.0200									
Lead	BRL	0.0100									
Nickel	BRL	0.0400									
Selenium	BRL	0.0500									
Silver	BRL	0.00500									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0500									
Zinc	BRL	0.0200									

Sample ID: LCS-369029	Client ID:	Units: mg/L	Prep Date: 01/02/2024	Run No: 534872							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 369029	Analysis Date: 01/03/2024	Seq No: 12717495							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09924	0.00600	0.1000		99.2	80	120				
Arsenic	0.08896	0.0100	0.1000		89.0	80	120				
Barium	0.1008	0.0200	0.1000		101	80	120				
Beryllium	0.09991	0.00400	0.1000		99.9	80	120				
Cadmium	0.09765	0.00500	0.1000		97.6	80	120				
Chromium	0.1030	0.0200	0.1000		103	80	120				
Cobalt	0.1012	0.0500	0.1000		101	80	120				
Copper	0.09605	0.0200	0.1000		96.1	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 369029

Sample ID: LCS-369029	Client ID:	Units: mg/L	Prep Date: 01/02/2024	Run No: 534872							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 369029	Analysis Date: 01/03/2024	Seq No: 12717495							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.09733	0.0100	0.1000		97.3	80	120				
Nickel	0.1013	0.0400	0.1000		101	80	120				
Selenium	0.09374	0.0500	0.1000		93.7	80	120				
Silver	0.01007	0.00500	0.0100		101	80	120				
Thallium	0.1036	0.00200	0.1000		104	80	120				
Vanadium	0.09994	0.0500	0.1000		99.9	80	120				
Zinc	0.09538	0.0200	0.1000		95.4	80	120				

Sample ID: 2312U14-001BMS	Client ID:	Units: mg/L	Prep Date: 01/02/2024	Run No: 534872							
SampleType: MS	TestCode: APPENDIX I METALS SW6020B	BatchID: 369029	Analysis Date: 01/03/2024	Seq No: 12717497							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09399	0.00600	0.1000		94.0	75	125				
Arsenic	0.08826	0.0100	0.1000		88.3	75	125				
Barium	0.2120	0.0200	0.1000	0.1149	97.1	75	125				
Beryllium	0.09678	0.00400	0.1000		96.8	75	125				
Cadmium	0.09639	0.00500	0.1000		96.4	75	125				
Chromium	0.1033	0.0200	0.1000	0.001868	101	75	125				
Cobalt	0.1020	0.0500	0.1000	0.0004590	102	75	125				
Copper	0.09554	0.0200	0.1000	0.001151	94.4	75	125				
Lead	0.09808	0.0100	0.1000	0.001053	97.0	75	125				
Nickel	0.1013	0.0400	0.1000	0.001608	99.7	75	125				
Selenium	0.09747	0.0500	0.1000		97.5	75	125				
Silver	0.01045	0.00500	0.0100		104	75	125				
Thallium	0.1040	0.00200	0.1000	0.0002854	104	75	125				
Vanadium	0.1011	0.0500	0.1000		101	75	125				
Zinc	0.1148	0.0200	0.1000	0.03155	83.3	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: 369029

Sample ID: 2312U14-001BMSD	Client ID:	Units: mg/L	Prep Date: 01/02/2024	Run No: 534872
SampleType: MSD	TestCode: APPENDIX I METALS SW6020B	BatchID: 369029	Analysis Date: 01/03/2024	Seq No: 12717500

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09596	0.00600	0.1000		96.0	75	125	0.09399	2.08	20	
Arsenic	0.09057	0.0100	0.1000		90.6	75	125	0.08826	2.58	20	
Barium	0.2135	0.0200	0.1000	0.1149	98.6	75	125	0.2120	0.710	20	
Beryllium	0.09535	0.00400	0.1000		95.4	75	125	0.09678	1.49	20	
Cadmium	0.09693	0.00500	0.1000		96.9	75	125	0.09639	0.554	20	
Chromium	0.1020	0.0200	0.1000	0.001868	100	75	125	0.1033	1.27	20	
Cobalt	0.1013	0.0500	0.1000	0.0004590	101	75	125	0.1020	0.695	20	
Copper	0.09398	0.0200	0.1000	0.001151	92.8	75	125	0.09554	1.65	20	
Lead	0.09701	0.0100	0.1000	0.001053	96.0	75	125	0.09808	1.10	20	
Nickel	0.1021	0.0400	0.1000	0.001608	100	75	125	0.1013	0.730	20	
Selenium	0.09246	0.0500	0.1000		92.5	75	125	0.09747	5.28	20	
Silver	0.01058	0.00500	0.0100		106	75	125	0.01045	1.28	20	
Thallium	0.1047	0.00200	0.1000	0.0002854	104	75	125	0.1040	0.751	20	
Vanadium	0.1001	0.0500	0.1000		100	75	125	0.1011	1.00	20	
Zinc	0.1042	0.0200	0.1000	0.03155	72.7	75	125	0.1148	9.70	20	S

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

Client: Atlantic Coast Consulting, Inc.
Project Name Forsyth County-Hightower Road MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: R533482

Sample ID: MB-R533482	Client ID:	Units: mg/L	Prep Date:	Run No: 533482							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R533482	Analysis Date: 12/13/2023	Seq No: 12677527							
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-R533482	Client ID:	Units: mg/L	Prep Date:	Run No: 533482							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R533482	Analysis Date: 12/13/2023	Seq No: 12677526							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.692	1.0	10.00		96.9	90	110				
Nitrate	5.368	0.25	5.000		107	90	110				
Sulfate	26.18	1.0	25.00		105	90	110				

Sample ID: 2312D51-035AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 533482							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R533482	Analysis Date: 12/13/2023	Seq No: 12677540							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	11.18	1.0	10.00	2.134	90.5	90	110				
Nitrate	5.327	0.25	5.000	0.2688	101	90	110				
Sulfate	26.86	1.0	25.00	1.563	101	90	110				

Sample ID: 2312D51-035AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 533482							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R533482	Analysis Date: 12/13/2023	Seq No: 12677541							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	11.15	1.0	10.00	2.134	90.1	90	110	11.18	0.300	15	
Nitrate	5.345	0.25	5.000	0.2688	102	90	110	5.327	0.346	15	
Sulfate	26.06	1.0	25.00	1.563	98.0	90	110	26.86	3.04	15	

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: R533483

Sample ID: MB-R533483	Client ID:	Units: mg/L	Prep Date:	Run No: 533483							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R533483	Analysis Date: 12/13/2023	Seq No: 12677639							
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-R533483	Client ID:	Units: mg/L	Prep Date:	Run No: 533483							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R533483	Analysis Date: 12/13/2023	Seq No: 12677638							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.691	1.0	10.00		96.9	90	110				
Nitrate	5.443	0.25	5.000		109	90	110				
Sulfate	25.80	1.0	25.00		103	90	110				

Sample ID: 2312F00-018BMS	Client ID: AMW-2	Units: mg/L	Prep Date:	Run No: 533483							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R533483	Analysis Date: 12/13/2023	Seq No: 12677651							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	11.27	1.0	10.00	2.144	91.3	90	110				
Nitrate	4.972	0.25	5.000	0.2128	95.2	90	110				
Sulfate	26.79	1.0	25.00	1.646	101	90	110				

Sample ID: 2312F00-018BMSD	Client ID: AMW-2	Units: mg/L	Prep Date:	Run No: 533483							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R533483	Analysis Date: 12/13/2023	Seq No: 12677652							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	11.34	1.0	10.00	2.144	91.9	90	110	11.27	0.561	15	
Nitrate	4.974	0.25	5.000	0.2128	95.2	90	110	4.972	0.034	15	
Sulfate	26.35	1.0	25.00	1.646	98.8	90	110	26.79	1.65	15	

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: R533583

Sample ID: MB-R533583	Client ID:	Units: mg/L	Prep Date:	Run No: 533583							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R533583	Analysis Date: 12/14/2023	Seq No: 12680730							
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-R533583	Client ID:	Units: mg/L	Prep Date:	Run No: 533583							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R533583	Analysis Date: 12/14/2023	Seq No: 12680729							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.903	1.0	10.00		99.0	90	110				
Nitrate	5.467	0.25	5.000		109	90	110				
Sulfate	25.99	1.0	25.00		104	90	110				

Sample ID: 2312F52-013AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 533583							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R533583	Analysis Date: 12/14/2023	Seq No: 12680752							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	11.24	1.0	10.00	2.134	91.1	90	110				
Nitrate	6.213	0.25	5.000	0.9848	105	90	110				
Sulfate	29.45	1.0	25.00	4.080	101	90	110				

Sample ID: 2312F52-016AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 533583							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R533583	Analysis Date: 12/14/2023	Seq No: 12680750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	11.72	1.0	10.00	2.613	91.1	90	110				
Nitrate	5.431	0.25	5.000	0.3551	102	90	110				
Sulfate	26.80	1.0	25.00	1.902	99.6	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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: R533583

Sample ID: 2312F52-016AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 533583							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R533583	Analysis Date: 12/14/2023	Seq No: 12680751							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	11.71	1.0	10.00	2.613	91.0	90	110	11.72	0.055	15
Nitrate	5.505	0.25	5.000	0.3551	103	90	110	5.431	1.36	15
Sulfate	26.89	1.0	25.00	1.902	100.0	90	110	26.80	0.347	15

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: R533704

Sample ID: MB-R533704	Client ID:	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686899							
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-R533704	Client ID:	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.938	1.0	10.00		99.4	90	110				
Nitrate	5.475	0.25	5.000		110	90	110				
Sulfate	25.76	1.0	25.00		103	90	110				

Sample ID: 2312107-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686904							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	12.16	1.0	10.00	3.074	90.9	90	110				
Nitrate	5.301	0.25	5.000	0.2261	102	90	110				
Sulfate	28.15	1.0	25.00	2.923	101	90	110				

Sample ID: 2312107-002BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686905							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	12.21	1.0	10.00	3.074	91.3	90	110	12.16	0.360	15	
Nitrate	5.337	0.25	5.000	0.2261	102	90	110	5.301	0.664	15	
Sulfate	28.35	1.0	25.00	2.923	102	90	110	28.15	0.719	15	

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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: R533743

Sample ID: LCS-R533743	Client ID:	Units: mg/L	Prep Date:	Run No: 533743							
SampleType: LCS	TestCode: Alkalinity by SM2320B-2011	BatchID: R533743	Analysis Date: 12/18/2023	Seq No: 12686931							
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) 122.6 3.00 125.0 98.1 90 110

Sample ID: 2312F00-071BDUP	Client ID: GWC-8A	Units: mg/L	Prep Date:	Run No: 533743							
SampleType: DUP	TestCode: Alkalinity by SM2320B-2011	BatchID: R533743	Analysis Date: 12/18/2023	Seq No: 12686934							
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) 79.62 3.00 77.52 2.68 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 MSWLF
Workorder: 2312F00

ANALYTICAL QC SUMMARY REPORT

BatchID: R533902

Sample ID: LCS-R533902	Client ID:	Units: mg/L	Prep Date:	Run No: 533902							
SampleType: LCS	TestCode: Alkalinity by SM2320B-2011	BatchID: R533902	Analysis Date: 12/19/2023	Seq No: 12689920							
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) 119.6 3.00 125.0 95.7 90 110

Sample ID: 2312F05-001CDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 533902							
SampleType: DUP	TestCode: Alkalinity by SM2320B-2011	BatchID: R533902	Analysis Date: 12/19/2023	Seq No: 12689924							
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) 15.76 3.00 15.35 2.64 30

Sample ID: 2312J74-001ADUP	Client ID:	Units: mg/L	Prep Date:	Run No: 533902							
SampleType: DUP	TestCode: Alkalinity by SM2320B-2011	BatchID: R533902	Analysis Date: 12/19/2023	Seq No: 12690053							
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) 119.7 3.00 121.3 1.34 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	

End of Report



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 26, 2023

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County - Hightower Road MSWLF

Dear Charles Adams:

Order No: 2312I07

Analytical Environmental Services, Inc. received 18 samples on December 15, 2023 9:42 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 07/01/23-06/30/24.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/24 and Total Coliforms/ E. coli, effective 04/25/23-04/24/24.

-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 11/01/25.

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,

Ioana Pacurar
Project Manager

CHAIN OF CUSTODY

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy Suite 100 Roswell, GA 30076					ANALYSIS REQUESTED											Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers		
PHONE: 770-712-9785 or 770-594-5998		EMAIL: charles.adams@atlcc.net					Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC	REMARKS					
SAMPLED BY: <i>H. Auld</i>		SIGNATURE: <i>[Signature]</i>					PRESERVATION (see codes)															
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	H+I	N	I	I	I		N	I	NaOH	S+I	S+I					
		DATE	TIME																			
1	GWC-19R	12/14/23	0935	✓		GW		✓														1
2	PHI-GWC-2	12/14/23	1145	✓		GW	✓	✓	✓	✓												4
3	PHI-GWA-1	12/14/23	0850	✓		GW		✓														1
4	PHI-GWA-2	12/14/23	0900	✓		GW		✓														1
5	PHI-GWC-1	12/14/23	0925	✓		GW		✓														1
6	PHI-GWC-3	12/14/23	0915	✓		GW		✓														1
7	PHI-GWC-3A	12/14/23	0910	✓		GW		✓														1
8	GWC-8A	12/14/23	0945	✓		GW		✓														1
9	SWA-2	12/13/23	1515	✓		SW						✓	✓	✓	✓	✓	✓					6
10	SWC-1	12/13/23	1425	✓		SW	✓					✓	✓	✓	✓	✓	✓					8
11	SWC-2	12/13/23	1510	✓		SW						✓	✓	✓	✓	✓	✓					6
12	SWC-3	12/13/23	1508	✓		SW						✓	✓	✓	✓	✓	✓					6
13	SWC-4	12/13/23	1523	✓		SW	✓					✓	✓	✓	✓	✓	✓					8
14	SWC-4A	12/13/23	1525	✓		SW	✓															2

RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION				RECEIPT			
1. <i>[Signature]</i>		12/15/23 0942		1. <i>[Signature]</i>		12-15-23 0942		PROJECT NAME: Forsyth County - Hightower Road MSWLF				Total # of Containers			
2.				2.				PROJECT #: G020-113				Turnaround Time (TAT) Request			
3.				3.				SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107				<input type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____			
SPECIAL INSTRUCTIONS/COMMENTS: * 48-hr holding time nitrate ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg				SHIPMENT METHOD				SEND REPORT TO: Charles Adams, Betsy McDaniel				STATE PROGRAM (if any): _____			
				OUT: / / VIA: IN: / / VIA: Client FedEx UPS US mail courier other: _____				INVOICE TO (IF DIFFERENT FROM ABOVE):				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>			
								QUOTE #: _____ PO#: _____				DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>			

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

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST = Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

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

CHAIN OF CUSTODY

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy Suite 100 Roswell, GA 30076				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers																																																				
PHONE: 770-712-9785 or 770-594-5998		EMAIL: charles.adams@atlcc.net				<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>Appendix I VOC</td><td>Appendix I Metals</td><td>Alkalinity</td><td>TDS</td><td>Cl, SO4, NO3 *</td><td>SW Metals **</td><td>Chloride</td><td>Cyanide</td><td>COD</td><td>TOC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="16" style="text-align: center;">PRESERVATION (see codes)</td> </tr> <tr> <td>H+I</td><td>N</td><td>I</td><td>I</td><td>I</td><td></td><td>N</td><td>I</td><td>NaOH</td><td>S+I</td><td>S+I</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **	Chloride	Cyanide	COD	TOC									PRESERVATION (see codes)																H+I	N	I	I	I		N	I	NaOH	S+I	S+I							
Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *	SW Metals **													Chloride	Cyanide	COD	TOC																																																
PRESERVATION (see codes)																																																																					
H+I	N	I	I	I		N	I	NaOH	S+I	S+I																																																											
SAMPLED BY: <i>H. Auld</i>		SIGNATURE: <i>Charles Adams</i>				REMARKS																																																															
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE											MATRIX (see codes)																																																					
		DATE	TIME																																																																		
1	SWC-5	12/13/23	1403	✓		SW								✓	✓	✓	✓	✓																																																			
2	PHI-GWA-3A	12/14/23	1550	✓		GW	✓	✓																																																													
3	Trip Blank	—	—	✓		W	✓																																																														
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RELINQUISHED BY: <i>Charles Adams</i>		DATE/TIME: 12-15-23/0942		RECEIVED BY: <i>Charles Adams</i>		DATE/TIME: 12-15-23 0942		PROJECT INFORMATION										RECEIPT																																																			
1.		2.		3.		PROJECT NAME: Forsyth County - Hightower Road MSWLF										Total # of Containers																																																					
2.		3.		PROJECT #: G020-113										Turnaround Time (TAT) Request																																																							
3.		SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107										<input type="checkbox"/> Standard																																																									
SPECIAL INSTRUCTIONS/COMMENTS: *48 hr holding time nitrate ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg		SHIPMENT METHOD										<input type="checkbox"/> 2 Business Day Rush																																																									
		SEND REPORT TO: Charles Adams, Betsy McDaniel										<input type="checkbox"/> Next Business Day Rush																																																									
		INVOICE TO (IF DIFFERENT FROM ABOVE):										<input type="checkbox"/> Same-Day Rush (auth req.)																																																									
		OUT: _____ VIA: _____										<input type="checkbox"/> Other _____																																																									
		IN: _____ VIA: _____										STATE PROGRAM (if any): _____																																																									
		Client _____ FedEx _____ UPS _____ US mail _____ courier _____										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																																																									
		other: _____										DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																																																									
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																																																																					

Client: Atlantic Coast Consulting, Inc.	Client Sample ID: GWC-19R
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/14/2023 9:35:00 AM
Lab ID: 2312I07-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
	SW6020B				(SW3005A)			
Antimony	BRL	0.00600		mg/L	368470	1	12/21/2023 00:28	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:28	IF
Barium	0.101	0.0200		mg/L	368470	1	12/21/2023 00:28	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:28	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:28	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:28	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:28	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:28	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:28	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:28	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:28	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:28	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:28	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:28	IF
Zinc	0.0335	0.0200		mg/L	368470	1	12/21/2023 00:28	IF

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.
Project Name: Forsyth County - Hightower Road MSWLF
Lab ID: 2312I07-002

Client Sample ID: PH1-GWC-2
Collection Date: 12/14/2023 11:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C-2015								
Residue, Dissolved (TDS)	105	10		mg/L	368490	1	12/19/2023 16:15	NN
ION SCAN SW9056A								
Chloride	3.1	1.0		mg/L	R533704	1	12/15/2023 13:06	TM
Nitrate	BRL	0.25		mg/L	R533704	1	12/15/2023 13:06	TM
Sulfate	2.9	1.0		mg/L	R533704	1	12/15/2023 13:06	TM
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,1-Dichloroethane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,1-Dichloroethene	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,2,3-Trichloropropane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368519	1	12/19/2023 23:55	OM
1,2-Dibromoethane	BRL	1.0		ug/L	368519	1	12/19/2023 23:55	OM
1,2-Dichlorobenzene	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
1,2-Dichloroethane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,2-Dichloropropane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
1,4-Dichlorobenzene	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
2-Butanone	BRL	100		ug/L	368519	1	12/19/2023 23:55	OM
2-Hexanone	BRL	50		ug/L	368519	1	12/19/2023 23:55	OM
4-Methyl-2-pentanone	BRL	50		ug/L	368519	1	12/19/2023 23:55	OM
Acetone	BRL	100		ug/L	368519	1	12/19/2023 23:55	OM
Acrylonitrile	BRL	50		ug/L	368519	1	12/19/2023 23:55	OM
Benzene	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Bromochloromethane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Bromodichloromethane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Bromoform	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Bromomethane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Carbon disulfide	BRL	5.0		ug/L	368519	1	12/19/2023 23:55	OM
Carbon tetrachloride	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Chlorobenzene	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Chloroethane	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Chloroform	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Chloromethane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
cis-1,2-Dichloroethene	8.2	2.0		ug/L	368519	1	12/19/2023 23:55	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Dibromochloromethane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Dibromomethane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Ethylbenzene	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Iodomethane	BRL	100		ug/L	368519	1	12/19/2023 23:55	OM
Methylene chloride	BRL	5.0		ug/L	368519	1	12/19/2023 23:55	OM
Styrene	BRL	10		ug/L	368519	1	12/19/2023 23:55	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: PH1-GWC-2
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/14/2023 11:45:00 AM
Lab ID: 2312I07-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D			(SW5030B)					
Tetrachloroethene	3.2	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Toluene	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368519	1	12/19/2023 23:55	OM
Trichloroethene	2.5	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Trichlorofluoromethane	BRL	10		ug/L	368519	1	12/19/2023 23:55	OM
Vinyl acetate	BRL	100		ug/L	368519	1	12/19/2023 23:55	OM
Vinyl chloride	BRL	2.0		ug/L	368519	1	12/19/2023 23:55	OM
Xylenes, Total	BRL	5.0		ug/L	368519	1	12/19/2023 23:55	OM
Surr: 4-Bromofluorobenzene	97.6	70-126		%REC	368519	1	12/19/2023 23:55	OM
Surr: Dibromofluoromethane	102	77-121		%REC	368519	1	12/19/2023 23:55	OM
Surr: Toluene-d8	94.3	78.6-119		%REC	368519	1	12/19/2023 23:55	OM
APPENDIX I METALS SW6020B			(SW3005A)					
Antimony	BRL	0.00600		mg/L	368470	1	12/21/2023 00:32	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:32	IF
Barium	0.0482	0.0200		mg/L	368470	1	12/21/2023 00:32	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:32	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:32	IF
Chromium	0.0174	0.0100		mg/L	368470	1	12/21/2023 00:32	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:32	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:32	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:32	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:32	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:32	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:32	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:32	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:32	IF
Zinc	0.0347	0.0200		mg/L	368470	1	12/21/2023 00:32	IF
Alkalinity by SM2320B-2011								
Alkalinity, Total (As CaCO3)	74.9	3.00		mg/L	R534108	1	12/21/2023 14:45	AH

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 MSWLF	Collection Date: 12/14/2023 8:50:00 AM
Lab ID: 2312I07-003	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	368470	1	12/21/2023 00:35	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:35	IF
Barium	0.0243	0.0200		mg/L	368470	1	12/21/2023 00:35	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:35	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:35	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:35	IF
Cobalt	0.0966	0.0400		mg/L	368470	1	12/21/2023 00:35	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:35	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:35	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:35	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:35	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:35	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:35	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:35	IF
Zinc	0.0213	0.0200		mg/L	368470	1	12/21/2023 00:35	IF

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 MSWLF	Collection Date: 12/14/2023 9:00:00 AM
Lab ID: 2312I07-004	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	368470	1	12/21/2023 00:39	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:39	IF
Barium	0.0768	0.0200		mg/L	368470	1	12/21/2023 00:39	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:39	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:39	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:39	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:39	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:39	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:39	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:39	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:39	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:39	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:39	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:39	IF
Zinc	BRL	0.0200		mg/L	368470	1	12/21/2023 00:39	IF

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 MSWLF	Collection Date: 12/14/2023 9:25:00 AM
Lab ID: 2312I07-005	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	368470	1	12/21/2023 00:43	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:43	IF
Barium	0.0327	0.0200		mg/L	368470	1	12/21/2023 00:43	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:43	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:43	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:43	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:43	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:43	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:43	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:43	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:43	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:43	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:43	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:43	IF
Zinc	BRL	0.0200		mg/L	368470	1	12/21/2023 00:43	IF

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 MSWLF	Collection Date: 12/14/2023 9:15:00 AM
Lab ID: 2312I07-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS								
					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368470	1	12/21/2023 00:46	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:46	IF
Barium	0.0368	0.0200		mg/L	368470	1	12/21/2023 00:46	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:46	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:46	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:46	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:46	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:46	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:46	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:46	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:46	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:46	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:46	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:46	IF
Zinc	BRL	0.0200		mg/L	368470	1	12/21/2023 00:46	IF

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 MSWLF	Collection Date: 12/14/2023 9:20:00 AM
Lab ID: 2312I07-007	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	368470	1	12/21/2023 00:50	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:50	IF
Barium	0.0319	0.0200		mg/L	368470	1	12/21/2023 00:50	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:50	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:50	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:50	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:50	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:50	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:50	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:50	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:50	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:50	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:50	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:50	IF
Zinc	BRL	0.0200		mg/L	368470	1	12/21/2023 00:50	IF

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 MSWLF	Collection Date: 12/14/2023 9:45:00 AM
Lab ID: 2312I07-008	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	368470	1	12/21/2023 00:53	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:53	IF
Barium	0.0479	0.0200		mg/L	368470	1	12/21/2023 00:53	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:53	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:53	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:53	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:53	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:53	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:53	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:53	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:53	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:53	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:53	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:53	IF
Zinc	BRL	0.0200		mg/L	368470	1	12/21/2023 00:53	IF

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: SWA-2
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/13/2023 3:15:00 PM
Lab ID: 2312I07-009	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B-2014								
Organic Carbon, Total	1.77	1.00		mg/L	R534148	1	12/21/2023 17:42	AY
Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	368448	1	12/19/2023 16:42	MS
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	368570	1	12/21/2023 01:03	SK
Inorganic Anions by IC E300.0								
Chloride	2.97	1.00		mg/L	R533937	1	12/19/2023 17:10	TM
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R533910	1	12/20/2023 10:20	AA
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	368507	1	12/21/2023 13:17	RR
Barium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:17	RR
Cadmium	BRL	0.0050		mg/L	368507	1	12/21/2023 13:17	RR
Chromium	BRL	0.0100		mg/L	368507	1	12/21/2023 13:17	RR
Lead	BRL	0.0100		mg/L	368507	1	12/21/2023 13:17	RR
Nickel	BRL	0.0200		mg/L	368507	1	12/21/2023 13:17	RR
Selenium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:17	RR
Silver	BRL	0.0100		mg/L	368507	1	12/21/2023 13:17	RR
Zinc	BRL	0.0200		mg/L	368507	1	12/21/2023 13:17	RR

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.
Project Name: Forsyth County - Hightower Road MSWLF
Lab ID: 2312I07-010

Client Sample ID: SWC-1
Collection Date: 12/13/2023 2:25:00 PM
Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B-2014								
Organic Carbon, Total	2.79	1.00		mg/L	R534148	1	12/21/2023 18:05	AY
Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	368448	1	12/19/2023 16:43	MS
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	368570	1	12/21/2023 01:26	SK
Inorganic Anions by IC E300.0								
Chloride	5.70	1.00		mg/L	R533937	1	12/19/2023 17:26	TM
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R533910	1	12/20/2023 10:20	AA
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,1-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,1-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,2,3-Trichloropropane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368519	1	12/20/2023 00:19	OM
1,2-Dibromoethane	BRL	1.0		ug/L	368519	1	12/20/2023 00:19	OM
1,2-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
1,2-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,2-Dichloropropane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
1,4-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
2-Butanone	BRL	100		ug/L	368519	1	12/20/2023 00:19	OM
2-Hexanone	BRL	50		ug/L	368519	1	12/20/2023 00:19	OM
4-Methyl-2-pentanone	BRL	50		ug/L	368519	1	12/20/2023 00:19	OM
Acetone	BRL	100		ug/L	368519	1	12/20/2023 00:19	OM
Acrylonitrile	BRL	50		ug/L	368519	1	12/20/2023 00:19	OM
Benzene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Bromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Bromodichloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Bromoform	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Bromomethane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Carbon disulfide	BRL	5.0		ug/L	368519	1	12/20/2023 00:19	OM
Carbon tetrachloride	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Chlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Chloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Chloroform	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Chloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	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-1
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/13/2023 2:25:00 PM
Lab ID: 2312I07-010	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	368519	1	12/20/2023 00:19	OM
Dibromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Dibromomethane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Ethylbenzene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Iodomethane	BRL	100		ug/L	368519	1	12/20/2023 00:19	OM
Methylene chloride	BRL	5.0		ug/L	368519	1	12/20/2023 00:19	OM
Styrene	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Tetrachloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Toluene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368519	1	12/20/2023 00:19	OM
Trichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Trichlorofluoromethane	BRL	10		ug/L	368519	1	12/20/2023 00:19	OM
Vinyl acetate	BRL	100		ug/L	368519	1	12/20/2023 00:19	OM
Vinyl chloride	BRL	2.0		ug/L	368519	1	12/20/2023 00:19	OM
Xylenes, Total	BRL	5.0		ug/L	368519	1	12/20/2023 00:19	OM
Surr: 4-Bromofluorobenzene	94.5	70-126		%REC	368519	1	12/20/2023 00:19	OM
Surr: Dibromofluoromethane	94.8	77-121		%REC	368519	1	12/20/2023 00:19	OM
Surr: Toluene-d8	92.6	78.6-119		%REC	368519	1	12/20/2023 00:19	OM

METALS, TOTAL SW6010D				(SW3010A)				
Arsenic	BRL	0.0500		mg/L	368507	1	12/21/2023 13:20	RR
Barium	0.0227	0.0200		mg/L	368507	1	12/21/2023 13:20	RR
Cadmium	BRL	0.0050		mg/L	368507	1	12/21/2023 13:20	RR
Chromium	BRL	0.0100		mg/L	368507	1	12/21/2023 13:20	RR
Lead	BRL	0.0100		mg/L	368507	1	12/21/2023 13:20	RR
Nickel	BRL	0.0200		mg/L	368507	1	12/21/2023 13:20	RR
Selenium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:20	RR
Silver	BRL	0.0100		mg/L	368507	1	12/21/2023 13:20	RR
Zinc	BRL	0.0200		mg/L	368507	1	12/21/2023 13:20	RR

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-2
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/13/2023 3:10:00 PM
Lab ID: 2312I07-011	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B-2014								
Organic Carbon, Total	9.15	1.00		mg/L	R534148	1	12/21/2023 18:28	AY
Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	368448	1	12/19/2023 16:59	MS
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	368570	1	12/21/2023 01:30	SK
Inorganic Anions by IC E300.0								
Chloride	7.24	1.00		mg/L	R533937	1	12/19/2023 17:42	TM
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R533910	1	12/20/2023 10:20	AA
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	368507	1	12/21/2023 13:23	RR
Barium	0.0407	0.0200		mg/L	368507	1	12/21/2023 13:23	RR
Cadmium	BRL	0.0050		mg/L	368507	1	12/21/2023 13:23	RR
Chromium	BRL	0.0100		mg/L	368507	1	12/21/2023 13:23	RR
Lead	BRL	0.0100		mg/L	368507	1	12/21/2023 13:23	RR
Nickel	BRL	0.0200		mg/L	368507	1	12/21/2023 13:23	RR
Selenium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:23	RR
Silver	BRL	0.0100		mg/L	368507	1	12/21/2023 13:23	RR
Zinc	BRL	0.0200		mg/L	368507	1	12/21/2023 13:23	RR

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-3
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/13/2023 3:08:00 PM
Lab ID: 2312I07-012	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B-2014								
Organic Carbon, Total	1.82	1.00		mg/L	R534148	1	12/21/2023 19:01	AY
Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	368448	1	12/19/2023 17:01	MS
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	368570	1	12/21/2023 01:34	SK
Inorganic Anions by IC E300.0								
Chloride	2.81	1.00		mg/L	R533937	1	12/19/2023 17:58	TM
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R533910	1	12/20/2023 10:20	AA
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	368507	1	12/21/2023 13:26	RR
Barium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:26	RR
Cadmium	BRL	0.0050		mg/L	368507	1	12/21/2023 13:26	RR
Chromium	BRL	0.0100		mg/L	368507	1	12/21/2023 13:26	RR
Lead	BRL	0.0100		mg/L	368507	1	12/21/2023 13:26	RR
Nickel	BRL	0.0200		mg/L	368507	1	12/21/2023 13:26	RR
Selenium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:26	RR
Silver	BRL	0.0100		mg/L	368507	1	12/21/2023 13:26	RR
Zinc	BRL	0.0200		mg/L	368507	1	12/21/2023 13:26	RR

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 MSWLF	Collection Date: 12/13/2023 3:23:00 PM
Lab ID: 2312I07-013	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B-2014								
Organic Carbon, Total	1.77	1.00		mg/L	R534148	1	12/21/2023 19:29	AY
Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	368448	1	12/19/2023 16:34	MS
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	368570	1	12/21/2023 01:38	SK
Inorganic Anions by IC E300.0								
Chloride	3.36	1.00		mg/L	R533937	1	12/19/2023 18:14	TM
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R533910	1	12/20/2023 10:20	AA
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,1-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,1-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,2,3-Trichloropropane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368519	1	12/20/2023 00:43	OM
1,2-Dibromoethane	BRL	1.0		ug/L	368519	1	12/20/2023 00:43	OM
1,2-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
1,2-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,2-Dichloropropane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
1,4-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
2-Butanone	BRL	100		ug/L	368519	1	12/20/2023 00:43	OM
2-Hexanone	BRL	50		ug/L	368519	1	12/20/2023 00:43	OM
4-Methyl-2-pentanone	BRL	50		ug/L	368519	1	12/20/2023 00:43	OM
Acetone	BRL	100		ug/L	368519	1	12/20/2023 00:43	OM
Acrylonitrile	BRL	50		ug/L	368519	1	12/20/2023 00:43	OM
Benzene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Bromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Bromodichloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Bromoform	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Bromomethane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Carbon disulfide	BRL	5.0		ug/L	368519	1	12/20/2023 00:43	OM
Carbon tetrachloride	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Chlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Chloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Chloroform	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Chloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	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: SWC-4
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/13/2023 3:23:00 PM
Lab ID: 2312I07-013	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	368519	1	12/20/2023 00:43	OM
Dibromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Dibromomethane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Ethylbenzene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Iodomethane	BRL	100		ug/L	368519	1	12/20/2023 00:43	OM
Methylene chloride	BRL	5.0		ug/L	368519	1	12/20/2023 00:43	OM
Styrene	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Tetrachloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Toluene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368519	1	12/20/2023 00:43	OM
Trichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Trichlorofluoromethane	BRL	10		ug/L	368519	1	12/20/2023 00:43	OM
Vinyl acetate	BRL	100		ug/L	368519	1	12/20/2023 00:43	OM
Vinyl chloride	BRL	2.0		ug/L	368519	1	12/20/2023 00:43	OM
Xylenes, Total	BRL	5.0		ug/L	368519	1	12/20/2023 00:43	OM
Surr: 4-Bromofluorobenzene	96.1	70-126		%REC	368519	1	12/20/2023 00:43	OM
Surr: Dibromofluoromethane	94.8	77-121		%REC	368519	1	12/20/2023 00:43	OM
Surr: Toluene-d8	92.3	78.6-119		%REC	368519	1	12/20/2023 00:43	OM

METALS, TOTAL SW6010D				(SW3010A)				
Arsenic	BRL	0.0500		mg/L	368507	1	12/21/2023 13:29	RR
Barium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:29	RR
Cadmium	BRL	0.0050		mg/L	368507	1	12/21/2023 13:29	RR
Chromium	BRL	0.0100		mg/L	368507	1	12/21/2023 13:29	RR
Lead	BRL	0.0100		mg/L	368507	1	12/21/2023 13:29	RR
Nickel	BRL	0.0200		mg/L	368507	1	12/21/2023 13:29	RR
Selenium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:29	RR
Silver	BRL	0.0100		mg/L	368507	1	12/21/2023 13:29	RR
Zinc	BRL	0.0200		mg/L	368507	1	12/21/2023 13:29	RR

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.
Project Name: Forsyth County - Hightower Road MSWLF
Lab ID: 2312I07-014

Client Sample ID: SWC-4A
Collection Date: 12/13/2023 3:25:00 PM
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	368519	1	12/20/2023 01:07	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
1,1-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
1,1-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
1,2,3-Trichloropropane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368519	1	12/20/2023 01:07	OM
1,2-Dibromoethane	BRL	1.0		ug/L	368519	1	12/20/2023 01:07	OM
1,2-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
1,2-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
1,2-Dichloropropane	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
1,4-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
2-Butanone	BRL	100		ug/L	368519	1	12/20/2023 01:07	OM
2-Hexanone	BRL	50		ug/L	368519	1	12/20/2023 01:07	OM
4-Methyl-2-pentanone	BRL	50		ug/L	368519	1	12/20/2023 01:07	OM
Acetone	BRL	100		ug/L	368519	1	12/20/2023 01:07	OM
Acrylonitrile	BRL	50		ug/L	368519	1	12/20/2023 01:07	OM
Benzene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Bromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Bromodichloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Bromoform	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Bromomethane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Carbon disulfide	BRL	5.0		ug/L	368519	1	12/20/2023 01:07	OM
Carbon tetrachloride	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Chlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Chloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Chloroform	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Chloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Dibromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Dibromomethane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Ethylbenzene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Iodomethane	BRL	100		ug/L	368519	1	12/20/2023 01:07	OM
Methylene chloride	BRL	5.0		ug/L	368519	1	12/20/2023 01:07	OM
Styrene	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Tetrachloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Toluene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368519	1	12/20/2023 01:07	OM
Trichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:07	OM
Trichlorofluoromethane	BRL	10		ug/L	368519	1	12/20/2023 01:07	OM
Vinyl acetate	BRL	100		ug/L	368519	1	12/20/2023 01:07	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 MSWLF	Collection Date: 12/13/2023 3:25:00 PM
Lab ID: 2312I07-014	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	368519	1	12/20/2023 01:07	OM
Xylenes, Total	BRL	5.0		ug/L	368519	1	12/20/2023 01:07	OM
Surr: 4-Bromofluorobenzene	96.6	70-126		%REC	368519	1	12/20/2023 01:07	OM
Surr: Dibromofluoromethane	97.3	77-121		%REC	368519	1	12/20/2023 01:07	OM
Surr: Toluene-d8	93.1	78.6-119		%REC	368519	1	12/20/2023 01:07	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-5
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/13/2023 2:03:00 PM
Lab ID: 2312I07-015	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B-2014								
Organic Carbon, Total	10.4	1.00		mg/L	R534148	1	12/21/2023 19:57	AY
Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)								
Cyanide, Total	BRL	0.010		mg/L	368448	1	12/19/2023 17:04	MS
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00050		mg/L	368570	1	12/21/2023 01:42	SK
Inorganic Anions by IC E300.0								
Chloride	20.7	1.00		mg/L	R534299	1	12/23/2023 13:38	JO
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R533910	1	12/20/2023 10:20	AA
METALS, TOTAL SW6010D (SW3010A)								
Arsenic	BRL	0.0500		mg/L	368507	1	12/21/2023 13:33	RR
Barium	0.0450	0.0200		mg/L	368507	1	12/21/2023 13:33	RR
Cadmium	BRL	0.0050		mg/L	368507	1	12/21/2023 13:33	RR
Chromium	BRL	0.0100		mg/L	368507	1	12/21/2023 13:33	RR
Lead	BRL	0.0100		mg/L	368507	1	12/21/2023 13:33	RR
Nickel	BRL	0.0200		mg/L	368507	1	12/21/2023 13:33	RR
Selenium	BRL	0.0200		mg/L	368507	1	12/21/2023 13:33	RR
Silver	BRL	0.0100		mg/L	368507	1	12/21/2023 13:33	RR
Zinc	BRL	0.0200		mg/L	368507	1	12/21/2023 13:33	RR

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-3A
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/14/2023 3:50:00 PM
Lab ID: 2312I07-016	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	368519	1	12/20/2023 01:31	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
1,1-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
1,1-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
1,2,3-Trichloropropane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368519	1	12/20/2023 01:31	OM
1,2-Dibromoethane	BRL	1.0		ug/L	368519	1	12/20/2023 01:31	OM
1,2-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
1,2-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
1,2-Dichloropropane	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
1,4-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
2-Butanone	BRL	100		ug/L	368519	1	12/20/2023 01:31	OM
2-Hexanone	BRL	50		ug/L	368519	1	12/20/2023 01:31	OM
4-Methyl-2-pentanone	BRL	50		ug/L	368519	1	12/20/2023 01:31	OM
Acetone	BRL	100		ug/L	368519	1	12/20/2023 01:31	OM
Acrylonitrile	BRL	50		ug/L	368519	1	12/20/2023 01:31	OM
Benzene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Bromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Bromodichloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Bromoform	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Bromomethane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Carbon disulfide	BRL	5.0		ug/L	368519	1	12/20/2023 01:31	OM
Carbon tetrachloride	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Chlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Chloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Chloroform	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Chloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Dibromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Dibromomethane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Ethylbenzene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Iodomethane	BRL	100		ug/L	368519	1	12/20/2023 01:31	OM
Methylene chloride	BRL	5.0		ug/L	368519	1	12/20/2023 01:31	OM
Styrene	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Tetrachloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Toluene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368519	1	12/20/2023 01:31	OM
Trichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:31	OM
Trichlorofluoromethane	BRL	10		ug/L	368519	1	12/20/2023 01:31	OM
Vinyl acetate	BRL	100		ug/L	368519	1	12/20/2023 01:31	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-3A
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/14/2023 3:50:00 PM
Lab ID: 2312I07-016	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	368519	1	12/20/2023 01:31	OM
Xylenes, Total	BRL	5.0		ug/L	368519	1	12/20/2023 01:31	OM
Surr: 4-Bromofluorobenzene	97.6	70-126		%REC	368519	1	12/20/2023 01:31	OM
Surr: Dibromofluoromethane	100	77-121		%REC	368519	1	12/20/2023 01:31	OM
Surr: Toluene-d8	94.7	78.6-119		%REC	368519	1	12/20/2023 01:31	OM
APPENDIX I METALS SW6020B					(SW3005A)			
Antimony	BRL	0.00600		mg/L	368470	1	12/21/2023 00:57	IF
Arsenic	BRL	0.0100		mg/L	368470	1	12/21/2023 00:57	IF
Barium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:57	IF
Beryllium	BRL	0.00300		mg/L	368470	1	12/21/2023 00:57	IF
Cadmium	BRL	0.00500		mg/L	368470	1	12/21/2023 00:57	IF
Chromium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:57	IF
Cobalt	BRL	0.0400		mg/L	368470	1	12/21/2023 00:57	IF
Copper	BRL	0.0200		mg/L	368470	1	12/21/2023 00:57	IF
Lead	BRL	0.0150		mg/L	368470	1	12/21/2023 00:57	IF
Nickel	BRL	0.0200		mg/L	368470	1	12/21/2023 00:57	IF
Selenium	BRL	0.0100		mg/L	368470	1	12/21/2023 00:57	IF
Silver	BRL	0.0100		mg/L	368470	1	12/21/2023 00:57	IF
Thallium	BRL	0.00200		mg/L	368470	1	12/21/2023 00:57	IF
Vanadium	BRL	0.0200		mg/L	368470	1	12/21/2023 00:57	IF
Zinc	BRL	0.0200		mg/L	368470	1	12/21/2023 00:57	IF

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.
Project Name: Forsyth County - Hightower Road MSWLF
Lab ID: 2312I07-017

Client Sample ID: Trip Blank (1)
Collection Date: 12/15/2023 9:42:00 AM
Matrix: Trip Blank

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	368519	1	12/20/2023 01:55	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
1,1-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
1,1-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
1,2,3-Trichloropropane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368519	1	12/20/2023 01:55	OM
1,2-Dibromoethane	BRL	1.0		ug/L	368519	1	12/20/2023 01:55	OM
1,2-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
1,2-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
1,2-Dichloropropane	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
1,4-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
2-Butanone	BRL	100		ug/L	368519	1	12/20/2023 01:55	OM
2-Hexanone	BRL	50		ug/L	368519	1	12/20/2023 01:55	OM
4-Methyl-2-pentanone	BRL	50		ug/L	368519	1	12/20/2023 01:55	OM
Acetone	BRL	100		ug/L	368519	1	12/20/2023 01:55	OM
Acrylonitrile	BRL	50		ug/L	368519	1	12/20/2023 01:55	OM
Benzene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Bromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Bromodichloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Bromoform	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Bromomethane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Carbon disulfide	BRL	5.0		ug/L	368519	1	12/20/2023 01:55	OM
Carbon tetrachloride	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Chlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Chloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Chloroform	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Chloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Dibromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Dibromomethane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Ethylbenzene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Iodomethane	BRL	100		ug/L	368519	1	12/20/2023 01:55	OM
Methylene chloride	BRL	5.0		ug/L	368519	1	12/20/2023 01:55	OM
Styrene	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Tetrachloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Toluene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368519	1	12/20/2023 01:55	OM
Trichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 01:55	OM
Trichlorofluoromethane	BRL	10		ug/L	368519	1	12/20/2023 01:55	OM
Vinyl acetate	BRL	100		ug/L	368519	1	12/20/2023 01:55	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: Trip Blank (1)
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/15/2023 9:42:00 AM
Lab ID: 2312I07-017	Matrix: Trip Blank

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	368519	1	12/20/2023 01:55	OM
Xylenes, Total	BRL	5.0		ug/L	368519	1	12/20/2023 01:55	OM
Surr: 4-Bromofluorobenzene	95.9	70-126		%REC	368519	1	12/20/2023 01:55	OM
Surr: Dibromofluoromethane	99.2	77-121		%REC	368519	1	12/20/2023 01:55	OM
Surr: Toluene-d8	94.4	78.6-119		%REC	368519	1	12/20/2023 01:55	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.
Project Name: Forsyth County - Hightower Road MSWLF
Lab ID: 2312I07-018

Client Sample ID: Trip Blank (1)
Collection Date: 12/15/2023 9:42:00 AM
Matrix: Trip Blank

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	368519	1	12/20/2023 02:19	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
1,1-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
1,1-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
1,2,3-Trichloropropane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	368519	1	12/20/2023 02:19	OM
1,2-Dibromoethane	BRL	1.0		ug/L	368519	1	12/20/2023 02:19	OM
1,2-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
1,2-Dichloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
1,2-Dichloropropane	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
1,4-Dichlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
2-Butanone	BRL	100		ug/L	368519	1	12/20/2023 02:19	OM
2-Hexanone	BRL	50		ug/L	368519	1	12/20/2023 02:19	OM
4-Methyl-2-pentanone	BRL	50		ug/L	368519	1	12/20/2023 02:19	OM
Acetone	BRL	100		ug/L	368519	1	12/20/2023 02:19	OM
Acrylonitrile	BRL	50		ug/L	368519	1	12/20/2023 02:19	OM
Benzene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Bromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Bromodichloromethane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Bromoform	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Bromomethane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Carbon disulfide	BRL	5.0		ug/L	368519	1	12/20/2023 02:19	OM
Carbon tetrachloride	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Chlorobenzene	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Chloroethane	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Chloroform	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Chloromethane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Dibromochloromethane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Dibromomethane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Ethylbenzene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Iodomethane	BRL	100		ug/L	368519	1	12/20/2023 02:19	OM
Methylene chloride	BRL	5.0		ug/L	368519	1	12/20/2023 02:19	OM
Styrene	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Tetrachloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Toluene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	368519	1	12/20/2023 02:19	OM
Trichloroethene	BRL	2.0		ug/L	368519	1	12/20/2023 02:19	OM
Trichlorofluoromethane	BRL	10		ug/L	368519	1	12/20/2023 02:19	OM
Vinyl acetate	BRL	100		ug/L	368519	1	12/20/2023 02:19	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: Trip Blank (1)
Project Name: Forsyth County - Hightower Road MSWLF	Collection Date: 12/15/2023 9:42:00 AM
Lab ID: 2312I07-018	Matrix: Trip Blank

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	368519	1	12/20/2023 02:19	OM
Xylenes, Total	BRL	5.0		ug/L	368519	1	12/20/2023 02:19	OM
Surr: 4-Bromofluorobenzene	94.7	70-126		%REC	368519	1	12/20/2023 02:19	OM
Surr: Dibromofluoromethane	97.7	77-121		%REC	368519	1	12/20/2023 02:19	OM
Surr: Toluene-d8	93.6	78.6-119		%REC	368519	1	12/20/2023 02:19	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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.**

AES Work Order Number: **2312107**

2. Carrier: FedEx UPS USPS Client Courier Other

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

12. Cooler 1 Temperature 1.0 °C Cooler 2 Temperature 1.0 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

13. Comments: _____

I certify that I have completed sections 1-13 (dated initials). CP 12/15/23

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

26. Comments: _____

I certify that I have completed sections 14-26 (dated initials). MJ 12/18/23

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

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

*Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH. 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 27-29(dated initials). MJ 12/18/23

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County - Hightower Road MSWLF
Workorder: 2312107

ANALYTICAL QC SUMMARY REPORT

BatchID: 368448

Sample ID: MB-368448	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 533870							
SampleType: MBLK	TestCode: Total Cyanide SM4500 CN-C, E-2016	BatchID: 368448	Analysis Date: 12/19/2023	Seq No: 12689042							
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-368448	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 533870							
SampleType: LCS	TestCode: Total Cyanide SM4500 CN-C, E-2016	BatchID: 368448	Analysis Date: 12/19/2023	Seq No: 12689055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.08900 0.010 0.1000 89.0 85 115

Sample ID: 2312107-013DMS	Client ID: SWC-4	Units: mg/L	Prep Date: 12/19/2023	Run No: 533870							
SampleType: MS	TestCode: Total Cyanide SM4500 CN-C, E-2016	BatchID: 368448	Analysis Date: 12/19/2023	Seq No: 12689049							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.09000 0.010 0.1000 90.0 76 120

Sample ID: 2312121-003EMS	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 533870							
SampleType: MS	TestCode: Total Cyanide SM4500 CN-C, E-2016	BatchID: 368448	Analysis Date: 12/19/2023	Seq No: 12689046							
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 76 120

Sample ID: 2312121-003EMSD	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 533870							
SampleType: MSD	TestCode: Total Cyanide SM4500 CN-C, E-2016	BatchID: 368448	Analysis Date: 12/19/2023	Seq No: 12689047							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.08300 0.010 0.1000 83.0 76 120 0.09200 10.3 19.1

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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368470

Sample ID: MB-368470	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 534010							
SampleType: MBLK	TestCode: APPENDIX I METALS SW6020B	BatchID: 368470	Analysis Date: 12/20/2023	Seq No: 12693304							
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	0.00400									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0200									
Cobalt	BRL	0.0500									
Copper	BRL	0.0200									
Lead	BRL	0.0100									
Nickel	BRL	0.0400									
Selenium	BRL	0.0500									
Silver	BRL	0.00500									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0500									
Zinc	BRL	0.0200									

Sample ID: LCS-368470	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 534010							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368470	Analysis Date: 12/20/2023	Seq No: 12693306							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1103	0.00600	0.1000		110	80	120				
Arsenic	0.1126	0.0100	0.1000		113	80	120				
Barium	0.1026	0.0200	0.1000		103	80	120				
Beryllium	0.1106	0.00400	0.1000		111	80	120				
Cadmium	0.1061	0.00500	0.1000		106	80	120				
Chromium	0.1028	0.0200	0.1000		103	80	120				
Cobalt	0.1030	0.0500	0.1000		103	80	120				
Copper	0.1123	0.0200	0.1000		112	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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368470

Sample ID: LCS-368470	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 534010							
SampleType: LCS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368470	Analysis Date: 12/20/2023	Seq No: 12693306							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.1055	0.0100	0.1000		105	80	120				
Nickel	0.1113	0.0400	0.1000		111	80	120				
Selenium	0.1086	0.0500	0.1000		109	80	120				
Silver	0.009878	0.00500	0.0100		98.8	80	120				
Thallium	0.1005	0.00200	0.1000		101	80	120				
Vanadium	0.1026	0.0500	0.1000		103	80	120				
Zinc	0.1129	0.0200	0.1000		113	80	120				

Sample ID: 2312G67-075BMS	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 534010							
SampleType: MS	TestCode: APPENDIX I METALS SW6020B	BatchID: 368470	Analysis Date: 12/20/2023	Seq No: 12693309							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1050	0.00600	0.1000		105	75	125				
Arsenic	0.1132	0.0100	0.1000		113	75	125				
Barium	0.1021	0.0200	0.1000	0.001185	101	75	125				
Beryllium	0.1091	0.00400	0.1000		109	75	125				
Cadmium	0.1048	0.00500	0.1000		105	75	125				
Chromium	0.1030	0.0200	0.1000		103	75	125				
Cobalt	0.09933	0.0500	0.1000		99.3	75	125				
Copper	0.1074	0.0200	0.1000		107	75	125				
Lead	0.1001	0.0100	0.1000		100	75	125				
Nickel	0.1043	0.0400	0.1000	0.0005720	104	75	125				
Selenium	0.1064	0.0500	0.1000		106	75	125				
Silver	0.01017	0.00500	0.0100		102	75	125				
Thallium	0.1010	0.00200	0.1000	0.0002430	101	75	125				
Vanadium	0.1021	0.0500	0.1000		102	75	125				
Zinc	0.1125	0.0200	0.1000		112	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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368470

Sample ID: 2312G67-075BMSD	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 534010
SampleType: MSD	TestCode: APPENDIX I METALS SW6020B	BatchID: 368470	Analysis Date: 12/20/2023	Seq No: 12693310

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1076	0.00600	0.1000		108	75	125	0.1050	2.38	20	
Arsenic	0.1099	0.0100	0.1000		110	75	125	0.1132	3.03	20	
Barium	0.1086	0.0200	0.1000	0.001185	107	75	125	0.1021	6.17	20	
Beryllium	0.1105	0.00400	0.1000		111	75	125	0.1091	1.30	20	
Cadmium	0.1016	0.00500	0.1000		102	75	125	0.1048	3.09	20	
Chromium	0.1067	0.0200	0.1000		107	75	125	0.1030	3.49	20	
Cobalt	0.1087	0.0500	0.1000		109	75	125	0.09933	8.97	20	
Copper	0.1106	0.0200	0.1000		111	75	125	0.1074	2.94	20	
Lead	0.1055	0.0100	0.1000		106	75	125	0.1001	5.27	20	
Nickel	0.1099	0.0400	0.1000	0.0005720	109	75	125	0.1043	5.22	20	
Selenium	0.1020	0.0500	0.1000		102	75	125	0.1064	4.24	20	
Silver	0.01063	0.00500	0.0100		106	75	125	0.01017	4.45	20	
Thallium	0.1063	0.00200	0.1000	0.0002430	106	75	125	0.1010	5.19	20	
Vanadium	0.1043	0.0500	0.1000		104	75	125	0.1021	2.21	20	
Zinc	0.1084	0.0200	0.1000		108	75	125	0.1125	3.67	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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368490

Sample ID: MB-368490	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 533894							
SampleType: MBLK	TestCode: Residue, Dissolved (TDS) by SM2540C-2015	BatchID: 368490	Analysis Date: 12/19/2023	Seq No: 12691256							
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: LCS-368490	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 533894							
SampleType: LCS	TestCode: Residue, Dissolved (TDS) by SM2540C-2015	BatchID: 368490	Analysis Date: 12/19/2023	Seq No: 12691258							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

2780 40 3000 92.7 78.33 117.67

Sample ID: 2312L16-001ADUP	Client ID:	Units: mg/L	Prep Date: 12/19/2023	Run No: 533894							
SampleType: DUP	TestCode: Residue, Dissolved (TDS) by SM2540C-2015	BatchID: 368490	Analysis Date: 12/19/2023	Seq No: 12691261							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Dissolved (TDS)

367.0 10 374.0 1.89 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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368507

Sample ID: MB-368507	Client ID:	Units: mg/L	Prep Date: 12/20/2023	Run No: 534273							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 368507	Analysis Date: 12/21/2023	Seq No: 12701677							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: LCS-368507	Client ID:	Units: mg/L	Prep Date: 12/20/2023	Run No: 534273							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 368507	Analysis Date: 12/21/2023	Seq No: 12701678							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.028	0.0500	1.000		103	80	120				
Barium	1.038	0.0200	1.000		104	80	120				
Cadmium	1.035	0.0050	1.000		104	80	120				
Chromium	1.046	0.0100	1.000		105	80	120				
Lead	1.047	0.0100	1.000		105	80	120				
Nickel	1.068	0.0200	1.000		107	80	120				
Selenium	1.011	0.0200	1.000		101	80	120				
Silver	0.1033	0.0100	0.1000		103	80	120				
Zinc	1.042	0.0200	1.000		104	80	120				

Sample ID: 2312H48-001BMS	Client ID:	Units: mg/L	Prep Date: 12/20/2023	Run No: 534273							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 368507	Analysis Date: 12/21/2023	Seq No: 12701682							
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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368507

Sample ID: 2312H48-001BMS	Client ID:	Units: mg/L	Prep Date: 12/20/2023	Run No: 534273							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 368507	Analysis Date: 12/21/2023	Seq No: 12701682							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.029	0.0500	1.000		103	75	125				
Barium	1.018	0.0200	1.000	0.01056	101	75	125				
Cadmium	1.034	0.0050	1.000	0.003010	103	75	125				
Chromium	1.024	0.0100	1.000		102	75	125				
Lead	1.024	0.0100	1.000		102	75	125				
Nickel	1.041	0.0200	1.000		104	75	125				
Selenium	1.017	0.0200	1.000		102	75	125				
Silver	0.1022	0.0100	0.1000		102	75	125				
Zinc	1.040	0.0200	1.000	0.01673	102	75	125				

Sample ID: 2312H48-001BMSD	Client ID:	Units: mg/L	Prep Date: 12/20/2023	Run No: 534273							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 368507	Analysis Date: 12/21/2023	Seq No: 12701683							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.028	0.0500	1.000		103	75	125	1.029	0.130	20	
Barium	1.019	0.0200	1.000	0.01056	101	75	125	1.018	0.093	20	
Cadmium	1.031	0.0050	1.000	0.003010	103	75	125	1.034	0.222	20	
Chromium	1.025	0.0100	1.000		102	75	125	1.024	0.084	20	
Lead	1.026	0.0100	1.000		103	75	125	1.024	0.235	20	
Nickel	1.041	0.0200	1.000		104	75	125	1.041	0.026	20	
Selenium	1.011	0.0200	1.000		101	75	125	1.017	0.629	20	
Silver	0.1020	0.0100	0.1000		102	75	125	0.1022	0.215	20	
Zinc	1.041	0.0200	1.000	0.01673	102	75	125	1.040	0.095	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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368519

Sample ID: MB-368519	Client ID:	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/19/2023	Seq No: 12689855							
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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368519

Sample ID: MB-368519	Client ID:	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899							
SampleType: MBLK	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/19/2023	Seq No: 12689855							
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	46.94	0	50.00		93.9	70	126				
Surr: Dibromofluoromethane	48.41	0	50.00		96.8	77	121				
Surr: Toluene-d8	47.56	0	50.00		95.1	78.6	119				

Sample ID: LCS-368519	Client ID:	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/19/2023	Seq No: 12689865							
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 MSWLF
Workorder: 2312107

ANALYTICAL QC SUMMARY REPORT

BatchID: 368519

Sample ID: LCS-368519	Client ID:	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899							
SampleType: LCS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/19/2023	Seq No: 12689865							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.63	5.0	50.00		97.3	68.6	130				
Benzene	50.25	5.0	50.00		100	76.3	122				
Chlorobenzene	52.51	5.0	50.00		105	75.2	121				
Toluene	51.42	5.0	50.00		103	74.3	124				
Trichloroethene	56.22	5.0	50.00		112	71.9	129				
Surr: 4-Bromofluorobenzene	49.54	0	50.00		99.1	70	126				
Surr: Dibromofluoromethane	49.47	0	50.00		98.9	77	121				
Surr: Toluene-d8	48.14	0	50.00		96.3	78.6	119				

Sample ID: 2312107-014AMS	Client ID: SWC-4A	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899							
SampleType: MS	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/20/2023	Seq No: 12695171							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	17.78	5.0	20.00		88.9	69	139				
Benzene	19.08	5.0	20.00		95.4	71.3	133				
Chlorobenzene	19.40	5.0	20.00		97.0	77.6	128				
Toluene	19.47	5.0	20.00		97.4	72	134				
Trichloroethene	20.74	5.0	20.00		104	76.8	136				
Surr: 4-Bromofluorobenzene	47.91	0	50.00		95.8	70	126				
Surr: Dibromofluoromethane	49.55	0	50.00		99.1	77	121				
Surr: Toluene-d8	48.33	0	50.00		96.7	78.6	119				

Sample ID: 2312107-013ADUP	Client ID: SWC-4	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899							
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/20/2023	Seq No: 12695161							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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

Qualifiers:

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

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County - Hightower Road MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368519

Sample ID: 2312I07-013ADUP	Client ID: SWC-4	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/20/2023	Seq No: 12695161

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

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

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County - Hightower Road MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: 368519

Sample ID: 2312I07-013ADUP	Client ID: SWC-4	Units: ug/L	Prep Date: 12/19/2023	Run No: 533899
SampleType: DUP	TestCode: APPENDIX I VOLATILE ORGANICS SW8260D	BatchID: 368519	Analysis Date: 12/20/2023	Seq No: 12695161

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0						0	0	20	
cis-1,3-Dichloropropene	BRL	5.0						0	0	20	
Dibromochloromethane	BRL	5.0						0	0	20	
Dibromomethane	BRL	5.0						0	0	20	
Ethylbenzene	BRL	5.0						0	0	20	
Iodomethane	BRL	10						0	0	20	
Methylene chloride	BRL	5.0						0	0	20	
Styrene	BRL	5.0						0	0	20	
Tetrachloroethene	BRL	5.0						0	0	20	
Toluene	BRL	5.0						0	0	20	
trans-1,2-Dichloroethene	BRL	5.0						0	0	20	
trans-1,3-Dichloropropene	BRL	5.0						0	0	20	
trans-1,4-Dichloro-2-butene	BRL	10						0	0	20	
Trichloroethene	BRL	5.0						0	0	20	
Trichlorofluoromethane	BRL	5.0						0	0	20	
Vinyl acetate	BRL	10						0	0	20	
Vinyl chloride	BRL	2.0						0	0	20	
Xylenes, Total	BRL	10						0	0	20	
Surr: 4-Bromofluorobenzene	46.39	0	50.00		92.8	70	126	48.05	0	0	
Surr: Dibromofluoromethane	48.82	0	50.00		97.6	77	121	47.39	0	0	
Surr: Toluene-d8	47.35	0	50.00		94.7	78.6	119	46.16	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 MSWLF
Workorder: 2312107

ANALYTICAL QC SUMMARY REPORT

BatchID: 368570

Sample ID: MB-368570	Client ID:	Units: mg/L	Prep Date: 12/20/2023	Run No: 534002							
SampleType: MBLK	TestCode: Mercury, Total SW7470A	BatchID: 368570	Analysis Date: 12/21/2023	Seq No: 12692942							
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-368570	Client ID:	Units: mg/L	Prep Date: 12/20/2023	Run No: 534002							
SampleType: LCS	TestCode: Mercury, Total SW7470A	BatchID: 368570	Analysis Date: 12/21/2023	Seq No: 12692943							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.003944 0.00020 0.0040 98.6 80 120

Sample ID: 2312107-009AMS	Client ID: SWA-2	Units: mg/L	Prep Date: 12/20/2023	Run No: 534002							
SampleType: MS	TestCode: Mercury, Total SW7470A	BatchID: 368570	Analysis Date: 12/22/2023	Seq No: 12697839							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004201 0.00020 0.0040 105 75 125

Sample ID: 2312107-009AMSD	Client ID: SWA-2	Units: mg/L	Prep Date: 12/20/2023	Run No: 534002							
SampleType: MSD	TestCode: Mercury, Total SW7470A	BatchID: 368570	Analysis Date: 12/21/2023	Seq No: 12692948							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004222 0.00020 0.0040 106 75 125 0.004201 0.499 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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: R533704

Sample ID: MB-R533704	Client ID:	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686899							
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-R533704	Client ID:	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.938	1.0	10.00		99.4	90	110				
Nitrate	5.475	0.25	5.000		110	90	110				
Sulfate	25.76	1.0	25.00		103	90	110				

Sample ID: 2312I07-002BMS	Client ID: PH1-GWC-2	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686904							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	12.16	1.0	10.00	3.074	90.9	90	110				
Nitrate	5.301	0.25	5.000	0.2261	102	90	110				
Sulfate	28.15	1.0	25.00	2.923	101	90	110				

Sample ID: 2312I07-002BMSD	Client ID: PH1-GWC-2	Units: mg/L	Prep Date:	Run No: 533704							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R533704	Analysis Date: 12/15/2023	Seq No: 12686905							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	12.21	1.0	10.00	3.074	91.3	90	110	12.16	0.360	15	
Nitrate	5.337	0.25	5.000	0.2261	102	90	110	5.301	0.664	15	
Sulfate	28.35	1.0	25.00	2.923	102	90	110	28.15	0.719	15	

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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: R533910

Sample ID: MB-R533910	Client ID:	Units: mg/L	Prep Date:	Run No: 533910							
SampleType: MBLK	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R533910	Analysis Date: 12/20/2023	Seq No: 12690099							
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-R533910	Client ID:	Units: mg/L	Prep Date:	Run No: 533910							
SampleType: LCS	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R533910	Analysis Date: 12/20/2023	Seq No: 12690100							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 476.1 10.0 500.0 95.2 90 110

Sample ID: 2312I07-013EMS	Client ID: SWC-4	Units: mg/L	Prep Date:	Run No: 533910							
SampleType: MS	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R533910	Analysis Date: 12/20/2023	Seq No: 12690102							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 339.5 12.5 375.0 90.5 90 110

Sample ID: 2312I07-015DMS	Client ID: SWC-5	Units: mg/L	Prep Date:	Run No: 533910							
SampleType: MS	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R533910	Analysis Date: 12/20/2023	Seq No: 12690115							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 339.5 12.5 375.0 90.5 90 110

Sample ID: 2312I07-013EMSD	Client ID: SWC-4	Units: mg/L	Prep Date:	Run No: 533910							
SampleType: MSD	TestCode: Chemical Oxygen Demand (COD) E410.4	BatchID: R533910	Analysis Date: 12/20/2023	Seq No: 12690103							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 342.3 12.5 375.0 91.3 90 110 339.5 0.815 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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: R533937

Sample ID: MB-R533937	Client ID:	Units: mg/L	Prep Date:	Run No: 533937							
SampleType: MBLK	TestCode: Inorganic Anions by IC E300.0	BatchID: R533937	Analysis Date: 12/19/2023	Seq No: 12690988							
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-R533937	Client ID:	Units: mg/L	Prep Date:	Run No: 533937							
SampleType: LCS	TestCode: Inorganic Anions by IC E300.0	BatchID: R533937	Analysis Date: 12/19/2023	Seq No: 12690988							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.33 1.00 10.00 103 90 110

Sample ID: 2312G67-081CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 533937							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R533937	Analysis Date: 12/20/2023	Seq No: 12691012							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 15.35 1.00 10.00 3.448 119 90 110 S

Sample ID: 2312G67-083CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 533937							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R533937	Analysis Date: 12/20/2023	Seq No: 12691014							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 18.29 1.00 10.00 4.011 143 90 110 S

Sample ID: 2312G67-081CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 533937							
SampleType: MSD	TestCode: Inorganic Anions by IC E300.0	BatchID: R533937	Analysis Date: 12/20/2023	Seq No: 12691013							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 13.85 1.00 10.00 3.448 104 90 110 15.35 10.3 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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: R534108

Sample ID: LCS-R534108	Client ID:	Units: mg/L	Prep Date:	Run No: 534108							
SampleType: LCS	TestCode: Alkalinity by SM2320B-2011	BatchID: R534108	Analysis Date: 12/21/2023	Seq No: 12696659							
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) 126.9 3.00 125.0 102 90 110

Sample ID: 2312G67-022DDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 534108							
SampleType: DUP	TestCode: Alkalinity by SM2320B-2011	BatchID: R534108	Analysis Date: 12/21/2023	Seq No: 12696661							
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) 21.64 3.00 22.90 5.69 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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: R534148

Sample ID: MB-R534148	Client ID:	Units: mg/L	Prep Date:	Run No: 534148							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) by SM5310B-2014	BatchID: R534148	Analysis Date: 12/21/2023	Seq No: 12697402							
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-R534148	Client ID:	Units: mg/L	Prep Date:	Run No: 534148							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) by SM5310B-2014	BatchID: R534148	Analysis Date: 12/21/2023	Seq No: 12697394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

23.28 1.00 25.00 93.1 85 115

Sample ID: 2312I21-001FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 534148							
SampleType: MS	TestCode: Total Organic Carbon (TOC) by SM5310B-2014	BatchID: R534148	Analysis Date: 12/21/2023	Seq No: 12697407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

28.86 1.00 25.00 3.312 102 85 115

Sample ID: 2312I21-002FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 534148							
SampleType: MS	TestCode: Total Organic Carbon (TOC) by SM5310B-2014	BatchID: R534148	Analysis Date: 12/21/2023	Seq No: 12697440							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

28.39 1.00 25.00 2.719 103 85 115

Sample ID: 2312I21-001FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 534148							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) by SM5310B-2014	BatchID: R534148	Analysis Date: 12/21/2023	Seq No: 12697410							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

29.37 1.00 25.00 3.312 104 85 115 28.86 1.75 15

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 MSWLF
Workorder: 2312I07

ANALYTICAL QC SUMMARY REPORT

BatchID: R534148

Sample ID: 2312I21-002FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 534148							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) by SM5310B-2014	BatchID: R534148	Analysis Date: 12/21/2023	Seq No: 12697443							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total	28.64	1.00	25.00	2.719	104	85	115	28.39	0.877	15	
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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 MSWLF
Workorder: 2312107

ANALYTICAL QC SUMMARY REPORT

BatchID: R534299

Sample ID: MB-R534299	Client ID:	Units: mg/L	Prep Date:	Run No: 534299							
SampleType: MBLK	TestCode: Inorganic Anions by IC E300.0	BatchID: R534299	Analysis Date: 12/23/2023	Seq No: 12702142							
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-R534299	Client ID:	Units: mg/L	Prep Date:	Run No: 534299							
SampleType: LCS	TestCode: Inorganic Anions by IC E300.0	BatchID: R534299	Analysis Date: 12/23/2023	Seq No: 12702141							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.42 1.00 10.00 104 90 110

Sample ID: 2312121-002CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 534299							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R534299	Analysis Date: 12/23/2023	Seq No: 12702172							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 12.61 1.00 10.00 3.052 95.6 90 110

Sample ID: 2312121-004CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 534299							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R534299	Analysis Date: 12/23/2023	Seq No: 12702174							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 11.63 1.00 10.00 1.996 96.3 90 110

Sample ID: 2312121-002CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 534299							
SampleType: MSD	TestCode: Inorganic Anions by IC E300.0	BatchID: R534299	Analysis Date: 12/23/2023	Seq No: 12702173							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 12.56 1.00 10.00 3.052 95.0 90 110 12.61 0.445 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

ATTACHMENT B
STATISTICAL ANALYSIS

**STATISTICAL ANALYSIS:
Kruskal-Wallis Non-Parametric Test**

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2023 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	GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	1%
1,1-Dichloroethane	PH1-GWB-2	FALSE	1%
1,1-Dichloroethane	PH1-GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWC-2	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	1%
1,1-Dichloroethane	PH1-GWC-4	FALSE	1%
1,1-Dichloroethane	PH1-GWA-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-1	FALSE	0.45%
1,1-Dichloroethane	GWC-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-GWB-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-2	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-4	FALSE	0.45%
Barium	PH1-GWA-2	TRUE	1%
Barium	PH1-GWB-1	TRUE	1%
Barium	PH1-GWC-2	TRUE	1%
Barium	GWC-1	TRUE	1%
Barium	PH1-GWA-1	TRUE	1%
Barium	PH1-GWA-1A	TRUE	1%
Barium	PH1-GWB-2	FALSE	1%
Barium	PH1-GWC-1	TRUE	1%
Barium	PH1-GWC-3	TRUE	1%
Barium	PH1-GWC-4	TRUE	1%
Barium	PH1-GWC-3A	TRUE	1%
Barium	PH1-GWA-2	TRUE	0.45%
Barium	PH1-GWB-1	TRUE	0.45%
Barium	PH1-GWC-2	FALSE	0.45%
Barium	GWC-1	TRUE	0.45%
Barium	PH1-GWA-1	FALSE	0.45%
Barium	PH1-GWA-1A	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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	PH1-GWB-2	FALSE	0.45%
Barium	PH1-GWC-1	TRUE	0.45%
Barium	PH1-GWC-3	TRUE	0.45%
Barium	PH1-GWC-4	TRUE	0.45%
Barium	PH1-GWC-3A	TRUE	0.45%
Chromium	PH1-GWA-2	FALSE	1%
Chromium	PH1-GWB-1	FALSE	1%
Chromium	PH1-GWC-2	TRUE	1%
Chromium	GWC-1	FALSE	1%
Chromium	PH1-GWA-1	FALSE	1%
Chromium	PH1-GWA-1A	FALSE	1%
Chromium	PH1-GWB-2	FALSE	1%
Chromium	PH1-GWC-1	FALSE	1%
Chromium	PH1-GWC-3	FALSE	1%
Chromium	PH1-GWC-4	FALSE	1%
Chromium	PH1-GWC-3A	FALSE	1%
Chromium	PH1-GWA-2	FALSE	0.45%
Chromium	PH1-GWB-1	FALSE	0.45%
Chromium	PH1-GWC-2	TRUE	0.45%
Chromium	GWC-1	FALSE	0.45%
Chromium	PH1-GWA-1	FALSE	0.45%
Chromium	PH1-GWA-1A	FALSE	0.45%
Chromium	PH1-GWB-2	FALSE	0.45%
Chromium	PH1-GWC-1	FALSE	0.45%
Chromium	PH1-GWC-3	FALSE	0.45%
Chromium	PH1-GWC-4	FALSE	0.45%
Chromium	PH1-GWC-3A	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	GWC-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-GWB-2	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	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%

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 2023 Groundwater Monitoring Event
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	0.45%
cis-1,2-Dichloroethene	GWC-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-GWB-2	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	0.45%
Cobalt	PH1-GWA-2	FALSE	1%
Cobalt	PH1-GWB-1	FALSE	1%
Cobalt	PH1-GWC-2	FALSE	1%
Cobalt	GWC-1	FALSE	1%
Cobalt	PH1-GWA-1	TRUE	1%
Cobalt	PH1-GWA-1A	FALSE	1%
Cobalt	PH1-GWB-2	FALSE	1%
Cobalt	PH1-GWC-1	FALSE	1%
Cobalt	PH1-GWC-3	FALSE	1%
Cobalt	PH1-GWC-4	FALSE	1%
Cobalt	PH1-GWC-3A	FALSE	1%
Cobalt	PH1-GWA-2	FALSE	0.45%
Cobalt	PH1-GWB-1	FALSE	0.45%
Cobalt	PH1-GWC-2	FALSE	0.45%
Cobalt	GWC-1	FALSE	0.45%
Cobalt	PH1-GWA-1	TRUE	0.45%
Cobalt	PH1-GWA-1A	FALSE	0.45%
Cobalt	PH1-GWB-2	FALSE	0.45%
Cobalt	PH1-GWC-1	FALSE	0.45%
Cobalt	PH1-GWC-3	FALSE	0.45%
Cobalt	PH1-GWC-4	FALSE	0.45%
Cobalt	PH1-GWC-3A	FALSE	0.45%
Nickel	PH1-GWA-2	FALSE	1%
Nickel	PH1-GWB-1	FALSE	1%
Nickel	PH1-GWC-2	FALSE	1%
Nickel	GWC-1	FALSE	1%
Nickel	PH1-GWA-1	FALSE	1%
Nickel	PH1-GWA-1A	FALSE	1%
Nickel	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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Nickel	PH1-GWC-1	FALSE	1%
Nickel	PH1-GWC-3	FALSE	1%
Nickel	PH1-GWC-4	FALSE	1%
Nickel	PH1-GWC-3A	FALSE	1%
Nickel	PH1-GWA-2	FALSE	0.45%
Nickel	PH1-GWB-1	FALSE	0.45%
Nickel	PH1-GWC-2	FALSE	0.45%
Nickel	GWC-1	FALSE	0.45%
Nickel	PH1-GWA-1	FALSE	0.45%
Nickel	PH1-GWA-1A	FALSE	0.45%
Nickel	PH1-GWB-2	FALSE	0.45%
Nickel	PH1-GWC-1	FALSE	0.45%
Nickel	PH1-GWC-3	FALSE	0.45%
Nickel	PH1-GWC-4	FALSE	0.45%
Nickel	PH1-GWC-3A	FALSE	0.45%
Tetrachloroethene	PH1-GWA-2	FALSE	1%
Tetrachloroethene	PH1-GWB-1	FALSE	1%
Tetrachloroethene	GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1A	FALSE	1%
Tetrachloroethene	PH1-GWB-2	FALSE	1%
Tetrachloroethene	PH1-GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWC-2	TRUE	1%
Tetrachloroethene	PH1-GWC-3	TRUE	1%
Tetrachloroethene	PH1-GWC-3A	TRUE	1%
Tetrachloroethene	PH1-GWC-4	FALSE	1%
Tetrachloroethene	PH1-GWA-2	FALSE	0.45%
Tetrachloroethene	PH1-GWB-1	FALSE	0.45%
Tetrachloroethene	GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1A	FALSE	0.45%
Tetrachloroethene	PH1-GWB-2	FALSE	0.45%
Tetrachloroethene	PH1-GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWC-2	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3A	TRUE	0.45%
Tetrachloroethene	PH1-GWC-4	FALSE	0.45%
Trichloroethene	PH1-GWA-2	TRUE	1%
Trichloroethene	PH1-GWB-1	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2023 Groundwater Monitoring Event
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-1	FALSE	1%
Trichloroethene	PH1-GWA-1	FALSE	1%
Trichloroethene	PH1-GWA-1A	FALSE	1%
Trichloroethene	PH1-GWB-2	FALSE	1%
Trichloroethene	PH1-GWC-1	FALSE	1%
Trichloroethene	PH1-GWC-2	TRUE	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%
Trichloroethene	PH1-GWB-1	FALSE	0.45%
Trichloroethene	GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1A	FALSE	0.45%
Trichloroethene	PH1-GWB-2	FALSE	0.45%
Trichloroethene	PH1-GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWC-2	TRUE	0.45%
Trichloroethene	PH1-GWC-3	TRUE	0.45%
Trichloroethene	PH1-GWC-3A	TRUE	0.45%
Trichloroethene	PH1-GWC-4	FALSE	0.45%
Zinc	PH1-GWA-2	FALSE	1%
Zinc	PH1-GWB-1	FALSE	1%
Zinc	PH1-GWC-2	FALSE	1%
Zinc	GWC-1	FALSE	1%
Zinc	PH1-GWA-1	TRUE	1%
Zinc	PH1-GWA-1A	FALSE	1%
Zinc	PH1-GWB-2	TRUE	1%
Zinc	PH1-GWC-1	FALSE	1%
Zinc	PH1-GWC-3	FALSE	1%
Zinc	PH1-GWC-4	FALSE	1%
Zinc	PH1-GWC-3A	FALSE	1%
Zinc	PH1-GWA-2	FALSE	0.45%
Zinc	PH1-GWB-1	FALSE	0.45%
Zinc	PH1-GWC-2	FALSE	0.45%
Zinc	GWC-1	FALSE	0.45%
Zinc	PH1-GWA-1	TRUE	0.45%
Zinc	PH1-GWA-1A	FALSE	0.45%
Zinc	PH1-GWB-2	TRUE	0.45%
Zinc	PH1-GWC-1	FALSE	0.45%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phase I
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	PH1-GWC-3	FALSE	0.45%
Zinc	PH1-GWC-4	FALSE	0.45%
Zinc	PH1-GWC-3A	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	6/18/2018	ND<1	62
	12/17/2018	ND<1	62
	6/13/2019	ND<1	62
	12/12/2019	ND<1	62
	6/25/2020	ND<1	62
	12/18/2020	ND<1	62
	6/15/2021	ND<1	62
	12/15/2021	ND<1	62
	6/6/2022	ND<1	62
	12/12/2022	ND<1	62
	6/20/2023	ND<1	62
	12/14/2023	ND<1	62

Rank Sum = 744

Rank Mean = 62

PH1-GWA-4	6/18/2018	ND<1	62
	12/18/2018	ND<1	62
	6/11/2019	ND<1	62
	12/9/2019	ND<1	62
	6/24/2020	ND<1	62
	12/15/2020	ND<1	62
	6/16/2021	ND<1	62
	12/14/2021	ND<1	62
	6/7/2022	ND<1	62
	12/15/2022	ND<1	62
	6/23/2023	ND<1	62
	12/12/2023	ND<1	62

Rank Sum = 744

Rank Mean = 62

Background Rank Sum = 1488

Background Rank Mean = 62

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/18/2018	ND<1	62
	12/18/2018	ND<1	62
	6/11/2019	ND<1	62
	12/9/2019	ND<1	62
	6/24/2020	ND<1	62
	12/15/2020	ND<1	62
	6/16/2021	ND<1	62
	12/14/2021	ND<1	62
	6/7/2022	ND<1	62
	12/14/2022	ND<1	62
	6/21/2023	ND<1	62

	12/13/2023	ND<1	62
Rank Sum = 744			
Rank Mean = 62			

PH1-GWB-1	6/18/2018	ND<1	62
	12/17/2018	ND<1	62
	6/11/2019	ND<1	62
	12/10/2019	ND<1	62
	6/24/2020	ND<1	62
	12/17/2020	ND<1	62
	6/14/2021	ND<1	62
	12/13/2021	ND<1	62
	6/7/2022	ND<1	62
	12/12/2022	ND<1	62
	6/20/2023	ND<1	62
	12/12/2023	ND<1	62

Rank Sum = 744

Rank Mean = 62

GWC-1	6/19/2018	ND<1	62
	12/17/2018	ND<1	62
	6/13/2019	ND<1	62
	12/10/2019	ND<1	62
	6/22/2020	ND<1	62
	12/16/2020	ND<1	62
	6/15/2021	ND<1	62
	12/15/2021	ND<1	62
	6/7/2022	ND<1	62
	12/12/2022	ND<1	62
	6/19/2023	ND<1	62
	12/11/2023	ND<1	62

Rank Sum = 744

Rank Mean = 62

PH1-GWA-1	6/19/2018	ND<1	62
	12/18/2018	ND<1	62
	6/10/2019	ND<1	62
	12/9/2019	ND<1	62
	6/22/2020	ND<1	62
	12/15/2020	ND<1	62
	6/15/2021	ND<1	62
	12/13/2021	ND<1	62
	6/8/2022	ND<1	62
	12/14/2022	ND<1	62
	6/20/2023	ND<1	62
	12/13/2023	ND<1	62

Rank Sum = 744

Rank Mean = 62

PH1-GWA-1A	6/19/2018	ND<1	62
	12/18/2018	ND<1	62
	6/10/2019	ND<1	62
	12/10/2019	ND<1	62
	6/22/2020	ND<1	62
	12/18/2020	ND<1	62
	6/15/2021	ND<1	62
	12/13/2021	ND<1	62

Forsyth County - Hightower Road Landfill - Phase I

1,1-Dichloroethane

6/8/2022	ND<1	62
12/15/2022	ND<1	62
6/22/2023	ND<1	62
12/11/2023	ND<1	62

Rank Sum = 744
Rank Mean = 62

PH1-GWB-2	6/19/2018	ND<1	62
	12/17/2018	ND<1	62
	6/12/2019	ND<1	62
	12/12/2019	ND<1	62
	6/24/2020	ND<1	62
	12/17/2020	ND<1	62
	6/16/2021	ND<1	62
	12/13/2021	ND<1	62
	6/9/2022	ND<1	62
	12/12/2022	ND<1	62
	6/20/2023	ND<1	62
	12/12/2023	ND<1	62

Rank Sum = 744
Rank Mean = 62

PH1-GWC-1	6/19/2018	ND<1	62
	12/19/2018	ND<1	62
	6/13/2019	ND<1	62
	12/11/2019	ND<1	62
	6/22/2020	ND<1	62
	12/17/2020	ND<1	62
	6/16/2021	ND<1	62
	12/15/2021	ND<1	62
	6/9/2022	ND<1	62
	12/14/2022	ND<1	62
	6/19/2023	ND<1	62
	12/13/2023	ND<1	62

Rank Sum = 744
Rank Mean = 62

PH1-GWC-2	6/19/2018	ND<1	62
	12/18/2018	2.8	131
	6/10/2019	3	135
	12/10/2019	3.7	149
	6/22/2020	3.1	138
	12/17/2020	3.8	150
	6/17/2021	3	136
	12/14/2021	2.9	133
	6/8/2022	ND<1	62
	12/14/2022	2.4	126
	6/22/2023	ND<1	62
	12/14/2023	ND<1	62

Rank Sum = 1346
Rank Mean = 112.167

PH1-GWC-3	6/19/2018	3.2	141
	12/18/2018	2.7	130
	6/10/2019	3.3	144
	12/9/2019	4	151
	6/22/2020	2.9	134

Forsyth County - Hightower Road Landfill - Phase I

1,1-Dichloroethane

12/15/2020	3.6	147
6/14/2021	3.4	145
12/14/2021	3.2	142
6/7/2022	3.2	143
12/15/2022	4.5	153
6/22/2023	3.4	146
12/13/2023	4.3	152

Rank Sum = 1728
Rank Mean = 144

PH1-GWC-3A	6/19/2018	2.6	129
	12/18/2018	2.3	124
	6/10/2019	2.5	127
	12/9/2019	3.1	139
	6/26/2020	ND<1	62
	12/15/2020	3	137
	6/14/2021	2.8	132
	12/14/2021	2.3	125
	6/7/2022	3.1	140
	12/15/2022	3.6	148
	6/22/2023	ND<1	62
	12/13/2023	2.5	128

Rank Sum = 1453
Rank Mean = 121.083

PH1-GWC-4	6/19/2018	ND<1	62
	12/19/2018	ND<1	62
	6/13/2019	ND<1	62
	6/22/2020	ND<1	62
	12/17/2020	ND<1	62
	6/16/2021	ND<1	62
	12/15/2021	ND<1	62
	6/6/2022	ND<1	62
	6/19/2023	ND<1	62

Rank Sum = 558
Rank Mean = 62

Calculation Results:

Kruskal-Wallis H Statistic = 60.2768

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 125.46

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

60.2768 > 19.6752 indicating a significant group difference at 5% significance level

125.46 > 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 62

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	62	0	36.4455
PH1-GWB-1	62	0	36.4455
GWC-1	62	0	36.4455
PH1-GWA-1	62	0	36.4455
PH1-GWA-1A	62	0	36.4455
PH1-GWB-2	62	0	36.4455
PH1-GWC-1	62	0	36.4455

PH1-GWC-2	112.167	50.1667	36.4455
PH1-GWC-3	144	82	36.4455
PH1-GWC-3A	121.083	59.0833	36.4455
PH1-GWC-4	62	0	40.292

**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 62

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	62	0	41.5488
PH1-GWB-1	62	0	41.5488
GWC-1	62	0	41.5488
PH1-GWA-1	62	0	41.5488
PH1-GWA-1A	62	0	41.5488
PH1-GWB-2	62	0	41.5488
PH1-GWC-1	62	0	41.5488
PH1-GWC-2	112.167	50.1667	41.5488
PH1-GWC-3	144	82	41.5488
PH1-GWC-3A	121.083	59.0833	41.5488
PH1-GWC-4	62	0	45.9339

Kruskal-Wallis Non-Parametric Test

Parameter: 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	6/18/2018	ND<10	20.5
	12/17/2018	ND<10	20.5
	6/13/2019	ND<10	20.5
	12/12/2019	ND<10	20.5
	6/25/2020	ND<10	20.5
	12/18/2020	ND<10	20.5
	6/15/2021	ND<10	20.5
	12/15/2021	ND<10	20.5
	6/6/2022	ND<10	20.5
	12/12/2022	ND<10	20.5
	6/20/2023	ND<10	20.5
	12/14/2023	ND<10	20.5

Rank Sum = 246

Rank Mean = 20.5

PH1-GWA-4	6/19/2018	ND<10	20.5
	12/19/2018	ND<10	20.5
	6/12/2019	ND<10	20.5
	12/10/2019	ND<10	20.5
	6/25/2020	ND<10	20.5
	12/16/2020	ND<10	20.5
	6/17/2021	ND<10	20.5
	12/15/2021	ND<10	20.5
	6/8/2022	ND<10	20.5
	12/15/2022	ND<10	20.5
	6/23/2023	ND<10	20.5
	12/13/2023	ND<10	20.5

Rank Sum = 246

Rank Mean = 20.5

Background Rank Sum = 492

Background Rank Mean = 20.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/19/2018	61	126
	12/19/2018	81	138
	6/12/2019	84	141
	12/10/2019	84.2	143
	6/25/2020	64.6	129
	12/16/2020	65.5	130
	6/17/2021	71.7	134
	12/15/2021	71.6	133
	6/8/2022	59	125
	12/15/2022	68.9	132
	6/22/2023	48.5	117

Forsyth County - Hightower Road Landfill - Phase I				Barium
	12/14/2023	76.8	135	
Rank Sum = 1583				
Rank Mean = 131.917				
<hr/>				
PH1-GWB-1	6/19/2018	62	127	
	12/18/2018	53	121	
	6/12/2019	82	140	
	12/11/2019	67	131	
	6/25/2020	79.3	137	
	12/18/2020	50.5	120	
	6/15/2021	63.1	128	
	12/14/2021	56.8	124	
	6/8/2022	53.7	122	
	12/13/2022	40.1	106	
	6/21/2023	45.1	113	
	12/13/2023	46	114	
Rank Sum = 1483				
Rank Mean = 123.583				
<hr/>				
PH1-GWC-2	6/19/2018	ND<10	20.5	
	12/18/2018	26	74	
	6/10/2019	39	104	
	12/10/2019	ND<10	20.5	
	6/22/2020	33.6	98	
	12/17/2020	ND<10	20.5	
	6/17/2021	20.6	43	
	12/17/2021	ND<10	20.5	
	6/8/2022	20.9	44	
	12/14/2022	24.7	61	
	6/22/2023	48.5	118	
	12/14/2023	48.2	116	
Rank Sum = 740				
Rank Mean = 61.6667				
<hr/>				
GWC-1	6/20/2018	94	148	
	12/18/2018	150	152	
	6/13/2019	93	146	
	12/11/2019	85.2	144	
	6/23/2020	95.3	150	
	12/17/2020	81.1	139	
	6/16/2021	86.1	145	
	12/16/2021	84	142	
	6/8/2022	79.1	136	
	12/13/2022	93.1	147	
	6/20/2023	95.1	149	
	12/12/2023	112	151	
Rank Sum = 1749				
Rank Mean = 145.75				
<hr/>				
PH1-GWA-1	6/20/2018	34	99	
	12/19/2018	24	54	
	6/11/2019	24	55	
	12/10/2019	20.3	42	
	6/23/2020	27.7	82	
	12/16/2020	ND<10	20.5	
	6/16/2021	28.7	85	
	12/14/2021	22.8	49	

Forsyth County - Hightower Road Landfill - Phase I				Barium
	6/9/2022	25.3	67	
	12/15/2022	ND<10	20.5	
	6/21/2023	24.6	60	
	12/14/2023	24.3	58	
Rank Sum = 692				
Rank Mean = 57.6667				
<hr/>				
PH1-GWA-1A	6/20/2018	25	65	
	12/19/2018	27	78	
	6/11/2019	24	56	
	12/10/2019	23.4	51	
	6/22/2020	21.7	45	
	12/18/2020	27.4	80	
	6/16/2021	24.8	63	
	12/14/2021	22.6	47	
	6/8/2022	25.9	72	
	12/15/2022	35.1	102	
	6/22/2023	25.4	68	
	12/12/2023	25.6	70	
Rank Sum = 797				
Rank Mean = 66.4167				
<hr/>				
PH1-GWB-2	6/20/2018	ND<10	20.5	
	12/18/2018	22	46	
	6/13/2019	ND<10	20.5	
	12/13/2019	ND<10	20.5	
	6/25/2020	ND<10	20.5	
	12/18/2020	ND<10	20.5	
	6/17/2021	ND<10	20.5	
	12/14/2021	ND<10	20.5	
	6/10/2022	ND<10	20.5	
	12/13/2022	ND<10	20.5	
	6/21/2023	20.2	41	
	12/13/2023	ND<10	20.5	
Rank Sum = 292				
Rank Mean = 24.3333				
<hr/>				
PH1-GWC-1	6/20/2018	42	108	
	12/20/2018	47	115	
	6/13/2019	50	119	
	12/12/2019	43.7	112	
	6/23/2020	42.8	111	
	12/18/2020	32.1	95	
	6/17/2021	42.1	110	
	12/16/2021	30.6	92	
	6/10/2022	42	109	
	12/15/2022	34.3	101	
	6/20/2023	39.9	105	
	12/14/2023	32.7	96	
Rank Sum = 1273				
Rank Mean = 106.083				
<hr/>				
PH1-GWC-3	6/20/2018	23	50	
	12/19/2018	27	79	
	6/11/2019	30	88	
	12/10/2019	24.7	62	
	6/23/2020	23.6	52	

Forsyth County - Hightower Road Landfill - Phase I

Barium

12/16/2020	25.6	71
6/15/2021	24.3	59
12/15/2021	28.8	86
6/8/2022	25.5	69
12/15/2022	29.2	87
6/22/2023	27.6	81
12/14/2023	36.8	103

Rank Sum = 887
Rank Mean = 73.9167

PH1-GWC-4	6/20/2018	34	100
	12/20/2018	310	153
	6/13/2019	32	94
	6/23/2020	25.2	66
	12/18/2020	56.4	123
	6/17/2021	33	97
	12/16/2021	41.3	107
	6/7/2022	26.6	76
	6/20/2023	22.6	48

Rank Sum = 864
Rank Mean = 96

PH1-GWC-3A	6/28/2018	26	75
	12/19/2018	24	57
	6/11/2019	30	89
	12/10/2019	24.9	64
	6/23/2020	23.9	53
	12/16/2020	25.9	73
	6/15/2021	30.5	91
	12/15/2021	28.5	84
	6/8/2022	30.1	90
	12/15/2022	28.2	83
	6/22/2023	26.9	77
	12/14/2023	31.9	93

Rank Sum = 929
Rank Mean = 77.4167

Calculation Results:

Kruskal-Wallis H Statistic = 127.84
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 130.165
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
127.84 > 19.6752 indicating a significant group difference at 5% significance level
130.165 > 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 20.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	131.917	111.417	36.4455
PH1-GWB-1	123.583	103.083	36.4455
PH1-GWC-2	61.6667	41.1667	36.4455
GWC-1	145.75	125.25	36.4455
PH1-GWA-1	57.6667	37.1667	36.4455
PH1-GWA-1A	66.4167	45.9167	36.4455
PH1-GWB-2	24.3333	3.83333	36.4455

Forsyth County - Hightower Road Landfill - Phase I

Barium

PH1-GWC-1	106.083	85.5833	36.4455
PH1-GWC-3	73.9167	53.4167	36.4455
PH1-GWC-4	96	75.5	40.292
PH1-GWC-3A	77.4167	56.9167	36.4455

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 20.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	131.917	111.417	41.5488
PH1-GWB-1	123.583	103.083	41.5488
PH1-GWC-2	61.6667	41.1667	41.5488
GWC-1	145.75	125.25	41.5488
PH1-GWA-1	57.6667	37.1667	41.5488
PH1-GWA-1A	66.4167	45.9167	41.5488
PH1-GWB-2	24.3333	3.83333	41.5488
PH1-GWC-1	106.083	85.5833	41.5488
PH1-GWC-3	73.9167	53.4167	41.5488
PH1-GWC-4	96	75.5	45.9339
PH1-GWC-3A	77.4167	56.9167	41.5488

Kruskal-Wallis Non-Parametric Test

Parameter: 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	6/18/2018	ND<5	71.5
	12/17/2018	ND<5	71.5
	6/13/2019	ND<5	71.5
	12/12/2019	ND<5	71.5
	6/25/2020	ND<5	71.5
	12/18/2020	ND<5	71.5
	6/15/2021	ND<5	71.5
	12/15/2021	ND<5	71.5
	6/6/2022	ND<5	71.5
	12/12/2022	ND<5	71.5
	6/20/2023	ND<5	71.5
	12/14/2023	ND<5	71.5

Rank Sum = 858
 Rank Mean = 71.5

PH1-GWA-4	6/19/2018	ND<5	71.5
	12/19/2018	ND<5	71.5
	6/12/2019	ND<5	71.5
	12/10/2019	ND<5	71.5
	6/25/2020	ND<5	71.5
	12/16/2020	ND<5	71.5
	6/17/2021	ND<5	71.5
	12/15/2021	ND<5	71.5
	6/8/2022	ND<5	71.5
	12/15/2022	ND<5	71.5
	6/23/2023	ND<5	71.5
	12/13/2023	ND<5	71.5

Rank Sum = 858
 Rank Mean = 71.5

Background Rank Sum = 1716
 Background Rank Mean = 71.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/19/2018	ND<5	71.5
	12/19/2018	ND<5	71.5
	6/12/2019	ND<5	71.5
	12/10/2019	ND<5	71.5
	6/25/2020	ND<5	71.5
	12/16/2020	ND<5	71.5
	6/17/2021	ND<5	71.5
	12/15/2021	ND<5	71.5
	6/8/2022	ND<10	71.5
	12/15/2022	ND<5	71.5
	6/22/2023	ND<5	71.5

12/14/2023 ND<5 71.5
 Rank Sum = 858
 Rank Mean = 71.5

PH1-GWB-1	6/19/2018	ND<5	71.5
	12/18/2018	ND<5	71.5
	6/12/2019	ND<5	71.5
	12/11/2019	ND<5	71.5
	6/25/2020	ND<5	71.5
	12/18/2020	ND<5	71.5
	6/15/2021	ND<5	71.5
	12/14/2021	ND<5	71.5
	6/8/2022	ND<5	71.5
	12/13/2022	ND<5	71.5
	6/21/2023	ND<5	71.5
	12/13/2023	ND<5	71.5

Rank Sum = 858
 Rank Mean = 71.5

PH1-GWC-2	6/19/2018	12	145
	12/18/2018	ND<5	71.5
	6/10/2019	69	153
	12/10/2019	ND<5	71.5
	6/22/2020	27.2	150
	12/17/2020	ND<5	71.5
	6/17/2021	ND<5	71.5
	12/17/2021	ND<5	71.5
	6/8/2022	15.7	146
	12/14/2022	11.5	144
	6/22/2023	37	151
	12/14/2023	17.4	148

Rank Sum = 1394.5
 Rank Mean = 116.208

GWC-1	6/20/2018	ND<5	71.5
	12/18/2018	ND<5	71.5
	6/13/2019	ND<5	71.5
	12/11/2019	ND<5	71.5
	6/23/2020	ND<5	71.5
	12/17/2020	ND<5	71.5
	6/16/2021	ND<5	71.5
	12/16/2021	ND<5	71.5
	6/8/2022	ND<5	71.5
	12/13/2022	ND<5	71.5
	6/20/2023	ND<5	71.5
	12/12/2023	ND<5	71.5

Rank Sum = 858
 Rank Mean = 71.5

PH1-GWA-1	6/20/2018	ND<5	71.5
	12/19/2018	ND<5	71.5
	6/11/2019	ND<5	71.5
	12/10/2019	ND<5	71.5
	6/23/2020	ND<5	71.5
	12/16/2020	ND<5	71.5
	6/16/2021	ND<5	71.5
	12/14/2021	ND<5	71.5

Forsyth County - Hightower Road Landfill - Phase I

Chromium

6/9/2022	ND<5	71.5
12/15/2022	ND<5	71.5
6/21/2023	ND<5	71.5
12/14/2023	ND<5	71.5

Rank Sum = 858
Rank Mean = 71.5

PH1-GWA-1A	6/20/2018	ND<5	71.5
	12/19/2018	ND<5	71.5
	6/11/2019	11	143
	12/10/2019	ND<5	71.5
	6/22/2020	ND<5	71.5
	12/18/2020	ND<5	71.5
	6/16/2021	ND<5	71.5
	12/14/2021	ND<5	71.5
	6/8/2022	19.9	149
	12/15/2022	17.2	147
	6/22/2023	ND<5	71.5
	12/12/2023	ND<5	71.5

Rank Sum = 1082.5
Rank Mean = 90.2083

PH1-GWB-2	6/20/2018	ND<5	71.5
	12/18/2018	ND<5	71.5
	6/13/2019	ND<5	71.5
	12/13/2019	ND<5	71.5
	6/25/2020	ND<5	71.5
	12/18/2020	ND<5	71.5
	6/17/2021	ND<5	71.5
	12/14/2021	ND<5	71.5
	6/10/2022	ND<5	71.5
	12/13/2022	ND<5	71.5
	6/21/2023	ND<5	71.5
	12/13/2023	ND<5	71.5

Rank Sum = 858
Rank Mean = 71.5

PH1-GWC-1	6/20/2018	ND<5	71.5
	12/20/2018	ND<5	71.5
	6/13/2019	ND<5	71.5
	12/12/2019	ND<5	71.5
	6/23/2020	ND<5	71.5
	12/18/2020	ND<5	71.5
	6/17/2021	ND<5	71.5
	12/16/2021	ND<5	71.5
	6/10/2022	ND<5	71.5
	12/15/2022	ND<5	71.5
	6/20/2023	ND<5	71.5
	12/14/2023	ND<5	71.5

Rank Sum = 858
Rank Mean = 71.5

PH1-GWC-3	6/20/2018	ND<5	71.5
	12/19/2018	ND<5	71.5
	6/11/2019	ND<5	71.5
	12/10/2019	ND<5	71.5
	6/23/2020	ND<5	71.5

Forsyth County - Hightower Road Landfill - Phase I

Chromium

12/16/2020	ND<5	71.5
6/15/2021	ND<5	71.5
12/15/2021	ND<5	71.5
6/8/2022	ND<10	71.5
12/15/2022	ND<5	71.5
6/22/2023	ND<5	71.5
12/14/2023	ND<5	71.5

Rank Sum = 858
Rank Mean = 71.5

PH1-GWC-4	6/20/2018	ND<5	71.5
	12/20/2018	49	152
	6/13/2019	ND<5	71.5
	6/23/2020	ND<5	71.5
	12/18/2020	ND<5	71.5
	6/17/2021	ND<5	71.5
	12/16/2021	ND<5	71.5
	6/7/2022	ND<5	71.5
	6/20/2023	ND<5	71.5

Rank Sum = 724
Rank Mean = 80.4444

PH1-GWC-3A	6/28/2018	ND<5	71.5
	12/19/2018	ND<5	71.5
	6/11/2019	ND<5	71.5
	12/10/2019	ND<5	71.5
	6/23/2020	ND<5	71.5
	12/16/2020	ND<5	71.5
	6/15/2021	ND<5	71.5
	12/15/2021	ND<5	71.5
	6/8/2022	ND<10	71.5
	12/15/2022	ND<5	71.5
	6/22/2023	ND<5	71.5
	12/14/2023	ND<5	71.5

Rank Sum = 858
Rank Mean = 71.5

Calculation Results:

Kruskal-Wallis H Statistic = 12.3646

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 61.6513

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

12.3646 < 19.6752 indicating no significant group difference at 5% significance level

61.6513 > 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 71.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	71.5	0	36.4455
PH1-GWB-1	71.5	0	36.4455
PH1-GWC-2	116.208	44.7083	36.4455
GWC-1	71.5	0	36.4455
PH1-GWA-1	71.5	0	36.4455
PH1-GWA-1A	90.2083	18.7083	36.4455
PH1-GWB-2	71.5	0	36.4455

Forsyth County - Hightower Road Landfill - Phase I

Chromium

PH1-GWC-1	71.5	0	36.4455
PH1-GWC-3	71.5	0	36.4455
PH1-GWC-4	80.4444	8.94444	40.292
PH1-GWC-3A	71.5	0	36.4455

**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 71.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	71.5	0	41.5488
PH1-GWB-1	71.5	0	41.5488
PH1-GWC-2	116.208	44.7083	41.5488
GWC-1	71.5	0	41.5488
PH1-GWA-1	71.5	0	41.5488
PH1-GWA-1A	90.2083	18.7083	41.5488
PH1-GWB-2	71.5	0	41.5488
PH1-GWC-1	71.5	0	41.5488
PH1-GWC-3	71.5	0	41.5488
PH1-GWC-4	80.4444	8.94444	45.9339
PH1-GWC-3A	71.5	0	41.5488

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

Kruskal-Wallis Non-Parametric Test

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/18/2018	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
	6/15/2021	ND<1	47.5
	12/15/2021	ND<1	47.5
	6/6/2022	ND<1	47.5
	12/12/2022	ND<1	47.5
	6/20/2023	ND<1	47.5
	12/14/2023	ND<1	47.5

Rank Sum = 570

Rank Mean = 47.5

PH1-GWA-4	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
	6/16/2021	ND<1	47.5
	12/14/2021	ND<1	47.5
	6/7/2022	ND<1	47.5
	12/15/2022	ND<1	47.5
	6/23/2023	ND<1	47.5
	12/12/2023	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	6/18/2018	46	150
	12/18/2018	55	152
	6/11/2019	26	137
	12/9/2019	120	153
	6/24/2020	42	149
	12/15/2020	52	151
	6/16/2021	34	144
	12/14/2021	35	145
	6/7/2022	26	138
	12/14/2022	35	146
	6/21/2023	16	128

Forsyth County - Hightower Road Landfill - Phase I				cis-1,2-Dichloroethene			
	12/13/2023	39	148				
Rank Sum = 1741				Rank Mean = 145.083			
PH1-GWB-1	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				
	6/14/2021	ND<1	47.5				
	12/13/2021	ND<1	47.5				
	6/7/2022	ND<1	47.5				
	12/12/2022	ND<1	47.5				
	6/20/2023	ND<1	47.5				
	12/12/2023	ND<1	47.5				
Rank Sum = 570				Rank Mean = 47.5			
GWC-1	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				
	6/15/2021	ND<1	47.5				
	12/15/2021	ND<1	47.5				
	6/7/2022	ND<1	47.5				
	12/12/2022	ND<1	47.5				
	6/19/2023	ND<1	47.5				
	12/11/2023	ND<1	47.5				
Rank Sum = 570				Rank Mean = 47.5			
PH1-GWA-1	6/19/2018	3.1	100				
	12/18/2018	2.4	97				
	6/10/2019	5.2	108				
	12/9/2019	3.7	102				
	6/22/2020	4	104				
	12/15/2020	4.3	106				
	6/15/2021	5.8	111				
	12/13/2021	4.1	105				
	6/8/2022	2.3	96				
	12/14/2022	2.5	98				
	6/20/2023	3.7	103				
	12/13/2023	ND<1	47.5				
Rank Sum = 1177.5				Rank Mean = 98.125			
PH1-GWA-1A	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				
	6/15/2021	ND<1	47.5				
	12/13/2021	ND<1	47.5				

Forsyth County - Hightower Road Landfill - Phase I				cis-1,2-Dichloroethene			
	6/8/2022	ND<1	47.5				
	12/15/2022	ND<1	47.5				
	6/22/2023	ND<1	47.5				
	12/11/2023	ND<1	47.5				
Rank Sum = 570				Rank Mean = 47.5			
PH1-GWB-2	6/19/2018	ND<1	47.5				
	12/17/2018	2.6	99				
	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				
	6/16/2021	ND<1	47.5				
	12/13/2021	ND<1	47.5				
	6/9/2022	ND<1	47.5				
	12/12/2022	ND<1	47.5				
	6/20/2023	ND<1	47.5				
	12/12/2023	ND<1	47.5				
Rank Sum = 621.5				Rank Mean = 51.7917			
PH1-GWC-1	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				
	6/16/2021	ND<1	47.5				
	12/15/2021	ND<1	47.5				
	6/9/2022	ND<1	47.5				
	12/14/2022	ND<1	47.5				
	6/19/2023	ND<1	47.5				
	12/13/2023	ND<1	47.5				
Rank Sum = 570				Rank Mean = 47.5			
PH1-GWC-2	6/19/2018	2.2	95				
	12/18/2018	3.3	101				
	6/10/2019	5.1	107				
	12/10/2019	5.7	110				
	6/22/2020	6	112				
	12/17/2020	7.8	117				
	6/17/2021	7	114				
	12/14/2021	6.7	113				
	6/8/2022	5.6	109				
	12/14/2022	7.7	116				
	6/22/2023	7	115				
	12/14/2023	8.2	118				
Rank Sum = 1327				Rank Mean = 110.583			
PH1-GWC-3	6/19/2018	15	125				
	12/18/2018	15	126				
	6/10/2019	19	131				
	12/9/2019	27	141				
	6/22/2020	20	134				

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

12/15/2020	26	139
6/14/2021	28	142
12/14/2021	25	136
6/7/2022	26	140
12/15/2022	36	147
6/22/2023	28	143
12/13/2023	ND<1	47.5

Rank Sum = 1551.5
Rank Mean = 129.292

PH1-GWC-3A	6/19/2018	12	121
	12/18/2018	9.2	119
	6/10/2019	11	120
	12/9/2019	16	129
	6/26/2020	14	123
	12/15/2020	16	130
	6/14/2021	19	132
	12/14/2021	14	124
	6/7/2022	19	133
	12/15/2022	23	135
	6/22/2023	13	122
	12/13/2023	15	127

Rank Sum = 1515
Rank Mean = 126.25

PH1-GWC-4	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
	6/16/2021	ND<1	47.5
	12/15/2021	ND<1	47.5
	6/6/2022	ND<1	47.5
	6/19/2023	ND<1	47.5

Rank Sum = 427.5
Rank Mean = 47.5

Calculation Results:

Kruskal-Wallis H Statistic = 109.269

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 142.256

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

109.269 > 19.6752 indicating a significant group difference at 5% significance level

142.256 > 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	145.083	97.5833	36.4455
PH1-GWB-1	47.5	0	36.4455
GWC-1	47.5	0	36.4455
PH1-GWA-1	98.125	50.625	36.4455
PH1-GWA-1A	47.5	0	36.4455
PH1-GWB-2	51.7917	4.29167	36.4455
PH1-GWC-1	47.5	0	36.4455

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cis-1,2-Dichloroethene

PH1-GWC-2	110.583	63.0833	36.4455
PH1-GWC-3	129.292	81.7917	36.4455
PH1-GWC-3A	126.25	78.75	36.4455
PH1-GWC-4	47.5	0	40.292

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	145.083	97.5833	41.5488
PH1-GWB-1	47.5	0	41.5488
GWC-1	47.5	0	41.5488
PH1-GWA-1	98.125	50.625	41.5488
PH1-GWA-1A	47.5	0	41.5488
PH1-GWB-2	51.7917	4.29167	41.5488
PH1-GWC-1	47.5	0	41.5488
PH1-GWC-2	110.583	63.0833	41.5488
PH1-GWC-3	129.292	81.7917	41.5488
PH1-GWC-3A	126.25	78.75	41.5488
PH1-GWC-4	47.5	0	45.9339

Kruskal-Wallis Non-Parametric Test

Parameter: 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	6/18/2018	ND<20	71
	12/17/2018	ND<20	71
	6/13/2019	ND<20	71
	12/12/2019	ND<20	71
	6/25/2020	ND<20	71
	12/18/2020	ND<20	71
	6/15/2021	ND<20	71
	12/15/2021	ND<20	71
	6/6/2022	ND<20	71
	12/12/2022	ND<20	71
	6/20/2023	ND<20	71
	12/14/2023	ND<20	71

Rank Sum = 852
 Rank Mean = 71

PH1-GWA-4	6/19/2018	ND<20	71
	12/19/2018	ND<20	71
	6/12/2019	ND<20	71
	12/10/2019	ND<20	71
	6/25/2020	ND<20	71
	12/16/2020	ND<20	71
	6/17/2021	ND<20	71
	12/15/2021	ND<20	71
	6/8/2022	ND<20	71
	12/15/2022	ND<20	71
	6/23/2023	ND<20	71
	12/13/2023	ND<20	71

Rank Sum = 852
 Rank Mean = 71

Background Rank Sum = 1704
 Background Rank Mean = 71

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/19/2018	ND<20	71
	12/19/2018	ND<20	71
	6/12/2019	ND<20	71
	12/10/2019	ND<20	71
	6/25/2020	ND<20	71
	12/16/2020	ND<20	71
	6/17/2021	ND<20	71
	12/15/2021	ND<20	71
	6/8/2022	ND<25	71
	12/15/2022	ND<20	71
	6/22/2023	ND<20	71

12/14/2023 ND<20 71
 Rank Sum = 852
 Rank Mean = 71

PH1-GWB-1	6/19/2018	ND<20	71
	12/18/2018	ND<20	71
	6/12/2019	ND<20	71
	12/11/2019	ND<20	71
	6/25/2020	ND<20	71
	12/18/2020	ND<20	71
	6/15/2021	ND<20	71
	12/14/2021	ND<20	71
	6/8/2022	ND<20	71
	12/13/2022	ND<20	71
	6/21/2023	ND<20	71
	12/13/2023	ND<20	71

Rank Sum = 852
 Rank Mean = 71

PH1-GWC-2	6/19/2018	ND<20	71
	12/18/2018	ND<20	71
	6/10/2019	ND<20	71
	12/10/2019	ND<20	71
	6/22/2020	ND<20	71
	12/17/2020	ND<20	71
	6/17/2021	ND<20	71
	12/17/2021	ND<20	71
	6/8/2022	ND<20	71
	12/14/2022	ND<20	71
	6/22/2023	ND<20	71
	12/14/2023	ND<20	71

Rank Sum = 852
 Rank Mean = 71

GWC-1	6/20/2018	ND<20	71
	12/18/2018	ND<20	71
	6/13/2019	ND<20	71
	12/11/2019	ND<20	71
	6/23/2020	ND<20	71
	12/17/2020	ND<20	71
	6/16/2021	ND<20	71
	12/16/2021	ND<20	71
	6/8/2022	ND<20	71
	12/13/2022	ND<20	71
	6/20/2023	ND<20	71
	12/12/2023	ND<20	71

Rank Sum = 852
 Rank Mean = 71

PH1-GWA-1	6/20/2018	75	144
	12/19/2018	82	146
	6/11/2019	91	149
	12/10/2019	90.1	148
	6/23/2020	76.6	145
	12/16/2020	95.6	151
	6/16/2021	83.5	147
	12/14/2021	111	153

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Cobalt

6/9/2022	74.7	143
12/15/2022	94.7	150
6/21/2023	67.2	142
12/14/2023	96.6	152

Rank Sum = 1770
Rank Mean = 147.5

PH1-GWA-1A	6/20/2018	ND<20	71
	12/19/2018	ND<20	71
	6/11/2019	ND<20	71
	12/10/2019	ND<20	71
	6/22/2020	ND<20	71
	12/18/2020	ND<20	71
	6/16/2021	ND<20	71
	12/14/2021	ND<20	71
	6/8/2022	ND<20	71
	12/15/2022	ND<20	71
	6/22/2023	ND<20	71
	12/12/2023	ND<20	71

Rank Sum = 852
Rank Mean = 71

PH1-GWB-2	6/20/2018	ND<20	71
	12/18/2018	ND<20	71
	6/13/2019	ND<20	71
	12/13/2019	ND<20	71
	6/25/2020	ND<20	71
	12/18/2020	ND<20	71
	6/17/2021	ND<20	71
	12/14/2021	ND<20	71
	6/10/2022	ND<20	71
	12/13/2022	ND<20	71
	6/21/2023	ND<20	71
	12/13/2023	ND<20	71

Rank Sum = 852
Rank Mean = 71

PH1-GWC-1	6/20/2018	ND<20	71
	12/20/2018	ND<20	71
	6/13/2019	ND<20	71
	12/12/2019	ND<20	71
	6/23/2020	ND<20	71
	12/18/2020	ND<20	71
	6/17/2021	ND<20	71
	12/16/2021	ND<20	71
	6/10/2022	ND<20	71
	12/15/2022	ND<20	71
	6/20/2023	ND<20	71
	12/14/2023	ND<20	71

Rank Sum = 852
Rank Mean = 71

PH1-GWC-3	6/20/2018	ND<20	71
	12/19/2018	ND<20	71
	6/11/2019	ND<20	71
	12/10/2019	ND<20	71
	6/23/2020	ND<20	71

Forsyth County - Hightower Road Landfill - Phase I

Cobalt

12/16/2020	ND<20	71
6/15/2021	ND<20	71
12/15/2021	ND<20	71
6/8/2022	ND<25	71
12/15/2022	ND<20	71
6/22/2023	ND<20	71
12/14/2023	ND<20	71

Rank Sum = 852
Rank Mean = 71

PH1-GWC-4	6/20/2018	ND<20	71
	12/20/2018	ND<20	71
	6/13/2019	ND<20	71
	6/23/2020	ND<20	71
	12/18/2020	ND<20	71
	6/17/2021	ND<20	71
	12/16/2021	ND<20	71
	6/7/2022	ND<20	71
	6/20/2023	ND<20	71

Rank Sum = 639
Rank Mean = 71

PH1-GWC-3A	6/28/2018	ND<20	71
	12/19/2018	ND<20	71
	6/11/2019	ND<20	71
	12/10/2019	ND<20	71
	6/23/2020	ND<20	71
	12/16/2020	ND<20	71
	6/15/2021	ND<20	71
	12/15/2021	ND<20	71
	6/8/2022	ND<25	71
	12/15/2022	ND<20	71
	6/22/2023	ND<20	71
	12/14/2023	ND<20	71

Rank Sum = 852
Rank Mean = 71

Calculation Results:

Kruskal-Wallis H Statistic = 32.961

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 151.665

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

32.961 > 19.6752 indicating a significant group difference at 5% significance level

151.665 > 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 71

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	71	0	36.4455
PH1-GWB-1	71	0	36.4455
PH1-GWC-2	71	0	36.4455
GWC-1	71	0	36.4455
PH1-GWA-1	147.5	76.5	36.4455
PH1-GWA-1A	71	0	36.4455
PH1-GWB-2	71	0	36.4455

PH1-GWC-1	71	0	36.4455
PH1-GWC-3	71	0	36.4455
PH1-GWC-4	71	0	40.292
PH1-GWC-3A	71	0	36.4455

**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 71

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	71	0	41.5488
PH1-GWB-1	71	0	41.5488
PH1-GWC-2	71	0	41.5488
GWC-1	71	0	41.5488
PH1-GWA-1	147.5	76.5	41.5488
PH1-GWA-1A	71	0	41.5488
PH1-GWB-2	71	0	41.5488
PH1-GWC-1	71	0	41.5488
PH1-GWC-3	71	0	41.5488
PH1-GWC-4	71	0	45.9339
PH1-GWC-3A	71	0	41.5488

Kruskal-Wallis Non-Parametric Test

Parameter: Nickel

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	6/18/2018	ND<10	75.5
	12/17/2018	ND<10	75.5
	6/13/2019	ND<10	75.5
	12/12/2019	ND<10	75.5
	6/25/2020	ND<10	75.5
	12/18/2020	ND<10	75.5
	6/15/2021	ND<10	75.5
	12/15/2021	ND<10	75.5
	6/6/2022	ND<10	75.5
	12/12/2022	ND<10	75.5
	6/20/2023	ND<10	75.5
	12/14/2023	ND<10	75.5

Rank Sum = 906

Rank Mean = 75.5

PH1-GWA-4	6/19/2018	ND<10	75.5
	12/19/2018	ND<10	75.5
	6/12/2019	ND<10	75.5
	12/10/2019	ND<10	75.5
	6/25/2020	ND<10	75.5
	12/16/2020	ND<10	75.5
	6/17/2021	ND<10	75.5
	12/15/2021	ND<10	75.5
	6/8/2022	ND<10	75.5
	12/15/2022	ND<10	75.5
	6/23/2023	ND<10	75.5
	12/13/2023	ND<10	75.5

Rank Sum = 906

Rank Mean = 75.5

Background Rank Sum = 1812

Background Rank Mean = 75.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/19/2018	ND<10	75.5
	12/19/2018	ND<10	75.5
	6/12/2019	ND<10	75.5
	12/10/2019	ND<10	75.5
	6/25/2020	ND<10	75.5
	12/16/2020	ND<10	75.5
	6/17/2021	ND<10	75.5
	12/15/2021	ND<10	75.5
	6/8/2022	ND<20	75.5
	12/15/2022	ND<10	75.5
	6/22/2023	ND<10	75.5

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Nickel

12/14/2023 ND<10 75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWB-1 6/19/2018 ND<10 75.5
12/18/2018 ND<10 75.5
6/12/2019 ND<10 75.5
12/11/2019 ND<10 75.5
6/25/2020 ND<10 75.5
12/18/2020 ND<10 75.5
6/15/2021 ND<10 75.5
12/14/2021 ND<10 75.5
6/8/2022 ND<10 75.5
12/13/2022 ND<10 75.5
6/21/2023 ND<10 75.5
12/13/2023 ND<10 75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWC-2 6/19/2018 ND<10 75.5
12/18/2018 ND<10 75.5
6/10/2019 51 153
12/10/2019 ND<10 75.5
6/22/2020 ND<10 75.5
12/17/2020 ND<10 75.5
6/17/2021 ND<10 75.5
12/17/2021 ND<10 75.5
6/8/2022 ND<10 75.5
12/14/2022 ND<10 75.5
6/22/2023 25.3 151
12/14/2023 ND<10 75.5

Rank Sum = 1059
Rank Mean = 88.25

GWC-1 6/20/2018 ND<10 75.5
12/18/2018 ND<10 75.5
6/13/2019 ND<10 75.5
12/11/2019 ND<10 75.5
6/23/2020 ND<10 75.5
12/17/2020 ND<10 75.5
6/16/2021 ND<10 75.5
12/16/2021 ND<10 75.5
6/8/2022 ND<10 75.5
12/13/2022 ND<10 75.5
6/20/2023 ND<10 75.5
12/12/2023 ND<10 75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWA-1 6/20/2018 ND<10 75.5
12/19/2018 ND<10 75.5
6/11/2019 ND<10 75.5
12/10/2019 ND<10 75.5
6/23/2020 ND<10 75.5
12/16/2020 ND<10 75.5
6/16/2021 ND<10 75.5
12/14/2021 ND<10 75.5

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6/9/2022 ND<10 75.5

12/15/2022 ND<10 75.5
6/21/2023 ND<10 75.5
12/14/2023 ND<10 75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWA-1A 6/20/2018 ND<10 75.5
12/19/2018 ND<10 75.5
6/11/2019 ND<10 75.5
12/10/2019 ND<10 75.5
6/22/2020 ND<10 75.5
12/18/2020 ND<10 75.5
6/16/2021 ND<10 75.5
12/14/2021 ND<10 75.5
6/8/2022 ND<10 75.5
12/15/2022 ND<10 75.5
6/22/2023 ND<10 75.5
12/12/2023 ND<10 75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWB-2 6/20/2018 ND<10 75.5
12/18/2018 ND<10 75.5
6/13/2019 ND<10 75.5
12/13/2019 ND<10 75.5
6/25/2020 ND<10 75.5
12/18/2020 ND<10 75.5
6/17/2021 ND<10 75.5
12/14/2021 ND<10 75.5
6/10/2022 ND<10 75.5
12/13/2022 ND<10 75.5
6/21/2023 ND<10 75.5
12/13/2023 ND<10 75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWC-1 6/20/2018 ND<10 75.5
12/20/2018 ND<10 75.5
6/13/2019 ND<10 75.5
12/12/2019 ND<10 75.5
6/23/2020 ND<10 75.5
12/18/2020 ND<10 75.5
6/17/2021 ND<10 75.5
12/16/2021 ND<10 75.5
6/10/2022 ND<10 75.5
12/15/2022 ND<10 75.5
6/20/2023 ND<10 75.5
12/14/2023 ND<10 75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWC-3 6/20/2018 ND<10 75.5
12/19/2018 ND<10 75.5
6/11/2019 ND<10 75.5
12/10/2019 ND<10 75.5
6/23/2020 ND<10 75.5

Forsyth County - Hightower Road Landfill - Phase I

Nickel

12/16/2020	ND<10	75.5
6/15/2021	ND<10	75.5
12/15/2021	ND<10	75.5
6/8/2022	ND<20	75.5
12/15/2022	ND<10	75.5
6/22/2023	ND<10	75.5
12/14/2023	ND<10	75.5

Rank Sum = 906
Rank Mean = 75.5

PH1-GWC-4	6/20/2018	ND<10	75.5
	12/20/2018	31	152
	6/13/2019	ND<10	75.5
	6/23/2020	ND<10	75.5
	12/18/2020	ND<10	75.5
	6/17/2021	ND<10	75.5
	12/16/2021	ND<10	75.5
	6/7/2022	ND<10	75.5
	6/20/2023	ND<10	75.5

Rank Sum = 756
Rank Mean = 84

PH1-GWC-3A	6/28/2018	ND<10	75.5
	12/19/2018	ND<10	75.5
	6/11/2019	ND<10	75.5
	12/10/2019	ND<10	75.5
	6/23/2020	ND<10	75.5
	12/16/2020	ND<10	75.5
	6/15/2021	ND<10	75.5
	12/15/2021	ND<10	75.5
	6/8/2022	ND<20	75.5
	12/15/2022	ND<10	75.5
	6/22/2023	ND<10	75.5
	12/14/2023	ND<10	75.5

Rank Sum = 906
Rank Mean = 75.5

Calculation Results:

Kruskal-Wallis H Statistic = 1.14935
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 19.9266
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
1.14935 < 19.6752 indicating no significant group difference at 5% significance level
19.9266 > 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 75.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	75.5	0	36.4455
PH1-GWB-1	75.5	0	36.4455
PH1-GWC-2	88.25	12.75	36.4455
GWC-1	75.5	0	36.4455
PH1-GWA-1	75.5	0	36.4455
PH1-GWA-1A	75.5	0	36.4455
PH1-GWB-2	75.5	0	36.4455

Forsyth County - Hightower Road Landfill - Phase I

Nickel

PH1-GWC-1	75.5	0	36.4455
PH1-GWC-3	75.5	0	36.4455
PH1-GWC-4	84	8.5	40.292
PH1-GWC-3A	75.5	0	36.4455

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 75.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	75.5	0	41.5488
PH1-GWB-1	75.5	0	41.5488
PH1-GWC-2	88.25	12.75	41.5488
GWC-1	75.5	0	41.5488
PH1-GWA-1	75.5	0	41.5488
PH1-GWA-1A	75.5	0	41.5488
PH1-GWB-2	75.5	0	41.5488
PH1-GWC-1	75.5	0	41.5488
PH1-GWC-3	75.5	0	41.5488
PH1-GWC-4	84	8.5	45.9339
PH1-GWC-3A	75.5	0	41.5488

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	6/18/2018	ND<1	59
	12/17/2018	ND<1	59
	6/13/2019	ND<1	59
	12/12/2019	ND<1	59
	6/25/2020	ND<1	59
	12/18/2020	ND<1	59
	6/15/2021	ND<1	59
	12/15/2021	ND<1	59
	6/6/2022	ND<1	59
	12/12/2022	ND<1	59
	6/20/2023	ND<1	59
	12/14/2023	ND<1	59

Rank Sum = 708

Rank Mean = 59

PH1-GWA-4	6/18/2018	ND<1	59
	12/18/2018	ND<1	59
	6/11/2019	ND<1	59
	12/9/2019	ND<1	59
	6/24/2020	ND<1	59
	12/15/2020	ND<1	59
	6/16/2021	ND<1	59
	12/14/2021	ND<1	59
	6/7/2022	ND<1	59
	12/15/2022	ND<1	59
	6/23/2023	ND<1	59
	12/12/2023	ND<1	59

Rank Sum = 708

Rank Mean = 59

Background Rank Sum = 1416

Background Rank Mean = 59

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/18/2018	ND<1	59
	12/18/2018	ND<1	59
	6/11/2019	ND<1	59
	12/9/2019	2.4	120
	6/24/2020	ND<1	59
	12/15/2020	ND<1	59
	6/16/2021	ND<1	59
	12/14/2021	ND<1	59
	6/7/2022	ND<1	59
	12/14/2022	ND<1	59
	6/21/2023	ND<1	59

12/13/2023 ND<1 59
 Rank Sum = 769
 Rank Mean = 64.0833

PH1-GWB-1	6/18/2018	ND<1	59
	12/17/2018	ND<1	59
	6/11/2019	ND<1	59
	12/10/2019	ND<1	59
	6/24/2020	ND<1	59
	12/17/2020	ND<1	59
	6/14/2021	ND<1	59
	12/13/2021	ND<1	59
	6/7/2022	ND<1	59
	12/12/2022	ND<1	59
	6/20/2023	ND<1	59
	12/12/2023	ND<1	59

Rank Sum = 708

Rank Mean = 59

GWC-1	6/19/2018	ND<1	59
	12/17/2018	ND<1	59
	6/13/2019	ND<1	59
	12/10/2019	ND<1	59
	6/22/2020	ND<1	59
	12/16/2020	ND<1	59
	6/15/2021	ND<1	59
	12/15/2021	ND<1	59
	6/7/2022	ND<1	59
	12/12/2022	ND<1	59
	6/19/2023	ND<1	59
	12/11/2023	ND<1	59

Rank Sum = 708

Rank Mean = 59

PH1-GWA-1	6/19/2018	2.1	119
	12/18/2018	ND<1	59
	6/10/2019	ND<1	59
	12/9/2019	ND<1	59
	6/22/2020	ND<1	59
	12/15/2020	ND<1	59
	6/15/2021	ND<1	59
	12/13/2021	ND<1	59
	6/8/2022	ND<1	59
	12/14/2022	ND<1	59
	6/20/2023	ND<1	59
	12/13/2023	ND<1	59

Rank Sum = 768

Rank Mean = 64

PH1-GWA-1A	6/19/2018	ND<1	59
	12/18/2018	ND<1	59
	6/10/2019	ND<1	59
	12/10/2019	ND<1	59
	6/22/2020	ND<1	59
	12/18/2020	ND<1	59
	6/15/2021	ND<1	59
	12/13/2021	ND<1	59

Forsyth County - Hightower Road Landfill - Phase I

Tetrachloroethene

6/8/2022	ND<1	59
12/15/2022	ND<1	59
6/22/2023	ND<1	59
12/11/2023	ND<1	59

Rank Sum = 708
Rank Mean = 59

PH1-GWB-2	6/19/2018	ND<1	59
	12/17/2018	ND<1	59
	6/12/2019	ND<1	59
	12/12/2019	ND<1	59
	6/24/2020	ND<1	59
	12/17/2020	ND<1	59
	6/16/2021	ND<1	59
	12/13/2021	ND<1	59
	6/9/2022	ND<1	59
	12/12/2022	ND<1	59
	6/20/2023	ND<1	59
	12/12/2023	ND<1	59

Rank Sum = 708
Rank Mean = 59

PH1-GWC-1	6/19/2018	ND<1	59
	12/19/2018	ND<1	59
	6/13/2019	ND<1	59
	12/11/2019	ND<1	59
	6/22/2020	ND<1	59
	12/17/2020	ND<1	59
	6/16/2021	ND<1	59
	12/15/2021	ND<1	59
	6/9/2022	ND<1	59
	12/14/2022	ND<1	59
	6/19/2023	ND<1	59
	12/13/2023	ND<1	59

Rank Sum = 708
Rank Mean = 59

PH1-GWC-2	6/19/2018	ND<1	59
	12/18/2018	5.1	130
	6/10/2019	4.2	127
	12/10/2019	6.3	133
	6/22/2020	4.6	129
	12/17/2020	5.3	131
	6/17/2021	3.7	126
	12/14/2021	2.9	122
	6/8/2022	3.4	125
	12/14/2022	4.4	128
	6/22/2023	2.9	123
	12/14/2023	3.2	124

Rank Sum = 1457
Rank Mean = 121.417

PH1-GWC-3	6/19/2018	11	150
	12/18/2018	10	149
	6/10/2019	11	151
	12/9/2019	13	153
	6/22/2020	9	145

Forsyth County - Hightower Road Landfill - Phase I

Tetrachloroethene

12/15/2020	9.1	146
6/14/2021	9.3	147
12/14/2021	8.8	143
6/7/2022	8.3	139
12/15/2022	9.5	148
6/22/2023	8.3	140
12/13/2023	6.3	134

Rank Sum = 1745
Rank Mean = 145.417

PH1-GWC-3A	6/19/2018	11	152
	12/18/2018	8.7	142
	6/10/2019	8.8	144
	12/9/2019	7.4	137
	6/26/2020	ND<1	59
	12/15/2020	5.7	132
	6/14/2021	8.1	138
	12/14/2021	7.2	136
	6/7/2022	8.6	141
	12/15/2022	6.5	135
	6/22/2023	2	118
	12/13/2023	2.5	121

Rank Sum = 1555
Rank Mean = 129.583

PH1-GWC-4	6/19/2018	ND<1	59
	12/19/2018	ND<1	59
	6/13/2019	ND<1	59
	6/22/2020	ND<1	59
	12/17/2020	ND<1	59
	6/16/2021	ND<1	59
	12/15/2021	ND<1	59
	6/6/2022	ND<1	59
	6/19/2023	ND<1	59

Rank Sum = 531
Rank Mean = 59

Calculation Results:

Kruskal-Wallis H Statistic = 74.9612

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 135.595

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

74.9612 > 19.6752 indicating a significant group difference at 5% significance level

135.595 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634

Mean background rank is 59

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	64.0833	5.08333	36.4455
PH1-GWB-1	59	0	36.4455
GWC-1	59	0	36.4455
PH1-GWA-1	64	5	36.4455
PH1-GWA-1A	59	0	36.4455
PH1-GWB-2	59	0	36.4455
PH1-GWC-1	59	0	36.4455

PH1-GWC-2	121.417	62.4167	36.4455
PH1-GWC-3	145.417	86.4167	36.4455
PH1-GWC-3A	129.583	70.5833	36.4455
PH1-GWC-4	59	0	40.292

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 59

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	64.0833	5.08333	41.5488
PH1-GWB-1	59	0	41.5488
GWC-1	59	0	41.5488
PH1-GWA-1	64	5	41.5488
PH1-GWA-1A	59	0	41.5488
PH1-GWB-2	59	0	41.5488
PH1-GWC-1	59	0	41.5488
PH1-GWC-2	121.417	62.4167	41.5488
PH1-GWC-3	145.417	86.4167	41.5488
PH1-GWC-3A	129.583	70.5833	41.5488
PH1-GWC-4	59	0	45.9339

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	6/18/2018	ND<1	55
	12/17/2018	ND<1	55
	6/13/2019	ND<1	55
	12/12/2019	ND<1	55
	6/25/2020	ND<1	55
	12/18/2020	ND<1	55
	6/15/2021	ND<1	55
	12/15/2021	ND<1	55
	6/6/2022	ND<1	55
	12/12/2022	ND<1	55
	6/20/2023	ND<1	55
	12/14/2023	ND<1	55

Rank Sum = 660

Rank Mean = 55

PH1-GWA-4	6/18/2018	ND<1	55
	12/18/2018	ND<1	55
	6/11/2019	ND<1	55
	12/9/2019	ND<1	55
	6/24/2020	ND<1	55
	12/15/2020	ND<1	55
	6/16/2021	ND<1	55
	12/14/2021	ND<1	55
	6/7/2022	ND<1	55
	12/15/2022	ND<1	55
	6/23/2023	ND<1	55
	12/12/2023	ND<1	55

Rank Sum = 660

Rank Mean = 55

Background Rank Sum = 1320

Background Rank Mean = 55

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/18/2018	4.2	130
	12/18/2018	4	129
	6/11/2019	2.1	113
	12/9/2019	7.3	143
	6/24/2020	2.4	117
	12/15/2020	2.5	119
	6/16/2021	2.4	118
	12/14/2021	2	110
	6/7/2022	ND<1	55
	12/14/2022	2.2	116
	6/21/2023	ND<1	55

Forsyth County - Hightower Road Landfill - Phase I				Trichloroethene
	12/13/2023	2.8	125	
Rank Sum = 1330				
Rank Mean = 110.833				
<hr/>				
PH1-GWB-1	6/18/2018	ND<1	55	
	12/17/2018	ND<1	55	
	6/11/2019	ND<1	55	
	12/10/2019	ND<1	55	
	6/24/2020	ND<1	55	
	12/17/2020	ND<1	55	
	6/14/2021	ND<1	55	
	12/13/2021	ND<1	55	
	6/7/2022	ND<1	55	
	12/12/2022	ND<1	55	
	6/20/2023	ND<1	55	
	12/12/2023	ND<1	55	
Rank Sum = 660				
Rank Mean = 55				
<hr/>				
GWC-1	6/19/2018	ND<1	55	
	12/17/2018	ND<1	55	
	6/13/2019	ND<1	55	
	12/10/2019	ND<1	55	
	6/22/2020	ND<1	55	
	12/16/2020	ND<1	55	
	6/15/2021	ND<1	55	
	12/15/2021	ND<1	55	
	6/7/2022	ND<1	55	
	12/12/2022	ND<1	55	
	6/19/2023	ND<1	55	
	12/11/2023	ND<1	55	
Rank Sum = 660				
Rank Mean = 55				
<hr/>				
PH1-GWA-1	6/19/2018	ND<1	55	
	12/18/2018	ND<1	55	
	6/10/2019	ND<1	55	
	12/9/2019	3.1	128	
	6/22/2020	ND<1	55	
	12/15/2020	ND<1	55	
	6/15/2021	ND<1	55	
	12/13/2021	ND<1	55	
	6/8/2022	ND<1	55	
	12/14/2022	ND<1	55	
	6/20/2023	ND<1	55	
	12/13/2023	ND<1	55	
Rank Sum = 733				
Rank Mean = 61.0833				
<hr/>				
PH1-GWA-1A	6/19/2018	ND<1	55	
	12/18/2018	ND<1	55	
	6/10/2019	ND<1	55	
	12/10/2019	ND<1	55	
	6/22/2020	ND<1	55	
	12/18/2020	ND<1	55	
	6/15/2021	ND<1	55	
	12/13/2021	ND<1	55	

Forsyth County - Hightower Road Landfill - Phase I				Trichloroethene
	6/8/2022	ND<1	55	
	12/15/2022	ND<1	55	
	6/22/2023	ND<1	55	
	12/11/2023	ND<1	55	
Rank Sum = 660				
Rank Mean = 55				
<hr/>				
PH1-GWB-2	6/19/2018	ND<1	55	
	12/17/2018	ND<1	55	
	6/12/2019	ND<1	55	
	12/12/2019	ND<1	55	
	6/24/2020	ND<1	55	
	12/17/2020	ND<1	55	
	6/16/2021	ND<1	55	
	12/13/2021	ND<1	55	
	6/9/2022	ND<1	55	
	12/12/2022	ND<1	55	
	6/20/2023	ND<1	55	
	12/12/2023	ND<1	55	
Rank Sum = 660				
Rank Mean = 55				
<hr/>				
PH1-GWC-1	6/19/2018	ND<1	55	
	12/19/2018	ND<1	55	
	6/13/2019	ND<1	55	
	12/11/2019	ND<1	55	
	6/22/2020	ND<1	55	
	12/17/2020	ND<1	55	
	6/16/2021	ND<1	55	
	12/15/2021	ND<1	55	
	6/9/2022	ND<1	55	
	12/14/2022	ND<1	55	
	6/19/2023	ND<1	55	
	12/13/2023	ND<1	55	
Rank Sum = 660				
Rank Mean = 55				
<hr/>				
PH1-GWC-2	6/19/2018	ND<1	55	
	12/18/2018	2	111	
	6/10/2019	2	112	
	12/10/2019	2.6	122	
	6/22/2020	2.1	114	
	12/17/2020	2.5	120	
	6/17/2021	2.7	123	
	12/14/2021	3	127	
	6/8/2022	2.1	115	
	12/14/2022	2.7	124	
	6/22/2023	ND<1	55	
	12/14/2023	2.5	121	
Rank Sum = 1299				
Rank Mean = 108.25				
<hr/>				
PH1-GWC-3	6/19/2018	6.9	139	
	12/18/2018	6.8	136	
	6/10/2019	7.4	144	
	12/9/2019	8.7	152	
	6/22/2020	7.1	140	

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

12/15/2020	7.6	147
6/14/2021	7.5	146
12/14/2021	7.1	141
6/7/2022	7.2	142
12/15/2022	9.5	153
6/22/2023	8	148
12/13/2023	ND<1	55

Rank Sum = 1643
Rank Mean = 136.917

PH1-GWC-3A	6/19/2018	6.8	137
	12/18/2018	5.8	134
	6/10/2019	5.7	132
	12/9/2019	8.4	151
	6/26/2020	2.8	126
	12/15/2020	8.1	150
	6/14/2021	6.1	135
	12/14/2021	5.7	133
	6/7/2022	6.8	138
	12/15/2022	8	149
	6/22/2023	5.5	131
	12/13/2023	7.4	145

Rank Sum = 1661
Rank Mean = 138.417

PH1-GWC-4	6/19/2018	ND<1	55
	12/19/2018	ND<1	55
	6/13/2019	ND<1	55
	6/22/2020	ND<1	55
	12/17/2020	ND<1	55
	6/16/2021	ND<1	55
	12/15/2021	ND<1	55
	6/6/2022	ND<1	55
	6/19/2023	ND<1	55

Rank Sum = 495
Rank Mean = 55

Calculation Results:

Kruskal-Wallis H Statistic = 82.43

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 129.113

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

82.43 > 19.6752 indicating a significant group difference at 5% significance level

129.113 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	110.833	55.8333	36.4455
PH1-GWB-1	55	0	36.4455
GWC-1	55	0	36.4455
PH1-GWA-1	61.0833	6.08333	36.4455
PH1-GWA-1A	55	0	36.4455
PH1-GWB-2	55	0	36.4455
PH1-GWC-1	55	0	36.4455

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

PH1-GWC-2	108.25	53.25	36.4455
PH1-GWC-3	136.917	81.9167	36.4455
PH1-GWC-3A	138.417	83.4167	36.4455
PH1-GWC-4	55	0	40.292

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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	110.833	55.8333	41.5488
PH1-GWB-1	55	0	41.5488
GWC-1	55	0	41.5488
PH1-GWA-1	61.0833	6.08333	41.5488
PH1-GWA-1A	55	0	41.5488
PH1-GWB-2	55	0	41.5488
PH1-GWC-1	55	0	41.5488
PH1-GWC-2	108.25	53.25	41.5488
PH1-GWC-3	136.917	81.9167	41.5488
PH1-GWC-3A	138.417	83.4167	41.5488
PH1-GWC-4	55	0	45.9339

Kruskal-Wallis Non-Parametric Test

Parameter: 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	6/18/2018	ND<10	54.5
	12/17/2018	ND<10	54.5
	6/13/2019	ND<10	54.5
	12/12/2019	ND<10	54.5
	6/25/2020	ND<10	54.5
	12/18/2020	ND<10	54.5
	6/15/2021	ND<10	54.5
	12/15/2021	ND<10	54.5
	6/6/2022	ND<10	54.5
	12/12/2022	ND<10	54.5
	6/20/2023	ND<10	54.5
	12/14/2023	ND<10	54.5

Rank Sum = 654
 Rank Mean = 54.5

PH1-GWA-4	6/19/2018	ND<10	54.5
	12/19/2018	ND<10	54.5
	6/12/2019	ND<10	54.5
	12/10/2019	48.9	149
	6/25/2020	ND<10	54.5
	12/16/2020	ND<10	54.5
	6/17/2021	ND<10	54.5
	12/15/2021	ND<10	54.5
	6/8/2022	ND<10	54.5
	12/15/2022	ND<10	54.5
	6/23/2023	ND<10	54.5
	12/13/2023	ND<10	54.5

Rank Sum = 748.5
 Rank Mean = 62.375

Background Rank Sum = 1402.5
 Background Rank Mean = 58.4375

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/19/2018	ND<10	54.5
	12/19/2018	29	127
	6/12/2019	ND<10	54.5
	12/10/2019	ND<10	54.5
	6/25/2020	ND<10	54.5
	12/16/2020	ND<10	54.5
	6/17/2021	ND<10	54.5
	12/15/2021	ND<10	54.5
	6/8/2022	ND<10	54.5
	12/15/2022	ND<10	54.5
	6/22/2023	ND<10	54.5

12/14/2023 ND<10 54.5
 Rank Sum = 726.5
 Rank Mean = 60.5417

PH1-GWB-1	6/19/2018	39	145
	12/18/2018	ND<10	54.5
	6/12/2019	22	117
	12/11/2019	38.2	141
	6/25/2020	26.8	123
	12/18/2020	ND<10	54.5
	6/15/2021	ND<10	54.5
	12/14/2021	ND<10	54.5
	6/8/2022	ND<10	54.5
	12/13/2022	ND<10	54.5
	6/21/2023	ND<10	54.5
	12/13/2023	ND<10	54.5

Rank Sum = 962
 Rank Mean = 80.1667

PH1-GWC-2	6/19/2018	20	109
	12/18/2018	ND<10	54.5
	6/10/2019	26	121
	12/10/2019	ND<10	54.5
	6/22/2020	ND<10	54.5
	12/17/2020	ND<10	54.5
	6/17/2021	ND<10	54.5
	12/17/2021	ND<10	54.5
	6/8/2022	45.9	148
	12/14/2022	21.6	114
	6/22/2023	37.3	140
	12/14/2023	34.7	138

Rank Sum = 1097
 Rank Mean = 91.4167

GWC-1	6/20/2018	20	110
	12/18/2018	ND<10	54.5
	6/13/2019	ND<10	54.5
	12/11/2019	27.1	124
	6/23/2020	55.4	151
	12/17/2020	ND<10	54.5
	6/16/2021	ND<10	54.5
	12/16/2021	ND<10	54.5
	6/8/2022	ND<10	54.5
	12/13/2022	ND<10	54.5
	6/20/2023	ND<10	54.5
	12/12/2023	ND<10	54.5

Rank Sum = 875.5
 Rank Mean = 72.9583

PH1-GWA-1	6/20/2018	55	150
	12/19/2018	40	146
	6/11/2019	34	137
	12/10/2019	32.4	134
	6/23/2020	ND<10	54.5
	12/16/2020	ND<10	54.5
	6/16/2021	ND<10	54.5
	12/14/2021	31	131

Forsyth County - Hightower Road Landfill - Phase I

Zinc

6/9/2022	ND<10	54.5
12/15/2022	ND<10	54.5
6/21/2023	31.6	133
12/14/2023	21.3	113

Rank Sum = 1216.5
Rank Mean = 101.375

PH1-GWA-1A	6/20/2018	ND<10	54.5
	12/19/2018	ND<10	54.5
	6/11/2019	ND<10	54.5
	12/10/2019	ND<10	54.5
	6/22/2020	ND<10	54.5
	12/18/2020	ND<10	54.5
	6/16/2021	ND<10	54.5
	12/14/2021	ND<10	54.5
	6/8/2022	38.2	142
	12/15/2022	ND<10	54.5
	6/22/2023	ND<10	54.5
	12/12/2023	ND<10	54.5

Rank Sum = 741.5
Rank Mean = 61.7917

PH1-GWB-2	6/20/2018	31	132
	12/18/2018	28	126
	6/13/2019	33	136
	12/13/2019	38.3	143
	6/25/2020	25.4	120
	12/18/2020	21.6	115
	6/17/2021	26.3	122
	12/14/2021	23.8	119
	6/10/2022	29.4	129
	12/13/2022	62.9	152
	6/21/2023	29	128
	12/13/2023	27.4	125

Rank Sum = 1547
Rank Mean = 128.917

PH1-GWC-1	6/20/2018	ND<10	54.5
	12/20/2018	ND<10	54.5
	6/13/2019	ND<10	54.5
	12/12/2019	ND<10	54.5
	6/23/2020	32.5	135
	12/18/2020	ND<10	54.5
	6/17/2021	ND<10	54.5
	12/16/2021	ND<10	54.5
	6/10/2022	ND<10	54.5
	12/15/2022	ND<10	54.5
	6/20/2023	ND<10	54.5
	12/14/2023	ND<10	54.5

Rank Sum = 734.5
Rank Mean = 61.2083

PH1-GWC-3	6/20/2018	ND<10	54.5
	12/19/2018	ND<10	54.5
	6/11/2019	ND<10	54.5
	12/10/2019	ND<10	54.5
	6/23/2020	ND<10	54.5

Forsyth County - Hightower Road Landfill - Phase I

Zinc

12/16/2020	ND<10	54.5
6/15/2021	ND<10	54.5
12/15/2021	ND<10	54.5
6/8/2022	ND<10	54.5
12/15/2022	ND<10	54.5
6/22/2023	ND<10	54.5
12/14/2023	ND<10	54.5

Rank Sum = 654
Rank Mean = 54.5

PH1-GWC-4	6/20/2018	ND<10	54.5
	12/20/2018	120	153
	6/13/2019	20	111
	6/23/2020	ND<10	54.5
	12/18/2020	ND<10	54.5
	6/17/2021	ND<10	54.5
	12/16/2021	21.7	116
	6/7/2022	30.7	130
	6/20/2023	ND<10	54.5

Rank Sum = 782.5
Rank Mean = 86.9444

PH1-GWC-3A	6/28/2018	21	112
	12/19/2018	ND<10	54.5
	6/11/2019	ND<10	54.5
	12/10/2019	ND<10	54.5
	6/23/2020	36.9	139
	12/16/2020	ND<10	54.5
	6/15/2021	23.6	118
	12/15/2021	43.6	147
	6/8/2022	38.8	144
	12/15/2022	ND<10	54.5
	6/22/2023	ND<10	54.5
	12/14/2023	ND<10	54.5

Rank Sum = 1041.5
Rank Mean = 86.7917

Calculation Results:

Kruskal-Wallis H Statistic = 34.4731

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 53.175

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

34.4731 > 19.6752 indicating a significant group difference at 5% significance level

53.175 > 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 58.4375

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	60.5417	2.10417	36.4455
PH1-GWB-1	80.1667	21.7292	36.4455
PH1-GWC-2	91.4167	32.9792	36.4455
GWC-1	72.9583	14.5208	36.4455
PH1-GWA-1	101.375	42.9375	36.4455
PH1-GWA-1A	61.7917	3.35417	36.4455
PH1-GWB-2	128.917	70.4792	36.4455

Forsyth County - Hightower Road Landfill - Phase I

Zinc

PH1-GWC-1	61.2083	2.77083	36.4455
PH1-GWC-3	54.5	-3.9375	36.4455
PH1-GWC-4	86.9444	28.5069	40.292
PH1-GWC-3A	86.7917	28.3542	36.4455

**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 58.4375

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	60.5417	2.10417	41.5488
PH1-GWB-1	80.1667	21.7292	41.5488
PH1-GWC-2	91.4167	32.9792	41.5488
GWC-1	72.9583	14.5208	41.5488
PH1-GWA-1	101.375	42.9375	41.5488
PH1-GWA-1A	61.7917	3.35417	41.5488
PH1-GWB-2	128.917	70.4792	41.5488
PH1-GWC-1	61.2083	2.77083	41.5488
PH1-GWC-3	54.5	-3.9375	41.5488
PH1-GWC-4	86.9444	28.5069	45.9339
PH1-GWC-3A	86.7917	28.3542	41.5488

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 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-23	FALSE	1%
1,1-Dichloroethane	GWC-23A	FALSE	1%
1,1-Dichloroethane	GWA-1A	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-15	TRUE	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-24	FALSE	1%
1,1-Dichloroethane	GWC-7	FALSE	1%
1,1-Dichloroethane	GWC-14	FALSE	1%
1,1-Dichloroethane	GWC-14A	TRUE	1%
1,1-Dichloroethane	GWC-14R	TRUE	1%
1,1-Dichloroethane	GWC-2	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-8	FALSE	1%
1,1-Dichloroethane	GWC-8A	TRUE	1%
1,1-Dichloroethane	GWC-8R	TRUE	1%
1,1-Dichloroethane	GWC-9	FALSE	1%
1,1-Dichloroethane	GWC-16A	FALSE	1%
1,1-Dichloroethane	GWC-3	FALSE	1%
1,1-Dichloroethane	GWC-5	FALSE	1%
1,1-Dichloroethane	GWC-6	FALSE	1%
1,1-Dichloroethane	GWA-3	FALSE	0.16%
1,1-Dichloroethane	GWC-23	FALSE	0.16%
1,1-Dichloroethane	GWC-23A	FALSE	0.16%
1,1-Dichloroethane	GWA-1A	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%

Notes:

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4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWC-12	FALSE	0.16%
1,1-Dichloroethane	GWC-12A	FALSE	0.16%
1,1-Dichloroethane	GWC-13	FALSE	0.16%
1,1-Dichloroethane	GWC-15	TRUE	0.16%
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-24	FALSE	0.16%
1,1-Dichloroethane	GWC-7	FALSE	0.16%
1,1-Dichloroethane	GWC-14	FALSE	0.16%
1,1-Dichloroethane	GWC-14A	TRUE	0.16%
1,1-Dichloroethane	GWC-14R	TRUE	0.16%
1,1-Dichloroethane	GWC-2	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-8	FALSE	0.16%
1,1-Dichloroethane	GWC-8A	TRUE	0.16%
1,1-Dichloroethane	GWC-8R	TRUE	0.16%
1,1-Dichloroethane	GWC-9	FALSE	0.16%
1,1-Dichloroethane	GWC-16A	FALSE	0.16%
1,1-Dichloroethane	GWC-3	FALSE	0.16%
1,1-Dichloroethane	GWC-5	FALSE	0.16%
1,1-Dichloroethane	GWC-6	FALSE	0.16%
1,1-Dichloroethene	GWA-3	FALSE	5%
1,1-Dichloroethene	GWC-23	FALSE	5%
1,1-Dichloroethene	GWC-23A	FALSE	5%
1,1-Dichloroethene	GWA-1A	FALSE	5%
1,1-Dichloroethene	GWC-10	FALSE	5%
1,1-Dichloroethene	GWC-10A	FALSE	5%
1,1-Dichloroethene	GWC-11	FALSE	5%
1,1-Dichloroethene	GWC-12	FALSE	5%
1,1-Dichloroethene	GWC-12A	FALSE	5%
1,1-Dichloroethene	GWC-13	FALSE	5%
1,1-Dichloroethene	GWC-15	FALSE	5%
1,1-Dichloroethene	GWC-17	FALSE	5%
1,1-Dichloroethene	GWC-18	FALSE	5%
1,1-Dichloroethene	GWC-19R	FALSE	5%

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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethene	GWC-22	FALSE	5%
1,1-Dichloroethene	GWC-24	FALSE	5%
1,1-Dichloroethene	GWC-7	FALSE	5%
1,1-Dichloroethene	GWC-14	FALSE	5%
1,1-Dichloroethene	GWC-14A	FALSE	5%
1,1-Dichloroethene	GWC-14R	FALSE	5%
1,1-Dichloroethene	GWC-2	FALSE	5%
1,1-Dichloroethene	GWC-3A	FALSE	5%
1,1-Dichloroethene	GWC-4	FALSE	5%
1,1-Dichloroethene	GWC-4A	FALSE	5%
1,1-Dichloroethene	GWC-8	FALSE	5%
1,1-Dichloroethene	GWC-8A	FALSE	5%
1,1-Dichloroethene	GWC-8R	FALSE	5%
1,1-Dichloroethene	GWC-9	FALSE	5%
1,1-Dichloroethene	GWC-16A	FALSE	5%
1,1-Dichloroethene	GWC-3	FALSE	5%
1,1-Dichloroethene	GWC-5	FALSE	5%
1,1-Dichloroethene	GWC-6	FALSE	5%
Barium	GWA-3	FALSE	1%
Barium	GWC-23	FALSE	1%
Barium	GWC-23A	FALSE	1%
Barium	GWA-1A	FALSE	1%
Barium	GWC-10	FALSE	1%
Barium	GWC-10A	FALSE	1%
Barium	GWC-11	FALSE	1%
Barium	GWC-12	FALSE	1%
Barium	GWC-12A	FALSE	1%
Barium	GWC-13	FALSE	1%
Barium	GWC-15	TRUE	1%
Barium	GWC-17	FALSE	1%
Barium	GWC-18	TRUE	1%
Barium	GWC-19R	TRUE	1%
Barium	GWC-22	FALSE	1%
Barium	GWC-24	FALSE	1%
Barium	GWC-7	TRUE	1%
Barium	GWC-16A	FALSE	1%
Barium	GWC-14	FALSE	1%
Barium	GWC-14A	TRUE	1%
Barium	GWC-2	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-3	FALSE	1%
Barium	GWC-3A	FALSE	1%
Barium	GWC-4	FALSE	1%
Barium	GWC-4A	FALSE	1%
Barium	GWC-5	FALSE	1%
Barium	GWC-6	FALSE	1%
Barium	GWC-8	FALSE	1%
Barium	GWC-8A	TRUE	1%
Barium	GWC-9	TRUE	1%
Barium	GWC-14R	FALSE	1%
Barium	GWC-8R	FALSE	1%
Barium	GWA-3	FALSE	0.16%
Barium	GWC-23	FALSE	0.16%
Barium	GWC-23A	FALSE	0.16%
Barium	GWA-1A	FALSE	0.16%
Barium	GWC-10	FALSE	0.16%
Barium	GWC-10A	FALSE	0.16%
Barium	GWC-11	FALSE	0.16%
Barium	GWC-12	FALSE	0.16%
Barium	GWC-12A	FALSE	0.16%
Barium	GWC-13	FALSE	0.16%
Barium	GWC-15	TRUE	0.16%
Barium	GWC-17	FALSE	0.16%
Barium	GWC-18	TRUE	0.16%
Barium	GWC-19R	TRUE	0.16%
Barium	GWC-22	FALSE	0.16%
Barium	GWC-24	FALSE	0.16%
Barium	GWC-7	FALSE	0.16%
Barium	GWC-16A	FALSE	0.16%
Barium	GWC-14	FALSE	0.16%
Barium	GWC-14A	TRUE	0.16%
Barium	GWC-2	FALSE	0.16%
Barium	GWC-3	FALSE	0.16%
Barium	GWC-3A	FALSE	0.16%
Barium	GWC-4	FALSE	0.16%
Barium	GWC-4A	FALSE	0.16%
Barium	GWC-5	FALSE	0.16%
Barium	GWC-6	FALSE	0.16%
Barium	GWC-8	FALSE	0.16%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-8A	TRUE	0.16%
Barium	GWC-9	TRUE	0.16%
Barium	GWC-14R	FALSE	0.16%
Barium	GWC-8R	FALSE	0.16%
Benzene	GWA-3	FALSE	1%
Benzene	GWC-23	FALSE	1%
Benzene	GWC-23A	FALSE	1%
Benzene	GWA-1A	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-15	TRUE	1%
Benzene	GWC-17	FALSE	1%
Benzene	GWC-18	FALSE	1%
Benzene	GWC-19R	FALSE	1%
Benzene	GWC-22	FALSE	1%
Benzene	GWC-24	FALSE	1%
Benzene	GWC-7	FALSE	1%
Benzene	GWC-14	FALSE	1%
Benzene	GWC-14A	TRUE	1%
Benzene	GWC-14R	FALSE	1%
Benzene	GWC-2	FALSE	1%
Benzene	GWC-3A	FALSE	1%
Benzene	GWC-4	FALSE	1%
Benzene	GWC-4A	FALSE	1%
Benzene	GWC-8	FALSE	1%
Benzene	GWC-8A	TRUE	1%
Benzene	GWC-8R	FALSE	1%
Benzene	GWC-9	FALSE	1%
Benzene	GWC-16A	FALSE	1%
Benzene	GWC-3	FALSE	1%
Benzene	GWC-5	FALSE	1%
Benzene	GWC-6	FALSE	1%
Benzene	GWA-3	FALSE	0.16%
Benzene	GWC-23	FALSE	0.16%
Benzene	GWC-23A	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.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWA-1A	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-15	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-24	FALSE	0.16%
Benzene	GWC-7	FALSE	0.16%
Benzene	GWC-14	FALSE	0.16%
Benzene	GWC-14A	TRUE	0.16%
Benzene	GWC-14R	FALSE	0.16%
Benzene	GWC-2	FALSE	0.16%
Benzene	GWC-3A	FALSE	0.16%
Benzene	GWC-4	FALSE	0.16%
Benzene	GWC-4A	FALSE	0.16%
Benzene	GWC-8	FALSE	0.16%
Benzene	GWC-8A	FALSE	0.16%
Benzene	GWC-8R	FALSE	0.16%
Benzene	GWC-9	FALSE	0.16%
Benzene	GWC-16A	FALSE	0.16%
Benzene	GWC-3	FALSE	0.16%
Benzene	GWC-5	FALSE	0.16%
Benzene	GWC-6	FALSE	0.16%
Chlorobenzene	GWA-3	FALSE	1%
Chlorobenzene	GWC-23	FALSE	1%
Chlorobenzene	GWC-23A	FALSE	1%
Chlorobenzene	GWA-1A	FALSE	1%
Chlorobenzene	GWC-10	FALSE	1%
Chlorobenzene	GWC-10A	FALSE	1%
Chlorobenzene	GWC-11	FALSE	1%
Chlorobenzene	GWC-12	FALSE	1%
Chlorobenzene	GWC-12A	FALSE	1%
Chlorobenzene	GWC-13	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.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-15	FALSE	1%
Chlorobenzene	GWC-17	FALSE	1%
Chlorobenzene	GWC-18	FALSE	1%
Chlorobenzene	GWC-19R	FALSE	1%
Chlorobenzene	GWC-22	FALSE	1%
Chlorobenzene	GWC-24	FALSE	1%
Chlorobenzene	GWC-7	FALSE	1%
Chlorobenzene	GWC-14	FALSE	1%
Chlorobenzene	GWC-14A	TRUE	1%
Chlorobenzene	GWC-14R	FALSE	1%
Chlorobenzene	GWC-2	FALSE	1%
Chlorobenzene	GWC-3A	FALSE	1%
Chlorobenzene	GWC-4	FALSE	1%
Chlorobenzene	GWC-4A	FALSE	1%
Chlorobenzene	GWC-8	FALSE	1%
Chlorobenzene	GWC-8A	FALSE	1%
Chlorobenzene	GWC-8R	FALSE	1%
Chlorobenzene	GWC-9	FALSE	1%
Chlorobenzene	GWC-16A	FALSE	1%
Chlorobenzene	GWC-3	FALSE	1%
Chlorobenzene	GWC-5	FALSE	1%
Chlorobenzene	GWC-6	FALSE	1%
Chlorobenzene	GWA-3	FALSE	0.16%
Chlorobenzene	GWC-23	FALSE	0.16%
Chlorobenzene	GWC-23A	FALSE	0.16%
Chlorobenzene	GWA-1A	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-15	FALSE	0.16%
Chlorobenzene	GWC-17	FALSE	0.16%
Chlorobenzene	GWC-18	FALSE	0.16%
Chlorobenzene	GWC-19R	FALSE	0.16%
Chlorobenzene	GWC-22	FALSE	0.16%
Chlorobenzene	GWC-24	FALSE	0.16%
Chlorobenzene	GWC-7	FALSE	0.16%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-14	FALSE	0.16%
Chlorobenzene	GWC-14A	TRUE	0.16%
Chlorobenzene	GWC-14R	FALSE	0.16%
Chlorobenzene	GWC-2	FALSE	0.16%
Chlorobenzene	GWC-3A	FALSE	0.16%
Chlorobenzene	GWC-4	FALSE	0.16%
Chlorobenzene	GWC-4A	FALSE	0.16%
Chlorobenzene	GWC-8	FALSE	0.16%
Chlorobenzene	GWC-8A	FALSE	0.16%
Chlorobenzene	GWC-8R	FALSE	0.16%
Chlorobenzene	GWC-9	FALSE	0.16%
Chlorobenzene	GWC-16A	FALSE	0.16%
Chlorobenzene	GWC-3	FALSE	0.16%
Chlorobenzene	GWC-5	FALSE	0.16%
Chlorobenzene	GWC-6	FALSE	0.16%
Chloroethane	GWA-3	FALSE	1%
Chloroethane	GWC-23	FALSE	1%
Chloroethane	GWC-23A	FALSE	1%
Chloroethane	GWA-1A	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-15	FALSE	1%
Chloroethane	GWC-17	FALSE	1%
Chloroethane	GWC-18	FALSE	1%
Chloroethane	GWC-19R	FALSE	1%
Chloroethane	GWC-22	FALSE	1%
Chloroethane	GWC-24	FALSE	1%
Chloroethane	GWC-7	FALSE	1%
Chloroethane	GWC-14	FALSE	1%
Chloroethane	GWC-14A	TRUE	1%
Chloroethane	GWC-14R	FALSE	1%
Chloroethane	GWC-2	FALSE	1%
Chloroethane	GWC-3A	FALSE	1%
Chloroethane	GWC-4	FALSE	1%
Chloroethane	GWC-4A	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-8	FALSE	1%
Chloroethane	GWC-8A	FALSE	1%
Chloroethane	GWC-8R	FALSE	1%
Chloroethane	GWC-9	FALSE	1%
Chloroethane	GWC-16A	FALSE	1%
Chloroethane	GWC-3	FALSE	1%
Chloroethane	GWC-5	FALSE	1%
Chloroethane	GWC-6	FALSE	1%
Chloroethane	GWA-3	FALSE	0.16%
Chloroethane	GWC-23	FALSE	0.16%
Chloroethane	GWC-23A	FALSE	0.16%
Chloroethane	GWA-1A	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-15	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-24	FALSE	0.16%
Chloroethane	GWC-7	FALSE	0.16%
Chloroethane	GWC-14	FALSE	0.16%
Chloroethane	GWC-14A	TRUE	0.16%
Chloroethane	GWC-14R	FALSE	0.16%
Chloroethane	GWC-2	FALSE	0.16%
Chloroethane	GWC-3A	FALSE	0.16%
Chloroethane	GWC-4	FALSE	0.16%
Chloroethane	GWC-4A	FALSE	0.16%
Chloroethane	GWC-8	FALSE	0.16%
Chloroethane	GWC-8A	FALSE	0.16%
Chloroethane	GWC-8R	FALSE	0.16%
Chloroethane	GWC-9	FALSE	0.16%
Chloroethane	GWC-16A	FALSE	0.16%
Chloroethane	GWC-3	FALSE	0.16%
Chloroethane	GWC-5	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-6	FALSE	0.16%
Chromium	GWA-3	FALSE	5%
Chromium	GWC-23	FALSE	5%
Chromium	GWC-23A	FALSE	5%
Chromium	GWA-1A	FALSE	5%
Chromium	GWC-10	FALSE	5%
Chromium	GWC-10A	FALSE	5%
Chromium	GWC-11	FALSE	5%
Chromium	GWC-12	FALSE	5%
Chromium	GWC-12A	FALSE	5%
Chromium	GWC-13	FALSE	5%
Chromium	GWC-15	FALSE	5%
Chromium	GWC-17	FALSE	5%
Chromium	GWC-18	FALSE	5%
Chromium	GWC-19R	FALSE	5%
Chromium	GWC-22	FALSE	5%
Chromium	GWC-24	FALSE	5%
Chromium	GWC-7	FALSE	5%
Chromium	GWC-16A	FALSE	5%
Chromium	GWC-14	FALSE	5%
Chromium	GWC-14A	FALSE	5%
Chromium	GWC-2	FALSE	5%
Chromium	GWC-3	FALSE	5%
Chromium	GWC-3A	FALSE	5%
Chromium	GWC-4	FALSE	5%
Chromium	GWC-4A	FALSE	5%
Chromium	GWC-5	FALSE	5%
Chromium	GWC-6	FALSE	5%
Chromium	GWC-8	FALSE	5%
Chromium	GWC-8A	FALSE	5%
Chromium	GWC-9	FALSE	5%
Chromium	GWC-14R	FALSE	5%
Chromium	GWC-8R	FALSE	5%
cis-1,2-Dichloroethene	GWA-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-23	FALSE	1%
cis-1,2-Dichloroethene	GWC-23A	FALSE	1%
cis-1,2-Dichloroethene	GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	GWC-10	FALSE	1%
cis-1,2-Dichloroethene	GWC-10A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
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-15	TRUE	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-24	FALSE	1%
cis-1,2-Dichloroethene	GWC-7	FALSE	1%
cis-1,2-Dichloroethene	GWC-14	FALSE	1%
cis-1,2-Dichloroethene	GWC-14A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14R	TRUE	1%
cis-1,2-Dichloroethene	GWC-2	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-8	FALSE	1%
cis-1,2-Dichloroethene	GWC-8A	TRUE	1%
cis-1,2-Dichloroethene	GWC-8R	TRUE	1%
cis-1,2-Dichloroethene	GWC-9	FALSE	1%
cis-1,2-Dichloroethene	GWC-16A	FALSE	1%
cis-1,2-Dichloroethene	GWC-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-5	FALSE	1%
cis-1,2-Dichloroethene	GWC-6	FALSE	1%
cis-1,2-Dichloroethene	GWA-3	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	GWA-1A	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-15	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-17	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-18	TRUE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-19R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-22	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-24	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-7	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-14	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-14A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-14R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-2	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-8	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-8R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-9	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-16A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-5	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-6	FALSE	0.16%
Cobalt	GWA-3	FALSE	1%
Cobalt	GWC-23	FALSE	1%
Cobalt	GWC-23A	FALSE	1%
Cobalt	GWA-1A	FALSE	1%
Cobalt	GWC-10	FALSE	1%
Cobalt	GWC-10A	FALSE	1%
Cobalt	GWC-11	FALSE	1%
Cobalt	GWC-12	FALSE	1%
Cobalt	GWC-12A	FALSE	1%
Cobalt	GWC-13	FALSE	1%
Cobalt	GWC-15	FALSE	1%
Cobalt	GWC-17	FALSE	1%
Cobalt	GWC-18	FALSE	1%
Cobalt	GWC-19R	FALSE	1%
Cobalt	GWC-22	FALSE	1%
Cobalt	GWC-24	FALSE	1%
Cobalt	GWC-7	FALSE	1%
Cobalt	GWC-16A	FALSE	1%
Cobalt	GWC-14	TRUE	1%
Cobalt	GWC-14A	TRUE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	GWC-2	FALSE	1%
Cobalt	GWC-3	FALSE	1%
Cobalt	GWC-3A	FALSE	1%
Cobalt	GWC-4	FALSE	1%
Cobalt	GWC-4A	FALSE	1%
Cobalt	GWC-5	FALSE	1%
Cobalt	GWC-6	FALSE	1%
Cobalt	GWC-8	FALSE	1%
Cobalt	GWC-8A	FALSE	1%
Cobalt	GWC-9	FALSE	1%
Cobalt	GWC-14R	FALSE	1%
Cobalt	GWC-8R	FALSE	1%
Cobalt	GWA-3	FALSE	0.16%
Cobalt	GWC-23	FALSE	0.16%
Cobalt	GWC-23A	FALSE	0.16%
Cobalt	GWA-1A	FALSE	0.16%
Cobalt	GWC-10	FALSE	0.16%
Cobalt	GWC-10A	FALSE	0.16%
Cobalt	GWC-11	FALSE	0.16%
Cobalt	GWC-12	FALSE	0.16%
Cobalt	GWC-12A	FALSE	0.16%
Cobalt	GWC-13	FALSE	0.16%
Cobalt	GWC-15	FALSE	0.16%
Cobalt	GWC-17	FALSE	0.16%
Cobalt	GWC-18	FALSE	0.16%
Cobalt	GWC-19R	FALSE	0.16%
Cobalt	GWC-22	FALSE	0.16%
Cobalt	GWC-24	FALSE	0.16%
Cobalt	GWC-7	FALSE	0.16%
Cobalt	GWC-16A	FALSE	0.16%
Cobalt	GWC-14	TRUE	0.16%
Cobalt	GWC-14A	TRUE	0.16%
Cobalt	GWC-2	FALSE	0.16%
Cobalt	GWC-3	FALSE	0.16%
Cobalt	GWC-3A	FALSE	0.16%
Cobalt	GWC-4	FALSE	0.16%
Cobalt	GWC-4A	FALSE	0.16%
Cobalt	GWC-5	FALSE	0.16%
Cobalt	GWC-6	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	GWC-8	FALSE	0.16%
Cobalt	GWC-8A	FALSE	0.16%
Cobalt	GWC-9	FALSE	0.16%
Cobalt	GWC-14R	FALSE	0.16%
Cobalt	GWC-8R	FALSE	0.16%
Nickel	GWA-3	FALSE	1%
Nickel	GWC-23	FALSE	1%
Nickel	GWC-23A	FALSE	1%
Nickel	GWA-1A	FALSE	1%
Nickel	GWC-10	FALSE	1%
Nickel	GWC-10A	FALSE	1%
Nickel	GWC-11	FALSE	1%
Nickel	GWC-12	FALSE	1%
Nickel	GWC-12A	FALSE	1%
Nickel	GWC-13	FALSE	1%
Nickel	GWC-15	FALSE	1%
Nickel	GWC-17	FALSE	1%
Nickel	GWC-18	FALSE	1%
Nickel	GWC-19R	FALSE	1%
Nickel	GWC-22	FALSE	1%
Nickel	GWC-24	FALSE	1%
Nickel	GWC-7	FALSE	1%
Nickel	GWC-16A	FALSE	1%
Nickel	GWC-14	FALSE	1%
Nickel	GWC-14A	TRUE	1%
Nickel	GWC-2	FALSE	1%
Nickel	GWC-3	FALSE	1%
Nickel	GWC-3A	FALSE	1%
Nickel	GWC-4	FALSE	1%
Nickel	GWC-4A	FALSE	1%
Nickel	GWC-5	FALSE	1%
Nickel	GWC-6	FALSE	1%
Nickel	GWC-8	FALSE	1%
Nickel	GWC-8A	FALSE	1%
Nickel	GWC-9	FALSE	1%
Nickel	GWC-14R	FALSE	1%
Nickel	GWC-8R	FALSE	1%
Nickel	GWA-3	FALSE	0.16%
Nickel	GWC-23	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Nickel	GWC-23A	FALSE	0.16%
Nickel	GWA-1A	FALSE	0.16%
Nickel	GWC-10	FALSE	0.16%
Nickel	GWC-10A	FALSE	0.16%
Nickel	GWC-11	FALSE	0.16%
Nickel	GWC-12	FALSE	0.16%
Nickel	GWC-12A	FALSE	0.16%
Nickel	GWC-13	FALSE	0.16%
Nickel	GWC-15	FALSE	0.16%
Nickel	GWC-17	FALSE	0.16%
Nickel	GWC-18	FALSE	0.16%
Nickel	GWC-19R	FALSE	0.16%
Nickel	GWC-22	FALSE	0.16%
Nickel	GWC-24	FALSE	0.16%
Nickel	GWC-7	FALSE	0.16%
Nickel	GWC-16A	FALSE	0.16%
Nickel	GWC-14	FALSE	0.16%
Nickel	GWC-14A	FALSE	0.16%
Nickel	GWC-2	FALSE	0.16%
Nickel	GWC-3	FALSE	0.16%
Nickel	GWC-3A	FALSE	0.16%
Nickel	GWC-4	FALSE	0.16%
Nickel	GWC-4A	FALSE	0.16%
Nickel	GWC-5	FALSE	0.16%
Nickel	GWC-6	FALSE	0.16%
Nickel	GWC-8	FALSE	0.16%
Nickel	GWC-8A	FALSE	0.16%
Nickel	GWC-9	FALSE	0.16%
Nickel	GWC-14R	FALSE	0.16%
Nickel	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWA-3	FALSE	1%
Tetrachloroethene	GWC-23	FALSE	1%
Tetrachloroethene	GWC-23A	FALSE	1%
Tetrachloroethene	GWA-1A	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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-13	FALSE	1%
Tetrachloroethene	GWC-15	TRUE	1%
Tetrachloroethene	GWC-17	FALSE	1%
Tetrachloroethene	GWC-18	TRUE	1%
Tetrachloroethene	GWC-19R	FALSE	1%
Tetrachloroethene	GWC-22	FALSE	1%
Tetrachloroethene	GWC-24	FALSE	1%
Tetrachloroethene	GWC-7	FALSE	1%
Tetrachloroethene	GWC-14	FALSE	1%
Tetrachloroethene	GWC-14A	FALSE	1%
Tetrachloroethene	GWC-14R	FALSE	1%
Tetrachloroethene	GWC-2	FALSE	1%
Tetrachloroethene	GWC-3A	FALSE	1%
Tetrachloroethene	GWC-4	FALSE	1%
Tetrachloroethene	GWC-4A	FALSE	1%
Tetrachloroethene	GWC-8	FALSE	1%
Tetrachloroethene	GWC-8A	FALSE	1%
Tetrachloroethene	GWC-8R	FALSE	1%
Tetrachloroethene	GWC-9	FALSE	1%
Tetrachloroethene	GWC-16A	FALSE	1%
Tetrachloroethene	GWC-3	FALSE	1%
Tetrachloroethene	GWC-5	FALSE	1%
Tetrachloroethene	GWC-6	FALSE	1%
Tetrachloroethene	GWA-3	FALSE	0.16%
Tetrachloroethene	GWC-23	FALSE	0.16%
Tetrachloroethene	GWC-23A	FALSE	0.16%
Tetrachloroethene	GWA-1A	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-15	TRUE	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-24	FALSE	0.16%

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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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-7	FALSE	0.16%
Tetrachloroethene	GWC-14	FALSE	0.16%
Tetrachloroethene	GWC-14A	FALSE	0.16%
Tetrachloroethene	GWC-14R	FALSE	0.16%
Tetrachloroethene	GWC-2	FALSE	0.16%
Tetrachloroethene	GWC-3A	FALSE	0.16%
Tetrachloroethene	GWC-4	FALSE	0.16%
Tetrachloroethene	GWC-4A	FALSE	0.16%
Tetrachloroethene	GWC-8	FALSE	0.16%
Tetrachloroethene	GWC-8A	FALSE	0.16%
Tetrachloroethene	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWC-9	FALSE	0.16%
Tetrachloroethene	GWC-16A	FALSE	0.16%
Tetrachloroethene	GWC-3	FALSE	0.16%
Tetrachloroethene	GWC-5	FALSE	0.16%
Tetrachloroethene	GWC-6	FALSE	0.16%
Trichloroethene	GWA-3	FALSE	1%
Trichloroethene	GWC-23	FALSE	1%
Trichloroethene	GWC-23A	FALSE	1%
Trichloroethene	GWA-1A	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-15	TRUE	1%
Trichloroethene	GWC-17	FALSE	1%
Trichloroethene	GWC-18	FALSE	1%
Trichloroethene	GWC-19R	FALSE	1%
Trichloroethene	GWC-22	FALSE	1%
Trichloroethene	GWC-24	FALSE	1%
Trichloroethene	GWC-7	FALSE	1%
Trichloroethene	GWC-14	FALSE	1%
Trichloroethene	GWC-14A	FALSE	1%
Trichloroethene	GWC-14R	TRUE	1%
Trichloroethene	GWC-2	FALSE	1%
Trichloroethene	GWC-3A	FALSE	1%
Trichloroethene	GWC-4	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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-4A	FALSE	1%
Trichloroethene	GWC-8	FALSE	1%
Trichloroethene	GWC-8A	FALSE	1%
Trichloroethene	GWC-8R	FALSE	1%
Trichloroethene	GWC-9	FALSE	1%
Trichloroethene	GWC-16A	FALSE	1%
Trichloroethene	GWC-3	FALSE	1%
Trichloroethene	GWC-5	FALSE	1%
Trichloroethene	GWC-6	FALSE	1%
Trichloroethene	GWA-3	FALSE	0.16%
Trichloroethene	GWC-23	FALSE	0.16%
Trichloroethene	GWC-23A	FALSE	0.16%
Trichloroethene	GWA-1A	FALSE	0.16%
Trichloroethene	GWC-10	FALSE	0.16%
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-15	TRUE	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-24	FALSE	0.16%
Trichloroethene	GWC-7	FALSE	0.16%
Trichloroethene	GWC-14	FALSE	0.16%
Trichloroethene	GWC-14A	FALSE	0.16%
Trichloroethene	GWC-14R	TRUE	0.16%
Trichloroethene	GWC-2	FALSE	0.16%
Trichloroethene	GWC-3A	FALSE	0.16%
Trichloroethene	GWC-4	FALSE	0.16%
Trichloroethene	GWC-4A	FALSE	0.16%
Trichloroethene	GWC-8	FALSE	0.16%
Trichloroethene	GWC-8A	FALSE	0.16%
Trichloroethene	GWC-8R	FALSE	0.16%
Trichloroethene	GWC-9	FALSE	0.16%
Trichloroethene	GWC-16A	FALSE	0.16%
Trichloroethene	GWC-3	FALSE	0.16%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-5	FALSE	0.16%
Trichloroethene	GWC-6	FALSE	0.16%
Vinyl chloride	GWA-3	FALSE	1%
Vinyl chloride	GWC-23	FALSE	1%
Vinyl chloride	GWC-23A	FALSE	1%
Vinyl chloride	GWA-1A	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-15	FALSE	1%
Vinyl chloride	GWC-17	FALSE	1%
Vinyl chloride	GWC-18	FALSE	1%
Vinyl chloride	GWC-19R	FALSE	1%
Vinyl chloride	GWC-22	FALSE	1%
Vinyl chloride	GWC-24	FALSE	1%
Vinyl chloride	GWC-7	FALSE	1%
Vinyl chloride	GWC-14	FALSE	1%
Vinyl chloride	GWC-14A	TRUE	1%
Vinyl chloride	GWC-14R	FALSE	1%
Vinyl chloride	GWC-2	FALSE	1%
Vinyl chloride	GWC-3A	FALSE	1%
Vinyl chloride	GWC-4	FALSE	1%
Vinyl chloride	GWC-4A	FALSE	1%
Vinyl chloride	GWC-8	FALSE	1%
Vinyl chloride	GWC-8A	FALSE	1%
Vinyl chloride	GWC-8R	FALSE	1%
Vinyl chloride	GWC-9	FALSE	1%
Vinyl chloride	GWC-16A	FALSE	1%
Vinyl chloride	GWC-3	FALSE	1%
Vinyl chloride	GWC-5	FALSE	1%
Vinyl chloride	GWC-6	FALSE	1%
Vinyl chloride	GWA-3	FALSE	0.16%
Vinyl chloride	GWC-23	FALSE	0.16%
Vinyl chloride	GWC-23A	FALSE	0.16%
Vinyl chloride	GWA-1A	FALSE	0.16%
Vinyl chloride	GWC-10	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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
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-15	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-24	FALSE	0.16%
Vinyl chloride	GWC-7	FALSE	0.16%
Vinyl chloride	GWC-14	FALSE	0.16%
Vinyl chloride	GWC-14A	TRUE	0.16%
Vinyl chloride	GWC-14R	FALSE	0.16%
Vinyl chloride	GWC-2	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-8	FALSE	0.16%
Vinyl chloride	GWC-8A	FALSE	0.16%
Vinyl chloride	GWC-8R	FALSE	0.16%
Vinyl chloride	GWC-9	FALSE	0.16%
Vinyl chloride	GWC-16A	FALSE	0.16%
Vinyl chloride	GWC-3	FALSE	0.16%
Vinyl chloride	GWC-5	FALSE	0.16%
Vinyl chloride	GWC-6	FALSE	0.16%
Zinc	GWA-3	FALSE	1%
Zinc	GWC-23	FALSE	1%
Zinc	GWC-23A	FALSE	1%
Zinc	GWA-1A	FALSE	1%
Zinc	GWC-10	FALSE	1%
Zinc	GWC-10A	FALSE	1%
Zinc	GWC-11	FALSE	1%
Zinc	GWC-12	FALSE	1%
Zinc	GWC-12A	FALSE	1%
Zinc	GWC-13	FALSE	1%
Zinc	GWC-15	FALSE	1%
Zinc	GWC-17	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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-18	FALSE	1%
Zinc	GWC-19R	FALSE	1%
Zinc	GWC-22	FALSE	1%
Zinc	GWC-24	FALSE	1%
Zinc	GWC-7	FALSE	1%
Zinc	GWC-16A	FALSE	1%
Zinc	GWC-14	FALSE	1%
Zinc	GWC-14A	FALSE	1%
Zinc	GWC-2	FALSE	1%
Zinc	GWC-3	FALSE	1%
Zinc	GWC-3A	FALSE	1%
Zinc	GWC-4	FALSE	1%
Zinc	GWC-4A	FALSE	1%
Zinc	GWC-5	FALSE	1%
Zinc	GWC-6	FALSE	1%
Zinc	GWC-8	FALSE	1%
Zinc	GWC-8A	FALSE	1%
Zinc	GWC-9	TRUE	1%
Zinc	GWC-14R	FALSE	1%
Zinc	GWC-8R	FALSE	1%
Zinc	GWA-3	FALSE	0.16%
Zinc	GWC-23	FALSE	0.16%
Zinc	GWC-23A	FALSE	0.16%
Zinc	GWA-1A	FALSE	0.16%
Zinc	GWC-10	FALSE	0.16%
Zinc	GWC-10A	FALSE	0.16%
Zinc	GWC-11	FALSE	0.16%
Zinc	GWC-12	FALSE	0.16%
Zinc	GWC-12A	FALSE	0.16%
Zinc	GWC-13	FALSE	0.16%
Zinc	GWC-15	FALSE	0.16%
Zinc	GWC-17	FALSE	0.16%
Zinc	GWC-18	FALSE	0.16%
Zinc	GWC-19R	FALSE	0.16%
Zinc	GWC-22	FALSE	0.16%
Zinc	GWC-24	FALSE	0.16%
Zinc	GWC-7	FALSE	0.16%
Zinc	GWC-16A	FALSE	0.16%
Zinc	GWC-14	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 2023 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-14A	FALSE	0.16%
Zinc	GWC-2	FALSE	0.16%
Zinc	GWC-3	FALSE	0.16%
Zinc	GWC-3A	FALSE	0.16%
Zinc	GWC-4	FALSE	0.16%
Zinc	GWC-4A	FALSE	0.16%
Zinc	GWC-5	FALSE	0.16%
Zinc	GWC-6	FALSE	0.16%
Zinc	GWC-8	FALSE	0.16%
Zinc	GWC-8A	FALSE	0.16%
Zinc	GWC-9	TRUE	0.16%
Zinc	GWC-14R	FALSE	0.16%
Zinc	GWC-8R	FALSE	0.16%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Kruskal-Wallis Non-Parametric Test

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/19/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/10/2019	ND<1	173.5
	12/9/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	12/15/2022	ND<1	173.5
	6/22/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 2255.5

Rank Mean = 173.5

GWA-2	6/19/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/22/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 2082

Rank Mean = 173.5

Background Rank Sum = 4337.5

Background Rank Mean = 173.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/22/2020	ND<1	173.5
	12/16/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/14/2021	ND<1	173.5
	6/6/2022	ND<1	173.5
	12/13/2022	ND<1	173.5

6/20/2023 ND<1 173.5

12/11/2023 ND<1 173.5

Rank Sum = 2082

Rank Mean = 173.5

GWC-23	6/18/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/16/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/6/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/21/2023	ND<1	173.5
	12/11/2023	ND<1	173.5

Rank Sum = 2082

Rank Mean = 173.5

GWC-23A	6/18/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/16/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/6/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/21/2023	ND<1	173.5
	12/11/2023	ND<1	173.5

Rank Sum = 2082

Rank Mean = 173.5

GWA-1A	6/19/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/10/2019	ND<1	173.5
	12/9/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/17/2021	ND<1	173.5
	12/16/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/14/2022	ND<1	173.5
	6/22/2023	ND<1	173.5
	12/13/2023	ND<1	173.5

Rank Sum = 2082

Rank Mean = 173.5

GWC-10	6/19/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/10/2019	ND<1	173.5
	12/12/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/15/2021	ND<1	173.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

12/15/2021	ND<1	173.5
6/7/2022	ND<1	173.5
12/14/2022	ND<1	173.5
6/21/2023	ND<1	173.5
12/11/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-10A	6/19/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/10/2019	ND<1	173.5
	12/12/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/7/2022	ND<1	173.5
	12/14/2022	ND<1	173.5
	6/21/2023	ND<1	173.5
	12/11/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-11	6/19/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/12/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/7/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/11/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-12	6/19/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/9/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/7/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-12A	6/19/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/9/2019	ND<1	173.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

6/24/2020	ND<1	173.5
12/15/2020	ND<1	173.5
6/15/2021	ND<1	173.5
12/13/2021	ND<1	173.5
6/7/2022	ND<1	173.5
12/12/2022	ND<1	173.5
6/20/2023	ND<1	173.5
12/12/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-13	6/19/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-15	6/19/2018	ND<1	173.5
	12/19/2018	3	355
	6/11/2019	38	398
	12/10/2019	23	396
	6/25/2020	39	399
	12/17/2020	33	397
	6/16/2021	42	402
	12/14/2021	39	400
	6/9/2022	39	401
	12/15/2022	ND<1	173.5
	6/22/2023	ND<1	173.5
	12/13/2023	45	403

Rank Sum = 4071.5
Rank Mean = 339.292

GWC-17	6/19/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/14/2021	ND<1	173.5
	6/9/2022	ND<1	173.5
	12/14/2022	ND<1	173.5
	6/20/2023	ND<1	173.5

Rank Sum = 1908.5
Rank Mean = 173.5

GWC-18	6/19/2018	ND<1	173.5
	12/18/2018	ND<1	173.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

6/11/2019	ND<1	173.5
12/9/2019	ND<1	173.5
6/23/2020	ND<1	173.5
12/15/2020	ND<1	173.5
6/14/2021	ND<1	173.5
12/14/2021	ND<1	173.5
6/7/2022	ND<1	173.5
12/14/2022	ND<1	173.5
6/20/2023	ND<1	173.5
12/12/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-19R	6/19/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/9/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/14/2021	ND<1	173.5
	6/6/2022	ND<1	173.5
	12/14/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/13/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-22	6/19/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/6/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/11/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-24	6/19/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/9/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/15/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/14/2021	ND<1	173.5
	6/7/2022	ND<1	173.5
	12/14/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

GWC-7	6/19/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/11/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-14	6/20/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/9/2022	ND<1	173.5
	12/13/2022	ND<1	173.5
	6/21/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 1908.5
Rank Mean = 173.5

GWC-14A	6/20/2018	17	387
	12/19/2018	16	384
	6/11/2019	9.2	363
	12/10/2019	14	381
	6/24/2020	10	368
	12/15/2020	11	369
	6/15/2021	9.2	364
	12/14/2021	13	378
	6/9/2022	9.5	366
	12/13/2022	18	389
	6/20/2023	12	373
	12/12/2023	17	388

Rank Sum = 4510
Rank Mean = 375.833

GWC-14R	6/20/2018	22	394
	12/19/2018	18	390
	6/12/2019	18	391
	12/10/2019	14	382
	6/23/2020	18	392
	12/17/2020	19	393
	6/16/2021	16	385
	12/14/2021	14	383
	6/9/2022	11	370
	12/13/2022	12	374
	6/21/2023	11	371
	12/12/2023	12	375

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

Rank Sum = 4600
Rank Mean = 383.333

GWC-2	6/20/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/22/2020	ND<1	173.5
	12/16/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/7/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/19/2023	ND<1	173.5
	12/11/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-3A	6/20/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/16/2020	ND<1	173.5
	6/14/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/7/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/19/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-4	6/20/2018	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/16/2021	ND<1	173.5
	12/14/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 1561.5
Rank Mean = 173.5

GWC-4A	6/20/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/17/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/14/2022	ND<1	173.5
	6/21/2023	ND<1	173.5
	12/13/2023	ND<1	173.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

Rank Sum = 2082
Rank Mean = 173.5

GWC-8	6/20/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/16/2020	ND<1	173.5
	6/16/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/9/2022	ND<1	173.5
	12/13/2022	ND<1	173.5
	6/21/2023	ND<1	173.5
	12/12/2023	ND<1	173.5

Rank Sum = 2082
Rank Mean = 173.5

GWC-8A	6/20/2018	3.9	358
	12/19/2018	4.2	359
	6/12/2019	2.6	354
	12/11/2019	3.7	357
	6/23/2020	2.4	351
	12/15/2020	3.2	356
	6/16/2021	2.5	352
	12/15/2021	2.3	350
	6/9/2022	2.1	348
	12/13/2022	2.5	353
	6/21/2023	ND<1	173.5
	12/13/2023	2.2	349

Rank Sum = 4060.5
Rank Mean = 338.375

GWC-8R	6/20/2018	22	395
	12/19/2018	13	379
	6/12/2019	12	376
	12/11/2019	9.3	365
	6/23/2020	13	380
	12/15/2020	12	377
	6/16/2021	16	386
	12/15/2021	11	372
	6/9/2022	8.8	361
	12/13/2022	9	362
	6/21/2023	9.8	367
	12/12/2023	8.5	360

Rank Sum = 4480
Rank Mean = 373.333

GWC-9	6/20/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/12/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/7/2022	ND<1	173.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

12/14/2022	ND<1	173.5
6/20/2023	ND<1	173.5
12/11/2023	ND<1	173.5
Rank Sum = 2082		
Rank Mean = 173.5		

GWC-16A	6/21/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/13/2019	ND<1	173.5
	12/11/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/16/2021	ND<1	173.5
	12/16/2021	ND<1	173.5
	6/9/2022	ND<1	173.5
	12/14/2022	ND<1	173.5
	6/20/2023	2	347
	12/12/2023	ND<1	173.5
Rank Sum = 2255.5			
Rank Mean = 187.958			

GWC-3	6/21/2018	ND<1	173.5
	12/17/2018	ND<1	173.5
	6/11/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/16/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/15/2021	ND<1	173.5
	6/7/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/19/2023	ND<1	173.5
Rank Sum = 1908.5			
Rank Mean = 173.5			

GWC-5	6/21/2018	ND<1	173.5
	12/18/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/23/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/15/2021	ND<1	173.5
	12/13/2021	ND<1	173.5
	6/8/2022	ND<1	173.5
	12/12/2022	ND<1	173.5
	6/20/2023	ND<1	173.5
	12/11/2023	ND<1	173.5
Rank Sum = 2082			
Rank Mean = 173.5			

GWC-6	6/21/2018	ND<1	173.5
	12/19/2018	ND<1	173.5
	6/12/2019	ND<1	173.5
	12/10/2019	ND<1	173.5
	6/24/2020	ND<1	173.5
	12/17/2020	ND<1	173.5
	6/15/2021	ND<1	173.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

12/13/2021	ND<1	173.5
6/8/2022	ND<1	173.5
12/14/2022	ND<1	173.5
6/20/2023	ND<1	173.5
12/12/2023	ND<1	173.5
Rank Sum = 2082		
Rank Mean = 173.5		

Calculation Results:

Kruskal-Wallis H Statistic = 134.883
 Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 367.395
 95% Confidence comparison value is 46.1942 at 32 degrees of freedom
134.883 > 46.1942 indicating a significant group difference at 5% significance level
367.395 > 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 173.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	173.5	0	95.1626
GWC-23	173.5	0	95.1626
GWC-23A	173.5	0	95.1626
GWA-1A	173.5	0	95.1626
GWC-10	173.5	0	95.1626
GWC-10A	173.5	0	95.1626
GWC-11	173.5	0	95.1626
GWC-12	173.5	0	95.1626
GWC-12A	173.5	0	95.1626
GWC-13	173.5	0	95.1626
GWC-15	339.292	165.792	95.1626
GWC-17	173.5	0	98.0417
GWC-18	173.5	0	95.1626
GWC-19R	173.5	0	95.1626
GWC-22	173.5	0	95.1626
GWC-24	173.5	0	95.1626
GWC-7	173.5	0	95.1626
GWC-14	173.5	0	98.0417
GWC-14A	375.833	202.333	95.1626
GWC-14R	383.333	209.833	95.1626
GWC-2	173.5	0	95.1626
GWC-3A	173.5	0	95.1626
GWC-4	173.5	0	105.335
GWC-4A	173.5	0	95.1626
GWC-8	173.5	0	95.1626
GWC-8A	338.375	164.875	95.1626
GWC-8R	373.333	199.833	95.1626
GWC-9	173.5	0	95.1626
GWC-16A	187.958	14.4583	95.1626
GWC-3	173.5	0	98.0417
GWC-5	173.5	0	95.1626
GWC-6	173.5	0	95.1626

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 173.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	173.5	0	126.411
GWC-23	173.5	0	126.411
GWC-23A	173.5	0	126.411
GWA-1A	173.5	0	126.411
GWC-10	173.5	0	126.411
GWC-10A	173.5	0	126.411
GWC-11	173.5	0	126.411
GWC-12	173.5	0	126.411
GWC-12A	173.5	0	126.411
GWC-13	173.5	0	126.411
GWC-15	339.292	165.792	126.411
GWC-17	173.5	0	130.236
GWC-18	173.5	0	126.411
GWC-19R	173.5	0	126.411
GWC-22	173.5	0	126.411
GWC-24	173.5	0	126.411
GWC-7	173.5	0	126.411
GWC-14	173.5	0	130.236
GWC-14A	375.833	202.333	126.411
GWC-14R	383.333	209.833	126.411
GWC-2	173.5	0	126.411
GWC-3A	173.5	0	126.411
GWC-4	173.5	0	139.924
GWC-4A	173.5	0	126.411
GWC-8	173.5	0	126.411
GWC-8A	338.375	164.875	126.411
GWC-8R	373.333	199.833	126.411
GWC-9	173.5	0	126.411
GWC-16A	187.958	14.4583	126.411
GWC-3	173.5	0	130.236
GWC-5	173.5	0	126.411
GWC-6	173.5	0	126.411

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	6/19/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/10/2019	ND<1	201.5
	12/9/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	12/15/2022	ND<1	201.5
	6/22/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2619.5

Rank Mean = 201.5

GWA-2	6/19/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/22/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418

Rank Mean = 201.5

Background Rank Sum = 5037.5

Background Rank Mean = 201.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/22/2020	ND<1	201.5
	12/16/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/6/2022	ND<1	201.5
	12/13/2022	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

6/20/2023	ND<1	201.5
12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-23	6/18/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/16/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/6/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-23A	6/18/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/16/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/6/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWA-1A	6/19/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/10/2019	ND<1	201.5
	12/9/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/17/2021	ND<1	201.5
	12/16/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/14/2022	ND<1	201.5
	6/22/2023	ND<1	201.5
	12/13/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-10	6/19/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/10/2019	ND<1	201.5
	12/12/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/15/2021	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

12/15/2021	ND<1	201.5
6/7/2022	ND<1	201.5
12/14/2022	ND<1	201.5
6/21/2023	ND<1	201.5
12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-10A	6/19/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/10/2019	ND<1	201.5
	12/12/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/7/2022	ND<1	201.5
	12/14/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-11	6/19/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/12/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/7/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-12	6/19/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/9/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/7/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-12A	6/19/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/9/2019	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

6/24/2020	ND<1	201.5
12/15/2020	ND<1	201.5
6/15/2021	ND<1	201.5
12/13/2021	ND<1	201.5
6/7/2022	ND<1	201.5
12/12/2022	ND<1	201.5
6/20/2023	ND<1	201.5
12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-13	6/19/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-15	6/19/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/25/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/16/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/15/2022	ND<1	201.5
	6/22/2023	ND<1	201.5
	12/13/2023	2.4	403

Rank Sum = 2619.5
Rank Mean = 218.292

GWC-17	6/19/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/14/2022	ND<1	201.5
	6/20/2023	ND<1	201.5

Rank Sum = 2216.5
Rank Mean = 201.5

GWC-18	6/19/2018	ND<1	201.5
	12/18/2018	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

6/11/2019	ND<1	201.5
12/9/2019	ND<1	201.5
6/23/2020	ND<1	201.5
12/15/2020	ND<1	201.5
6/14/2021	ND<1	201.5
12/14/2021	ND<1	201.5
6/7/2022	ND<1	201.5
12/14/2022	ND<1	201.5
6/20/2023	ND<1	201.5
12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-19R	6/19/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/9/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/6/2022	ND<1	201.5
	12/14/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/13/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-22	6/19/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/6/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-24	6/19/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/9/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/7/2022	ND<1	201.5
	12/14/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

GWC-7	6/19/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-14	6/20/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/13/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2216.5
Rank Mean = 201.5

GWC-14A	6/20/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/13/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-14R	6/20/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/16/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/13/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

Rank Sum = 2418
Rank Mean = 201.5

GWC-2	6/20/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/22/2020	ND<1	201.5
	12/16/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/7/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/19/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-3A	6/20/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/16/2020	ND<1	201.5
	6/14/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/7/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/19/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-4	6/20/2018	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/16/2021	ND<1	201.5
	12/14/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 1813.5
Rank Mean = 201.5

GWC-4A	6/20/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/17/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/14/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/13/2023	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

Rank Sum = 2418
Rank Mean = 201.5

GWC-8	6/20/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/16/2020	ND<1	201.5
	6/16/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/13/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-8A	6/20/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/16/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/13/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/13/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-8R	6/20/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/15/2020	ND<1	201.5
	6/16/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/13/2022	ND<1	201.5
	6/21/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-9	6/20/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/12/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/7/2022	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

12/14/2022	ND<1	201.5
6/20/2023	ND<1	201.5
12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-16A	6/21/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/13/2019	ND<1	201.5
	12/11/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/16/2021	ND<1	201.5
	12/16/2021	ND<1	201.5
	6/9/2022	ND<1	201.5
	12/14/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-3	6/21/2018	ND<1	201.5
	12/17/2018	ND<1	201.5
	6/11/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/16/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/15/2021	ND<1	201.5
	6/7/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/19/2023	ND<1	201.5

Rank Sum = 2216.5
Rank Mean = 201.5

GWC-5	6/21/2018	ND<1	201.5
	12/18/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/23/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/15/2021	ND<1	201.5
	12/13/2021	ND<1	201.5
	6/8/2022	ND<1	201.5
	12/12/2022	ND<1	201.5
	6/20/2023	ND<1	201.5
	12/11/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

GWC-6	6/21/2018	ND<1	201.5
	12/19/2018	ND<1	201.5
	6/12/2019	ND<1	201.5
	12/10/2019	ND<1	201.5
	6/24/2020	ND<1	201.5
	12/17/2020	ND<1	201.5
	6/15/2021	ND<1	201.5

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

12/13/2021	ND<1	201.5
6/8/2022	ND<1	201.5
12/14/2022	ND<1	201.5
6/20/2023	ND<1	201.5
12/12/2023	ND<1	201.5

Rank Sum = 2418
Rank Mean = 201.5

Calculation Results:

Kruskal-Wallis H Statistic = 0.241955
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 32.5833
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
0.241955 < 46.1942 indicating no significant group difference at 5% significance level
32.5833 < 46.1942 indicating no significant group difference at 5% significance level when adjusted for ties

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

Kruskal-Wallis Non-Parametric Test

Parameter: Barium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/20/2018	32	226
	12/18/2018	28	204
	6/11/2019	28	205
	12/10/2019	20.9	145
	6/24/2020	22.3	158
	12/18/2020	27	197
	6/16/2021	26.1	193
	12/14/2021	24.1	175
	6/9/2022	20.4	141
	12/12/2022	ND<10	68
	12/15/2022	27.7	202
	6/22/2023	23	163
	12/13/2023	29.7	210

Rank Sum = 2287
Rank Mean = 175.923

GWA-2	6/20/2018	23	164
	12/18/2018	32	227
	6/12/2019	23	165
	12/12/2019	39.5	280
	6/23/2020	20	136
	12/18/2020	22	153
	6/16/2021	24.2	177
	12/14/2021	24.9	184
	6/9/2022	22.4	159
	12/13/2022	20.6	143
	6/21/2023	22.6	160
	12/13/2023	27.5	199

Rank Sum = 2147
Rank Mean = 178.917

Background Rank Sum = 4434
Background Rank Mean = 177.36

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/19/2018	ND<10	68
	12/18/2018	ND<10	68
	6/12/2019	ND<10	68
	12/11/2019	22.9	162
	6/23/2020	ND<10	68
	12/17/2020	ND<10	68
	6/15/2021	ND<10	68
	12/15/2021	ND<10	68
	6/7/2022	ND<10	68
	12/14/2022	ND<10	68

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

	6/21/2023	ND<10	68
	12/12/2023	ND<10	68
Rank Sum = 910			
Rank Mean = 75.8333			
GWC-23	6/19/2018	ND<10	68
	12/19/2018	ND<10	68
	6/13/2019	ND<10	68
	12/12/2019	ND<10	68
	6/24/2020	ND<10	68
	12/17/2020	ND<10	68
	6/15/2021	ND<10	68
	12/14/2021	ND<10	68
	6/7/2022	ND<10	68
	12/13/2022	ND<10	68
	6/22/2023	ND<10	68
	12/12/2023	ND<10	68
Rank Sum = 816			
Rank Mean = 68			
GWC-23A	6/19/2018	ND<10	68
	12/19/2018	ND<10	68
	6/13/2019	ND<10	68
	12/12/2019	ND<10	68
	6/24/2020	ND<10	68
	12/17/2020	ND<10	68
	6/15/2021	ND<10	68
	12/14/2021	ND<10	68
	6/7/2022	ND<10	68
	12/13/2022	ND<10	68
	6/22/2023	ND<10	68
	12/12/2023	21.1	150
Rank Sum = 898			
Rank Mean = 74.8333			
GWA-1A	6/20/2018	30	212
	12/18/2018	32	228
	6/10/2019	41	287
	12/9/2019	30	213
	6/23/2020	30.3	216
	12/17/2020	31.9	225
	6/17/2021	37.4	272
	12/16/2021	32.3	229
	6/8/2022	31.8	223
	12/14/2022	34.8	248
	6/22/2023	33.8	241
	12/13/2023	40.5	284
Rank Sum = 2878			
Rank Mean = 239.833			
GWC-10	6/20/2018	ND<10	68
	12/18/2018	ND<10	68
	6/11/2019	22	154
	12/13/2019	ND<10	68
	6/25/2020	ND<10	68
	12/16/2020	ND<10	68
	6/16/2021	ND<10	68

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

	12/16/2021	ND<10	68
	6/8/2022	ND<10	68
	12/15/2022	ND<10	68
	6/22/2023	ND<10	68
	12/12/2023	29.3	208
Rank Sum = 1042			
Rank Mean = 86.8333			
GWC-10A	6/20/2018	34	242
	12/18/2018	35	250
	6/11/2019	33	234
	12/13/2019	35.2	253
	6/25/2020	29.6	209
	12/16/2020	32.5	231
	6/16/2021	31.5	220
	12/16/2021	33.5	238
	6/8/2022	31.8	224
	12/15/2022	38.6	276
	6/22/2023	30.6	218
	12/12/2023	38.1	274
Rank Sum = 2869			
Rank Mean = 239.083			
GWC-11	6/20/2018	21	146
	12/20/2018	ND<10	68
	6/13/2019	40	283
	12/13/2019	35.9	258
	6/25/2020	25.9	191
	12/16/2020	25.4	187
	6/16/2021	22.1	156
	12/14/2021	23.3	167
	6/8/2022	ND<10	68
	12/13/2022	23.2	166
	6/21/2023	ND<10	68
	12/12/2023	27.8	203
Rank Sum = 1961			
Rank Mean = 163.417			
GWC-12	6/20/2018	ND<10	68
	12/20/2018	34	243
	6/12/2019	20	137
	12/10/2019	ND<10	68
	6/25/2020	ND<10	68
	12/22/2020	22.6	161
	6/16/2021	ND<10	68
	12/14/2021	ND<10	68
	6/8/2022	ND<10	68
	12/13/2022	ND<10	68
	6/21/2023	ND<10	68
	12/13/2023	ND<10	68
Rank Sum = 1153			
Rank Mean = 96.0833			
GWC-12A	6/20/2018	ND<10	68
	12/20/2018	ND<10	68
	6/12/2019	ND<10	68
	12/10/2019	ND<10	68

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

6/25/2020	ND<10	68
12/16/2020	ND<10	68
6/16/2021	ND<10	68
12/14/2021	ND<10	68
6/8/2022	ND<10	68
12/13/2022	ND<10	68
6/21/2023	ND<10	68
12/13/2023	ND<10	68

Rank Sum = 816
Rank Mean = 68

GWC-13	6/20/2018	36	259
	12/20/2018	ND<10	68
	6/13/2019	ND<10	68
	12/12/2019	32.7	232
	6/24/2020	ND<10	68
	12/16/2020	ND<10	68
	6/16/2021	ND<10	68
	12/16/2021	ND<10	68
	6/9/2022	ND<10	68
	12/13/2022	ND<10	68
	6/21/2023	ND<10	68
	12/13/2023	21.8	152

Rank Sum = 1255
Rank Mean = 104.583

GWC-15	6/20/2018	98	345
	12/19/2018	58	316
	6/11/2019	60	317
	12/10/2019	42.3	291
	6/25/2020	62.7	318
	12/17/2020	54.7	312
	6/16/2021	69.4	322
	12/14/2021	73.4	328
	6/9/2022	70.8	324
	12/15/2022	34.4	247
	6/22/2023	24.4	180
	12/13/2023	71.7	325

Rank Sum = 3625
Rank Mean = 302.083

GWC-17	6/20/2018	34	244
	12/20/2018	69	321
	6/13/2019	43	293
	12/11/2019	37.1	269
	6/24/2020	30.9	219
	12/16/2020	40.7	285
	6/15/2021	38.3	275
	12/15/2021	39.2	279
	6/10/2022	41.1	288
	12/15/2022	36.5	264
	6/21/2023	27.6	201

Rank Sum = 2938
Rank Mean = 267.091

GWC-18	6/20/2018	280	373
	12/19/2018	140	348

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

6/12/2019	230	372
12/10/2019	181	365
6/24/2020	168	355
12/16/2020	160	350
6/15/2021	165	353
12/15/2021	141	349
6/8/2022	196	370
12/15/2022	178	361
6/21/2023	219	371
12/13/2023	192	369

Rank Sum = 4336
Rank Mean = 361.333

GWC-19R	6/20/2018	81	333
	12/19/2018	160	351
	6/12/2019	97	343
	12/10/2019	89.2	339
	6/24/2020	83	335
	12/16/2020	76.5	330
	6/15/2021	82.2	334
	12/15/2021	87	337
	6/7/2022	85.6	336
	12/15/2022	180	363
	6/21/2023	97.4	344
	12/14/2023	101	347

Rank Sum = 4092
Rank Mean = 341

GWC-22	6/20/2018	24	172
	12/19/2018	21	147
	6/13/2019	21	148
	12/12/2019	21.5	151
	6/24/2020	22.1	157
	12/18/2020	20.4	142
	6/15/2021	28	206
	12/14/2021	24.6	183
	6/7/2022	25.8	189
	12/13/2022	24.1	176
	6/21/2023	24.4	181
	12/12/2023	23.7	171

Rank Sum = 2023
Rank Mean = 168.583

GWC-24	6/20/2018	ND<10	68
	6/12/2019	20	138
	12/10/2019	27.4	198
	6/25/2020	25.8	190
	6/15/2021	ND<10	68
	6/8/2022	ND<10	68
	12/15/2022	ND<10	68
	6/21/2023	ND<10	68
	12/13/2023	ND<10	68

Rank Sum = 934
Rank Mean = 103.778

GWC-7	6/20/2018	49	302
	12/19/2018	51	305

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

6/13/2019	48	301
12/12/2019	49.9	304
6/25/2020	36.4	262
12/18/2020	38.8	277
6/16/2021	36.9	266
12/14/2021	41.8	290
6/9/2022	36.4	263
12/13/2022	35.6	255
6/21/2023	34.8	249
12/12/2023	37.1	270

Rank Sum = 3344
Rank Mean = 278.667

GWC-16A	6/21/2018	34	245
	12/20/2018	24	173
	6/13/2019	26	192
	12/12/2019	26.7	196
	6/23/2020	23.6	168
	12/17/2020	25.2	186
	6/16/2021	24.3	179
	12/16/2021	23.6	169
	6/10/2022	ND<10	68
	12/15/2022	23.6	170
	12/13/2023	26.3	194

Rank Sum = 1940
Rank Mean = 176.364

GWC-14	6/21/2018	35	251
	6/12/2019	35	252
	12/11/2019	41.2	289
	6/25/2020	ND<10	68
	12/18/2020	72.2	326
	6/16/2021	24	174
	12/16/2021	47.3	299
	6/10/2022	20.8	144
	6/22/2023	26.4	195

Rank Sum = 1998
Rank Mean = 222

GWC-14A	6/21/2018	190	368
	12/19/2018	180	364
	6/12/2019	170	356
	12/11/2019	170	357
	6/24/2020	171	358
	12/16/2020	171	359
	6/16/2021	173	360
	12/15/2021	179	362
	6/10/2022	167	354
	12/14/2022	181	366
	6/21/2023	161	352
	12/13/2023	187	367

Rank Sum = 4323
Rank Mean = 360.25

GWC-2	6/21/2018	ND<10	68
	12/20/2018	ND<10	68
	6/13/2019	ND<10	68

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

12/11/2019	ND<10	68
6/23/2020	27.5	200
12/17/2020	ND<10	68
6/16/2021	ND<10	68
12/16/2021	ND<10	68
6/8/2022	ND<10	68
12/13/2022	ND<10	68
6/20/2023	ND<10	68
12/12/2023	ND<10	68

Rank Sum = 948
Rank Mean = 79

GWC-3	6/21/2018	ND<10	68
	12/18/2018	ND<10	68
	6/12/2019	ND<10	68
	12/11/2019	ND<10	68
	6/25/2020	ND<10	68
	12/17/2020	ND<10	68
	6/16/2021	ND<10	68
	12/16/2021	ND<10	68
	6/8/2022	ND<10	68
	6/20/2023	ND<10	68

Rank Sum = 680
Rank Mean = 68

GWC-3A	6/21/2018	39	278
	12/18/2018	38	273
	6/12/2019	46	297
	12/11/2019	40.7	286
	6/25/2020	37.1	271
	12/17/2020	31.6	222
	6/15/2021	36.5	265
	12/16/2021	32.8	233
	6/8/2022	32.3	230
	12/13/2022	35.4	254
	6/20/2023	36.3	260
	12/13/2023	43.2	294

Rank Sum = 3163
Rank Mean = 263.583

GWC-4	6/21/2018	20	139
	6/24/2020	25.6	188
	12/18/2020	31.5	221
	6/17/2021	24.5	182
	12/15/2021	21	149
	6/9/2022	ND<10	68
	12/13/2022	20	140
	6/21/2023	ND<10	68
	12/13/2023	24.2	178

Rank Sum = 1333
Rank Mean = 148.111

GWC-4A	6/21/2018	22	155
	12/18/2018	25	185
	6/12/2019	74	329
	12/12/2019	ND<10	68
	6/24/2020	29.9	211

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

12/18/2020	30.5	217
6/18/2021	35.7	256
12/16/2021	ND<10	68
6/8/2022	36.3	261
12/15/2022	33	235
6/22/2023	54.6	311
12/13/2023	45.7	296

Rank Sum = 2592
Rank Mean = 216

GWC-5	6/21/2018	ND<10	68
	12/19/2018	ND<10	68
	6/13/2019	ND<10	68
	12/11/2019	ND<10	68
	6/24/2020	ND<10	68
	12/18/2020	ND<10	68
	6/16/2021	ND<10	68
	12/14/2021	ND<10	68
	6/9/2022	ND<10	68
	12/13/2022	ND<10	68
	6/21/2023	ND<10	68
	12/12/2023	ND<10	68

Rank Sum = 816
Rank Mean = 68

GWC-6	6/21/2018	37	268
	12/20/2018	ND<10	68
	6/13/2019	ND<10	68
	12/11/2019	ND<10	68
	6/25/2020	ND<10	68
	12/18/2020	ND<10	68
	6/16/2021	ND<10	68
	12/14/2021	ND<10	68
	6/9/2022	ND<10	68
	12/15/2022	ND<10	68
	6/21/2023	ND<10	68
	12/13/2023	ND<10	68

Rank Sum = 1016
Rank Mean = 84.6667

GWC-8	6/21/2018	ND<10	68
	6/13/2019	30	214
	12/12/2019	28.6	207
	6/24/2020	52.4	307
	12/17/2020	33	236
	6/17/2021	42.5	292
	12/16/2021	33.5	239
	6/10/2022	33.5	240
	12/14/2022	34	246
	6/22/2023	30	215
	12/13/2023	39.8	281

Rank Sum = 2545
Rank Mean = 231.364

GWC-8A	6/21/2018	51	306
	12/20/2018	55	313
	6/13/2019	33	237

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

12/12/2019	56	315
6/24/2020	43.9	295
12/16/2020	46.8	298
6/17/2021	52.4	308
12/16/2021	49.7	303
6/10/2022	39.9	282
12/14/2022	52.7	309
6/22/2023	36.9	267
12/14/2023	47.9	300

Rank Sum = 3533
Rank Mean = 294.417

GWC-9	6/21/2018	73	327
	12/19/2018	53	310
	6/13/2019	80	332
	12/13/2019	67.9	320
	6/25/2020	78.5	331
	12/18/2020	90	340
	6/16/2021	64.3	319
	12/14/2021	100	346
	6/8/2022	55.7	314
	12/15/2022	87.8	338
	6/21/2023	69.6	323
	12/12/2023	93.6	341

Rank Sum = 3941
Rank Mean = 328.417

GWC-14R	6/9/2022	94.1	342
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Rank Sum = 342
Rank Mean = 342

GWC-8R	6/9/2022	35.8	257
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Rank Sum = 257
Rank Mean = 257

Calculation Results:

Kruskal-Wallis H Statistic = 303.999

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 319.128

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

303.999 > 46.1942 indicating a significant group difference at 5% significance level

319.128 > 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 177.36

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	75.8333	-101.527	88.0873
GWC-23	68	-109.36	88.0873
GWC-23A	74.8333	-102.527	88.0873
GWA-1A	239.833	62.4733	88.0873
GWC-10	86.8333	-90.5267	88.0873
GWC-10A	239.083	61.7233	88.0873
GWC-11	163.417	-13.9433	88.0873
GWC-12	96.0833	-81.2767	88.0873
GWC-12A	68	-109.36	88.0873

GWC-13	104.583	-72.7767	88.0873
GWC-15	302.083	124.723	88.0873
GWC-17	267.091	89.7309	90.7524
GWC-18	361.333	183.973	88.0873
GWC-19R	341	163.64	88.0873
GWC-22	168.583	-8.77667	88.0873
GWC-24	103.778	-73.5822	97.5038
GWC-7	278.667	101.307	88.0873
GWC-16A	176.364	-0.996364	90.7524
GWC-14	222	44.64	97.5038
GWC-14A	360.25	182.89	88.0873
GWC-2	79	-98.36	88.0873
GWC-3	68	-109.36	93.8506
GWC-3A	263.583	86.2233	88.0873
GWC-4	148.111	-29.2489	97.5038
GWC-4A	216	38.64	88.0873
GWC-5	68	-109.36	88.0873
GWC-6	84.6667	-92.6933	88.0873
GWC-8	231.364	54.0036	90.7524
GWC-8A	294.417	117.057	88.0873
GWC-9	328.417	151.057	88.0873
GWC-14R	342	164.64	255.794
GWC-8R	257	79.64	255.794

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 177.36

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	75.8333	-101.527	117.013
GWC-23	68	-109.36	117.013
GWC-23A	74.8333	-102.527	117.013
GWA-1A	239.833	62.4733	117.013
GWC-10	86.8333	-90.5267	117.013
GWC-10A	239.083	61.7233	117.013
GWC-11	163.417	-13.9433	117.013
GWC-12	96.0833	-81.2767	117.013
GWC-12A	68	-109.36	117.013
GWC-13	104.583	-72.7767	117.013
GWC-15	302.083	124.723	117.013
GWC-17	267.091	89.7309	120.553
GWC-18	361.333	183.973	117.013
GWC-19R	341	163.64	117.013
GWC-22	168.583	-8.77667	117.013
GWC-24	103.778	-73.5822	129.521
GWC-7	278.667	101.307	117.013
GWC-16A	176.364	-0.996364	120.553
GWC-14	222	44.64	129.521
GWC-14A	360.25	182.89	117.013
GWC-2	79	-98.36	117.013
GWC-3	68	-109.36	124.668
GWC-3A	263.583	86.2233	117.013
GWC-4	148.111	-29.2489	129.521
GWC-4A	216	38.64	117.013
GWC-5	68	-109.36	117.013
GWC-6	84.6667	-92.6933	117.013
GWC-8	231.364	54.0036	120.553

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	6/19/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/10/2019	ND<1	188.5
	12/9/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	12/15/2022	ND<1	188.5
	6/22/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2450.5
 Rank Mean = 188.5

GWA-2	6/19/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/22/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2262
 Rank Mean = 188.5

Background Rank Sum = 4712.5
 Background Rank Mean = 188.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/22/2020	ND<1	188.5
	12/16/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/14/2021	ND<1	188.5
	6/6/2022	ND<1	188.5
	12/13/2022	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

6/20/2023	ND<1	188.5
12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-23	6/18/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/16/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/6/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-23A	6/18/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/16/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/6/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWA-1A	6/19/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/10/2019	ND<1	188.5
	12/9/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/17/2021	ND<1	188.5
	12/16/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/14/2022	ND<1	188.5
	6/22/2023	ND<1	188.5
	12/13/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-10	6/19/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/10/2019	ND<1	188.5
	12/12/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/15/2021	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

12/15/2021	ND<1	188.5
6/7/2022	ND<1	188.5
12/14/2022	ND<1	188.5
6/21/2023	ND<1	188.5
12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-10A	6/19/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/10/2019	ND<1	188.5
	12/12/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/7/2022	ND<1	188.5
	12/14/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-11	6/19/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/12/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/7/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-12	6/19/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/9/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/7/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-12A	6/19/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/9/2019	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

6/24/2020	ND<1	188.5
12/15/2020	ND<1	188.5
6/15/2021	ND<1	188.5
12/13/2021	ND<1	188.5
6/7/2022	ND<1	188.5
12/12/2022	ND<1	188.5
6/20/2023	ND<1	188.5
12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-13	6/19/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-15	6/19/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/11/2019	3.1	394
	12/10/2019	ND<1	188.5
	6/25/2020	3.6	399
	12/17/2020	3.1	395
	6/16/2021	3.9	401
	12/14/2021	3.7	400
	6/9/2022	4.2	402
	12/15/2022	ND<1	188.5
	6/22/2023	ND<1	188.5
	12/13/2023	4.9	403

Rank Sum = 3736.5
Rank Mean = 311.375

GWC-17	6/19/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/14/2021	ND<1	188.5
	6/9/2022	ND<1	188.5
	12/14/2022	ND<1	188.5
	6/20/2023	ND<1	188.5

Rank Sum = 2073.5
Rank Mean = 188.5

GWC-18	6/19/2018	ND<1	188.5
	12/18/2018	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

6/11/2019	ND<1	188.5
12/9/2019	ND<1	188.5
6/23/2020	ND<1	188.5
12/15/2020	ND<1	188.5
6/14/2021	ND<1	188.5
12/14/2021	ND<1	188.5
6/7/2022	ND<1	188.5
12/14/2022	ND<1	188.5
6/20/2023	ND<1	188.5
12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-19R	6/19/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/9/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/14/2021	ND<1	188.5
	6/6/2022	ND<1	188.5
	12/14/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/13/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-22	6/19/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/6/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-24	6/19/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/9/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/14/2021	ND<1	188.5
	6/7/2022	ND<1	188.5
	12/14/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

GWC-7	6/19/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-14	6/20/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/9/2022	ND<1	188.5
	12/13/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2073.5
Rank Mean = 188.5

GWC-14A	6/20/2018	2.8	389
	12/19/2018	2.5	383
	6/11/2019	2.1	379
	12/10/2019	2.6	386
	6/24/2020	2.5	384
	12/15/2020	2.9	392
	6/15/2021	2.6	387
	12/14/2021	3	393
	6/9/2022	2.5	385
	12/13/2022	3.3	396
	6/20/2023	2.8	390
	12/12/2023	3.4	398

Rank Sum = 4662
Rank Mean = 388.5

GWC-14R	6/20/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/16/2021	ND<1	188.5
	12/14/2021	ND<1	188.5
	6/9/2022	ND<1	188.5
	12/13/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

Rank Sum = 2262
Rank Mean = 188.5

GWC-2	6/20/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/22/2020	ND<1	188.5
	12/16/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/7/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/19/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-3A	6/20/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/16/2020	ND<1	188.5
	6/14/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/7/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/19/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-4	6/20/2018	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/16/2021	ND<1	188.5
	12/14/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 1696.5
Rank Mean = 188.5

GWC-4A	6/20/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/17/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/14/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/13/2023	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

Rank Sum = 2262
Rank Mean = 188.5

GWC-8	6/20/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/16/2020	ND<1	188.5
	6/16/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/9/2022	ND<1	188.5
	12/13/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-8A	6/20/2018	2.7	388
	12/19/2018	3.3	397
	6/12/2019	ND<1	188.5
	12/11/2019	2.8	391
	6/23/2020	ND<1	188.5
	12/15/2020	2.3	381
	6/16/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/9/2022	2	377
	12/13/2022	2.4	382
	6/21/2023	ND<1	188.5
	12/13/2023	2.2	380

Rank Sum = 3638.5
Rank Mean = 303.208

GWC-8R	6/20/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/15/2020	ND<1	188.5
	6/16/2021	2	378
	12/15/2021	ND<1	188.5
	6/9/2022	ND<1	188.5
	12/13/2022	ND<1	188.5
	6/21/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2451.5
Rank Mean = 204.292

GWC-9	6/20/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/12/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/7/2022	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

12/14/2022	ND<1	188.5
6/20/2023	ND<1	188.5
12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-16A	6/21/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/13/2019	ND<1	188.5
	12/11/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/16/2021	ND<1	188.5
	12/16/2021	ND<1	188.5
	6/9/2022	ND<1	188.5
	12/14/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-3	6/21/2018	ND<1	188.5
	12/17/2018	ND<1	188.5
	6/11/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/16/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/7/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/19/2023	ND<1	188.5

Rank Sum = 2073.5
Rank Mean = 188.5

GWC-5	6/21/2018	ND<1	188.5
	12/18/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/23/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/15/2021	ND<1	188.5
	12/13/2021	ND<1	188.5
	6/8/2022	ND<1	188.5
	12/12/2022	ND<1	188.5
	6/20/2023	ND<1	188.5
	12/11/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

GWC-6	6/21/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5
	12/10/2019	ND<1	188.5
	6/24/2020	ND<1	188.5
	12/17/2020	ND<1	188.5
	6/15/2021	ND<1	188.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

12/13/2021	ND<1	188.5
6/8/2022	ND<1	188.5
12/14/2022	ND<1	188.5
6/20/2023	ND<1	188.5
12/12/2023	ND<1	188.5

Rank Sum = 2262
Rank Mean = 188.5

Calculation Results:

Kruskal-Wallis H Statistic = 55.1768
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 293.763
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
55.1768 > 46.1942 indicating a significant group difference at 5% significance level
293.763 > 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 188.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	188.5	0	95.1626
GWC-23	188.5	0	95.1626
GWC-23A	188.5	0	95.1626
GWA-1A	188.5	0	95.1626
GWC-10	188.5	0	95.1626
GWC-10A	188.5	0	95.1626
GWC-11	188.5	0	95.1626
GWC-12	188.5	0	95.1626
GWC-12A	188.5	0	95.1626
GWC-13	188.5	0	95.1626
GWC-15	311.375	122.875	95.1626
GWC-17	188.5	0	98.0417
GWC-18	188.5	0	95.1626
GWC-19R	188.5	0	95.1626
GWC-22	188.5	0	95.1626
GWC-24	188.5	0	95.1626
GWC-7	188.5	0	95.1626
GWC-14	188.5	0	98.0417
GWC-14A	388.5	200	95.1626
GWC-14R	188.5	0	95.1626
GWC-2	188.5	0	95.1626
GWC-3A	188.5	0	95.1626
GWC-4	188.5	0	105.335
GWC-4A	188.5	0	95.1626
GWC-8	188.5	0	95.1626
GWC-8A	303.208	114.708	95.1626
GWC-8R	204.292	15.7917	95.1626
GWC-9	188.5	0	95.1626
GWC-16A	188.5	0	95.1626
GWC-3	188.5	0	98.0417
GWC-5	188.5	0	95.1626
GWC-6	188.5	0	95.1626

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

Mean background rank is 188.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	188.5	0	126.411
GWC-23	188.5	0	126.411
GWC-23A	188.5	0	126.411
GWA-1A	188.5	0	126.411
GWC-10	188.5	0	126.411
GWC-10A	188.5	0	126.411
GWC-11	188.5	0	126.411
GWC-12	188.5	0	126.411
GWC-12A	188.5	0	126.411
GWC-13	188.5	0	126.411
GWC-15	311.375	122.875	126.411
GWC-17	188.5	0	130.236
GWC-18	188.5	0	126.411
GWC-19R	188.5	0	126.411
GWC-22	188.5	0	126.411
GWC-24	188.5	0	126.411
GWC-7	188.5	0	126.411
GWC-14	188.5	0	130.236
GWC-14A	388.5	200	126.411
GWC-14R	188.5	0	126.411
GWC-2	188.5	0	126.411
GWC-3A	188.5	0	126.411
GWC-4	188.5	0	139.924
GWC-4A	188.5	0	126.411
GWC-8	188.5	0	126.411
GWC-8A	303.208	114.708	126.411
GWC-8R	204.292	15.7917	126.411
GWC-9	188.5	0	126.411
GWC-16A	188.5	0	126.411
GWC-3	188.5	0	130.236
GWC-5	188.5	0	126.411
GWC-6	188.5	0	126.411

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	6/19/2018	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
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/8/2022	ND<5	198
	12/12/2022	ND<5	198
	12/15/2022	ND<5	198
	6/22/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2574
 Rank Mean = 198

GWA-2	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
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/8/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
 Rank Mean = 198

Background Rank Sum = 4950
 Background Rank Mean = 198

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	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
	6/14/2021	ND<5	198
	12/14/2021	ND<5	198
	6/6/2022	ND<5	198
	12/13/2022	ND<5	198

	6/20/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
 Rank Mean = 198

GWC-23	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
	6/14/2021	ND<5	198
	12/13/2021	ND<5	198
	6/6/2022	ND<5	198
	12/12/2022	ND<5	198
	6/21/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
 Rank Mean = 198

GWC-23A	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
	6/14/2021	ND<5	198
	12/13/2021	ND<5	198
	6/6/2022	ND<5	198
	12/12/2022	ND<5	198
	6/21/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
 Rank Mean = 198

GWA-1A	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
	6/17/2021	ND<5	198
	12/16/2021	ND<5	198
	6/8/2022	ND<5	198
	12/14/2022	ND<5	198
	6/22/2023	ND<5	198
	12/13/2023	ND<5	198

Rank Sum = 2376
 Rank Mean = 198

GWC-10	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
	6/15/2021	ND<5	198

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

12/15/2021	ND<5	198
6/7/2022	ND<5	198
12/14/2022	ND<5	198
6/21/2023	ND<5	198
12/11/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-10A	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
	6/15/2021	ND<5	198
	12/15/2021	ND<5	198
	6/7/2022	ND<5	198
	12/14/2022	ND<5	198
	6/21/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-11	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
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/7/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-12	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
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/7/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-12A	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/11/2019	ND<5	198
	12/9/2019	ND<5	198

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

6/24/2020	ND<5	198
12/15/2020	ND<5	198
6/15/2021	ND<5	198
12/13/2021	ND<5	198
6/7/2022	ND<5	198
12/12/2022	ND<5	198
6/20/2023	ND<5	198
12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-13	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
	6/15/2021	ND<5	198
	12/15/2021	ND<5	198
	6/8/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-15	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
	6/16/2021	ND<5	198
	12/14/2021	ND<5	198
	6/9/2022	ND<5	198
	12/15/2022	ND<5	198
	6/22/2023	ND<5	198
	12/13/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-17	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
	6/14/2021	ND<5	198
	12/14/2021	ND<5	198
	6/9/2022	ND<5	198
	12/14/2022	ND<5	198
	6/20/2023	ND<5	198

Rank Sum = 2178
Rank Mean = 198

GWC-18	6/19/2018	ND<5	198
	12/18/2018	ND<5	198

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

6/11/2019	ND<5	198
12/9/2019	ND<5	198
6/23/2020	ND<5	198
12/15/2020	ND<5	198
6/14/2021	ND<5	198
12/14/2021	ND<5	198
6/7/2022	ND<5	198
12/14/2022	ND<5	198
6/20/2023	ND<5	198
12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-19R	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
	6/14/2021	ND<5	198
	12/14/2021	ND<5	198
	6/6/2022	ND<5	198
	12/14/2022	ND<5	198
	6/20/2023	ND<5	198
	12/13/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-22	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
	6/14/2021	ND<5	198
	12/13/2021	ND<5	198
	6/6/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-24	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
	6/14/2021	ND<5	198
	12/14/2021	ND<5	198
	6/7/2022	ND<5	198
	12/14/2022	ND<5	198
	6/20/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

GWC-7	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
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/8/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-14	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
	6/15/2021	ND<5	198
	12/15/2021	ND<5	198
	6/9/2022	ND<5	198
	12/13/2022	ND<5	198
	6/21/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2178
Rank Mean = 198

GWC-14A	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	402
	6/15/2021	15	400
	12/14/2021	15	401
	6/9/2022	17	403
	12/13/2022	14	399
	6/20/2023	12	397
	12/12/2023	13	398

Rank Sum = 3988
Rank Mean = 332.333

GWC-14R	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
	6/16/2021	ND<5	198
	12/14/2021	ND<5	198
	6/9/2022	ND<5	198
	12/13/2022	ND<5	198
	6/21/2023	ND<5	198
	12/12/2023	ND<5	198

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

Rank Sum = 2376
Rank Mean = 198

GWC-2	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
	6/15/2021	ND<5	198
	12/15/2021	ND<5	198
	6/7/2022	ND<5	198
	12/12/2022	ND<5	198
	6/19/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-3A	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
	6/14/2021	ND<5	198
	12/15/2021	ND<5	198
	6/7/2022	ND<5	198
	12/12/2022	ND<5	198
	6/19/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-4	6/20/2018	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
	6/16/2021	ND<5	198
	12/14/2021	ND<5	198
	6/8/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 1782
Rank Mean = 198

GWC-4A	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
	6/17/2021	ND<5	198
	12/15/2021	ND<5	198
	6/8/2022	ND<5	198
	12/14/2022	ND<5	198
	6/21/2023	ND<5	198
	12/13/2023	ND<5	198

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

Rank Sum = 2376
Rank Mean = 198

GWC-8	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
	6/16/2021	ND<5	198
	12/15/2021	ND<5	198
	6/9/2022	ND<5	198
	12/13/2022	ND<5	198
	6/21/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-8A	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
	6/16/2021	ND<5	198
	12/15/2021	ND<5	198
	6/9/2022	ND<5	198
	12/13/2022	ND<5	198
	6/21/2023	ND<5	198
	12/13/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-8R	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
	6/16/2021	ND<5	198
	12/15/2021	ND<5	198
	6/9/2022	ND<5	198
	12/13/2022	ND<5	198
	6/21/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-9	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
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/7/2022	ND<5	198

Forsyth County- Hightower Road Landfill - Phase II-IV				Chlorobenzene
	12/14/2022	ND<5	198	
	6/20/2023	ND<5	198	
	12/11/2023	ND<5	198	
Rank Sum = 2376				
Rank Mean = 198				

GWC-16A	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
	6/16/2021	ND<5	198
	12/16/2021	ND<5	198
	6/9/2022	ND<5	198
	12/14/2022	ND<5	198
	6/20/2023	ND<5	198
	12/12/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-3	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
	6/15/2021	ND<5	198
	12/15/2021	ND<5	198
	6/7/2022	ND<5	198
	12/12/2022	ND<5	198
	6/19/2023	ND<5	198

Rank Sum = 2178
Rank Mean = 198

GWC-5	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
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/8/2022	ND<5	198
	12/12/2022	ND<5	198
	6/20/2023	ND<5	198
	12/11/2023	ND<5	198

Rank Sum = 2376
Rank Mean = 198

GWC-6	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
	6/15/2021	ND<5	198

Forsyth County- Hightower Road Landfill - Phase II-IV				Chlorobenzene
	12/13/2021	ND<5	198	
	6/8/2022	ND<5	198	
	12/14/2022	ND<5	198	
	6/20/2023	ND<5	198	
	12/12/2023	ND<5	198	

Rank Sum = 2376
Rank Mean = 198

Calculation Results:

Kruskal-Wallis H Statistic = 15.4851

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 265.251

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

15.4851 < 46.1942 indicating no significant group difference at 5% significance level

265.251 > 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	95.1626
GWC-23	198	0	95.1626
GWC-23A	198	0	95.1626
GWA-1A	198	0	95.1626
GWC-10	198	0	95.1626
GWC-10A	198	0	95.1626
GWC-11	198	0	95.1626
GWC-12	198	0	95.1626
GWC-12A	198	0	95.1626
GWC-13	198	0	95.1626
GWC-15	198	0	95.1626
GWC-17	198	0	98.0417
GWC-18	198	0	95.1626
GWC-19R	198	0	95.1626
GWC-22	198	0	95.1626
GWC-24	198	0	95.1626
GWC-7	198	0	95.1626
GWC-14	198	0	98.0417
GWC-14A	332.333	134.333	95.1626
GWC-14R	198	0	95.1626
GWC-2	198	0	95.1626
GWC-3A	198	0	95.1626
GWC-4	198	0	105.335
GWC-4A	198	0	95.1626
GWC-8	198	0	95.1626
GWC-8A	198	0	95.1626
GWC-8R	198	0	95.1626
GWC-9	198	0	95.1626
GWC-16A	198	0	95.1626
GWC-3	198	0	98.0417
GWC-5	198	0	95.1626
GWC-6	198	0	95.1626

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	126.411
GWC-23	198	0	126.411
GWC-23A	198	0	126.411
GWA-1A	198	0	126.411
GWC-10	198	0	126.411
GWC-10A	198	0	126.411
GWC-11	198	0	126.411
GWC-12	198	0	126.411
GWC-12A	198	0	126.411
GWC-13	198	0	126.411
GWC-15	198	0	126.411
GWC-17	198	0	130.236
GWC-18	198	0	126.411
GWC-19R	198	0	126.411
GWC-22	198	0	126.411
GWC-24	198	0	126.411
GWC-7	198	0	126.411
GWC-14	198	0	130.236
GWC-14A	332.333	134.333	126.411
GWC-14R	198	0	126.411
GWC-2	198	0	126.411
GWC-3A	198	0	126.411
GWC-4	198	0	139.924
GWC-4A	198	0	126.411
GWC-8	198	0	126.411
GWC-8A	198	0	126.411
GWC-8R	198	0	126.411
GWC-9	198	0	126.411
GWC-16A	198	0	126.411
GWC-3	198	0	130.236
GWC-5	198	0	126.411
GWC-6	198	0	126.411

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	6/19/2018	ND<1	196
	12/17/2018	ND<1	196
	6/10/2019	ND<1	196
	12/9/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	12/15/2022	ND<1	196
	6/22/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2548
 Rank Mean = 196

GWA-2	6/19/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/11/2019	ND<1	196
	6/22/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
 Rank Mean = 196

Background Rank Sum = 4900
 Background Rank Mean = 196

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/22/2020	ND<1	196
	12/16/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/6/2022	ND<1	196
	12/13/2022	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

6/20/2023 ND<1 196
12/11/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWC-23 6/18/2018 ND<1 196
12/18/2018 ND<1 196
6/12/2019 ND<1 196
12/11/2019 ND<1 196
6/24/2020 ND<1 196
12/16/2020 ND<1 196
6/14/2021 ND<1 196
12/13/2021 ND<1 196
6/6/2022 ND<1 196
12/12/2022 ND<1 196
6/21/2023 ND<1 196
12/11/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWC-23A 6/18/2018 ND<1 196
12/18/2018 ND<1 196
6/12/2019 ND<1 196
12/11/2019 ND<1 196
6/24/2020 ND<1 196
12/16/2020 ND<1 196
6/14/2021 ND<1 196
12/13/2021 ND<1 196
6/6/2022 ND<1 196
12/12/2022 ND<1 196
6/21/2023 ND<1 196
12/11/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWA-1A 6/19/2018 ND<1 196
12/18/2018 ND<1 196
6/10/2019 ND<1 196
12/9/2019 ND<1 196
6/23/2020 ND<1 196
12/17/2020 ND<1 196
6/17/2021 ND<1 196
12/16/2021 ND<1 196
6/8/2022 ND<1 196
12/14/2022 ND<1 196
6/22/2023 ND<1 196
12/13/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWC-10 6/19/2018 ND<1 196
12/17/2018 ND<1 196
6/10/2019 ND<1 196
12/12/2019 ND<1 196
6/24/2020 ND<1 196
12/15/2020 ND<1 196
6/15/2021 ND<1 196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

12/15/2021 ND<1 196
6/7/2022 ND<1 196
12/14/2022 ND<1 196
6/21/2023 ND<1 196
12/11/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWC-10A 6/19/2018 ND<1 196
12/17/2018 ND<1 196
6/10/2019 ND<1 196
12/12/2019 ND<1 196
6/24/2020 ND<1 196
12/15/2020 ND<1 196
6/15/2021 ND<1 196
12/15/2021 ND<1 196
6/7/2022 ND<1 196
12/14/2022 ND<1 196
6/21/2023 ND<1 196
12/11/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWC-11 6/19/2018 ND<1 196
12/19/2018 ND<1 196
6/12/2019 ND<1 196
12/12/2019 ND<1 196
6/24/2020 ND<1 196
12/15/2020 ND<1 196
6/15/2021 ND<1 196
12/13/2021 ND<1 196
6/7/2022 ND<1 196
12/12/2022 ND<1 196
6/20/2023 ND<1 196
12/11/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWC-12 6/19/2018 ND<1 196
12/19/2018 ND<1 196
6/11/2019 ND<1 196
12/9/2019 ND<1 196
6/24/2020 ND<1 196
12/15/2020 ND<1 196
6/15/2021 ND<1 196
12/13/2021 ND<1 196
6/7/2022 ND<1 196
12/12/2022 ND<1 196
6/20/2023 ND<1 196
12/12/2023 ND<1 196

Rank Sum = 2352
Rank Mean = 196

GWC-12A 6/19/2018 ND<1 196
12/19/2018 ND<1 196
6/11/2019 ND<1 196
12/9/2019 ND<1 196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

6/24/2020	ND<1	196
12/15/2020	ND<1	196
6/15/2021	ND<1	196
12/13/2021	ND<1	196
6/7/2022	ND<1	196
12/12/2022	ND<1	196
6/20/2023	ND<1	196
12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-13	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-15	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/25/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/14/2021	ND<1	196
	6/9/2022	ND<1	196
	12/15/2022	ND<1	196
	6/22/2023	ND<1	196
	12/13/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-17	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/9/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196

Rank Sum = 2156
Rank Mean = 196

GWC-18	6/19/2018	ND<1	196
	12/18/2018	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

6/11/2019	ND<1	196
12/9/2019	ND<1	196
6/23/2020	ND<1	196
12/15/2020	ND<1	196
6/14/2021	ND<1	196
12/14/2021	ND<1	196
6/7/2022	ND<1	196
12/14/2022	ND<1	196
6/20/2023	ND<1	196
12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-19R	6/19/2018	ND<1	196
	12/18/2018	ND<1	196
	6/11/2019	ND<1	196
	12/9/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/6/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196
	12/13/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-22	6/19/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/14/2021	ND<1	196
	12/13/2021	ND<1	196
	6/6/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-24	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/11/2019	ND<1	196
	12/9/2019	ND<1	196
	6/24/2020	ND<1	196
	12/15/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/7/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

GWC-7	6/19/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-14	6/20/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2156
Rank Mean = 196

GWC-14A	6/20/2018	8.5	403
	12/19/2018	5.4	401
	6/11/2019	4.4	399
	12/10/2019	3.6	396
	6/24/2020	3.3	394
	12/15/2020	4.2	398
	6/15/2021	3	393
	12/14/2021	5	400
	6/9/2022	3.7	397
	12/13/2022	3.4	395
	6/20/2023	2.4	392
	12/12/2023	5.5	402

Rank Sum = 4770
Rank Mean = 397.5

GWC-14R	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/14/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

Rank Sum = 2352
Rank Mean = 196

GWC-2	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/22/2020	ND<1	196
	12/16/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/19/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-3A	6/20/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/16/2020	ND<1	196
	6/14/2021	ND<1	196
	12/15/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/19/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-4	6/20/2018	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/14/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 1764
Rank Mean = 196

GWC-4A	6/20/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/17/2021	ND<1	196
	12/15/2021	ND<1	196
	6/8/2022	ND<1	196
	12/14/2022	ND<1	196
	6/21/2023	ND<1	196
	12/13/2023	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

Rank Sum = 2352
Rank Mean = 196

GWC-8	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/16/2020	ND<1	196
	6/16/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-8A	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/16/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/13/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-8R	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/16/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-9	6/20/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/12/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/7/2022	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

12/14/2022	ND<1	196
6/20/2023	ND<1	196
12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-16A	6/21/2018	ND<1	196
	12/19/2018	ND<1	196
	6/13/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/16/2021	ND<1	196
	6/9/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-3	6/21/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/16/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/19/2023	ND<1	196

Rank Sum = 2156
Rank Mean = 196

GWC-5	6/21/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-6	6/21/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

12/13/2021	ND<1	196
6/8/2022	ND<1	196
12/14/2022	ND<1	196
6/20/2023	ND<1	196
12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

Calculation Results:

Kruskal-Wallis H Statistic = 34.8416
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 401.878
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
34.8416 < 46.1942 indicating no significant group difference at 5% significance level
401.878 > 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 196

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	196	0	95.1626
GWC-23	196	0	95.1626
GWC-23A	196	0	95.1626
GWA-1A	196	0	95.1626
GWC-10	196	0	95.1626
GWC-10A	196	0	95.1626
GWC-11	196	0	95.1626
GWC-12	196	0	95.1626
GWC-12A	196	0	95.1626
GWC-13	196	0	95.1626
GWC-15	196	0	95.1626
GWC-17	196	0	98.0417
GWC-18	196	0	95.1626
GWC-19R	196	0	95.1626
GWC-22	196	0	95.1626
GWC-24	196	0	95.1626
GWC-7	196	0	95.1626
GWC-14	196	0	98.0417
GWC-14A	397.5	201.5	95.1626
GWC-14R	196	0	95.1626
GWC-2	196	0	95.1626
GWC-3A	196	0	95.1626
GWC-4	196	0	105.335
GWC-4A	196	0	95.1626
GWC-8	196	0	95.1626
GWC-8A	196	0	95.1626
GWC-8R	196	0	95.1626
GWC-9	196	0	95.1626
GWC-16A	196	0	95.1626
GWC-3	196	0	98.0417
GWC-5	196	0	95.1626
GWC-6	196	0	95.1626

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

Mean background rank is 196

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	196	0	126.411
GWC-23	196	0	126.411
GWC-23A	196	0	126.411
GWA-1A	196	0	126.411
GWC-10	196	0	126.411
GWC-10A	196	0	126.411
GWC-11	196	0	126.411
GWC-12	196	0	126.411
GWC-12A	196	0	126.411
GWC-13	196	0	126.411
GWC-15	196	0	126.411
GWC-17	196	0	130.236
GWC-18	196	0	126.411
GWC-19R	196	0	126.411
GWC-22	196	0	126.411
GWC-24	196	0	126.411
GWC-7	196	0	126.411
GWC-14	196	0	130.236
GWC-14A	397.5	201.5	126.411
GWC-14R	196	0	126.411
GWC-2	196	0	126.411
GWC-3A	196	0	126.411
GWC-4	196	0	139.924
GWC-4A	196	0	126.411
GWC-8	196	0	126.411
GWC-8A	196	0	126.411
GWC-8R	196	0	126.411
GWC-9	196	0	126.411
GWC-16A	196	0	126.411
GWC-3	196	0	130.236
GWC-5	196	0	126.411
GWC-6	196	0	126.411

Kruskal-Wallis Non-Parametric Test

Parameter: Chromium
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/20/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/11/2019	ND<5	185.5
	12/10/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/9/2022	ND<5	185.5
	12/12/2022	ND<5	185.5
	12/15/2022	ND<5	185.5
	6/22/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2411.5
 Rank Mean = 185.5

GWA-2	6/20/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/12/2019	ND<5	185.5
	6/23/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/9/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
 Rank Mean = 185.5

Background Rank Sum = 4637.5
 Background Rank Mean = 185.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/19/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/23/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	12/15/2021	ND<5	185.5
	6/7/2022	ND<5	185.5
	12/14/2022	ND<5	185.5

	6/21/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
 Rank Mean = 185.5

GWC-23	6/19/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/12/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/7/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/22/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
 Rank Mean = 185.5

GWC-23A	6/19/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/12/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/7/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/22/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
 Rank Mean = 185.5

GWA-1A	6/20/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/10/2019	ND<5	185.5
	12/9/2019	ND<5	185.5
	6/23/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/17/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/8/2022	ND<5	185.5
	12/14/2022	ND<5	185.5
	6/22/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
 Rank Mean = 185.5

GWC-10	6/20/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/11/2019	ND<5	185.5
	12/13/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/16/2020	ND<5	185.5
	6/16/2021	ND<5	185.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

12/16/2021	ND<5	185.5
6/8/2022	ND<5	185.5
12/15/2022	ND<5	185.5
6/22/2023	ND<5	185.5
12/12/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-10A	6/20/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/11/2019	ND<5	185.5
	12/13/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/16/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/8/2022	ND<5	185.5
	12/15/2022	ND<5	185.5
	6/22/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-11	6/20/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/13/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/16/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/8/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-12	6/20/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/10/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/22/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/8/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-12A	6/20/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/10/2019	ND<5	185.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

6/25/2020	ND<5	185.5
12/16/2020	ND<5	185.5
6/16/2021	ND<5	185.5
12/14/2021	18.4	371
6/8/2022	ND<5	185.5
12/13/2022	ND<5	185.5
6/21/2023	ND<5	185.5
12/13/2023	ND<5	185.5

Rank Sum = 2411.5
Rank Mean = 200.958

GWC-13	6/20/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/12/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/16/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/9/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-15	6/20/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/11/2019	ND<5	185.5
	12/10/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/9/2022	ND<5	185.5
	12/15/2022	ND<5	185.5
	6/22/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-17	6/20/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/16/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	12/15/2021	ND<5	185.5
	6/10/2022	ND<10	185.5
	12/15/2022	ND<5	185.5
	6/21/2023	ND<5	185.5

Rank Sum = 2040.5
Rank Mean = 185.5

GWC-18	6/20/2018	ND<5	185.5
	12/19/2018	ND<5	185.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

6/12/2019	ND<5	185.5
12/10/2019	ND<5	185.5
6/24/2020	ND<5	185.5
12/16/2020	ND<5	185.5
6/15/2021	ND<5	185.5
12/15/2021	ND<5	185.5
6/8/2022	ND<10	185.5
12/15/2022	ND<5	185.5
6/21/2023	ND<5	185.5
12/13/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-19R	6/20/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/10/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/16/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	12/15/2021	ND<5	185.5
	6/7/2022	ND<10	185.5
	12/15/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/14/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-22	6/20/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/12/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/7/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-24	6/20/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/10/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	6/8/2022	ND<10	185.5
	12/15/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 1669.5
Rank Mean = 185.5

GWC-7	6/20/2018	ND<5	185.5
	12/19/2018	ND<5	185.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

6/13/2019	ND<5	185.5
12/12/2019	ND<5	185.5
6/25/2020	ND<5	185.5
12/18/2020	ND<5	185.5
6/16/2021	ND<5	185.5
12/14/2021	ND<5	185.5
6/9/2022	ND<5	185.5
12/13/2022	ND<5	185.5
6/21/2023	ND<5	185.5
12/12/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-16A	6/21/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/12/2019	ND<5	185.5
	6/23/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/10/2022	ND<10	185.5
	12/15/2022	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2040.5
Rank Mean = 185.5

GWC-14	6/21/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/10/2022	ND<5	185.5
	6/22/2023	ND<5	185.5

Rank Sum = 1669.5
Rank Mean = 185.5

GWC-14A	6/21/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/16/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/15/2021	ND<5	185.5
	6/10/2022	ND<5	185.5
	12/14/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-2	6/21/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/13/2019	ND<5	185.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

12/11/2019	ND<5	185.5
6/23/2020	ND<5	185.5
12/17/2020	ND<5	185.5
6/16/2021	ND<5	185.5
12/16/2021	ND<5	185.5
6/8/2022	18.5	372
12/13/2022	ND<5	185.5
6/20/2023	ND<5	185.5
12/12/2023	ND<5	185.5

Rank Sum = 2412.5
Rank Mean = 201.042

GWC-3	6/21/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/8/2022	ND<5	185.5
	6/20/2023	ND<5	185.5

Rank Sum = 1855
Rank Mean = 185.5

GWC-3A	6/21/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/12/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/15/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/8/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/20/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-4	6/21/2018	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/17/2021	ND<5	185.5
	12/15/2021	ND<5	185.5
	6/9/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 1669.5
Rank Mean = 185.5

GWC-4A	6/21/2018	ND<5	185.5
	12/18/2018	ND<5	185.5
	6/12/2019	26	373
	12/12/2019	ND<5	185.5
	6/24/2020	ND<5	185.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

12/18/2020	ND<5	185.5
6/18/2021	ND<5	185.5
12/16/2021	ND<5	185.5
6/8/2022	ND<5	185.5
12/15/2022	ND<5	185.5
6/22/2023	ND<5	185.5
12/13/2023	ND<5	185.5

Rank Sum = 2413.5
Rank Mean = 201.125

GWC-5	6/21/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/9/2022	ND<5	185.5
	12/13/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-6	6/21/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/11/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/9/2022	ND<5	185.5
	12/15/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-8	6/21/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/12/2019	ND<5	185.5
	6/24/2020	ND<5	185.5
	12/17/2020	ND<5	185.5
	6/17/2021	ND<5	185.5
	12/16/2021	ND<5	185.5
	6/10/2022	ND<5	185.5
	12/14/2022	ND<5	185.5
	6/22/2023	ND<5	185.5
	12/13/2023	ND<5	185.5

Rank Sum = 2040.5
Rank Mean = 185.5

GWC-8A	6/21/2018	ND<5	185.5
	12/20/2018	ND<5	185.5
	6/13/2019	ND<5	185.5

12/12/2019	ND<5	185.5
6/24/2020	ND<5	185.5
12/16/2020	ND<5	185.5
6/17/2021	ND<5	185.5
12/16/2021	ND<5	185.5
6/10/2022	ND<5	185.5
12/14/2022	ND<5	185.5
6/22/2023	ND<5	185.5
12/14/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-9	6/21/2018	ND<5	185.5
	12/19/2018	ND<5	185.5
	6/13/2019	ND<5	185.5
	12/13/2019	ND<5	185.5
	6/25/2020	ND<5	185.5
	12/18/2020	ND<5	185.5
	6/16/2021	ND<5	185.5
	12/14/2021	ND<5	185.5
	6/8/2022	ND<5	185.5
	12/15/2022	ND<5	185.5
	6/21/2023	ND<5	185.5
	12/12/2023	ND<5	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-14R	6/9/2022	ND<5	185.5
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Rank Sum = 185.5
Rank Mean = 185.5

GWC-8R	6/9/2022	ND<5	185.5
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Rank Sum = 185.5
Rank Mean = 185.5

Calculation Results:

Kruskal-Wallis H Statistic = 0.675816
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 28.2352
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
0.675816 < 46.1942 indicating no significant group difference at 5% significance level
28.2352 < 46.1942 indicating no significant group difference at 5% significance level when adjusted for ties

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	6/19/2018	ND<1	148
	12/17/2018	ND<1	148
	6/10/2019	ND<1	148
	12/9/2019	ND<1	148
	6/23/2020	ND<1	148
	12/17/2020	ND<1	148
	6/15/2021	ND<1	148
	12/13/2021	ND<1	148
	6/8/2022	ND<1	148
	12/12/2022	ND<1	148
	12/15/2022	ND<1	148
	6/22/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 1924
Rank Mean = 148

GWA-2	6/19/2018	ND<1	148
	12/17/2018	ND<1	148
	6/11/2019	ND<1	148
	12/11/2019	ND<1	148
	6/22/2020	ND<1	148
	12/17/2020	ND<1	148
	6/15/2021	ND<1	148
	12/13/2021	ND<1	148
	6/8/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

Background Rank Sum = 3700
Background Rank Mean = 148

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	148
	12/17/2018	ND<1	148
	6/11/2019	ND<1	148
	12/10/2019	ND<1	148
	6/22/2020	ND<1	148
	12/16/2020	ND<1	148
	6/14/2021	ND<1	148
	12/14/2021	ND<1	148
	6/6/2022	ND<1	148
	12/13/2022	ND<1	148

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

	6/20/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-23	6/18/2018	ND<1	148
	12/18/2018	ND<1	148
	6/12/2019	ND<1	148
	12/11/2019	ND<1	148
	6/24/2020	ND<1	148
	12/16/2020	ND<1	148
	6/14/2021	ND<1	148
	12/13/2021	ND<1	148
	6/6/2022	ND<1	148
	12/12/2022	ND<1	148
	6/21/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-23A	6/18/2018	ND<1	148
	12/18/2018	ND<1	148
	6/12/2019	ND<1	148
	12/11/2019	ND<1	148
	6/24/2020	ND<1	148
	12/16/2020	ND<1	148
	6/14/2021	ND<1	148
	12/13/2021	ND<1	148
	6/6/2022	ND<1	148
	12/12/2022	ND<1	148
	6/21/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWA-1A	6/19/2018	ND<1	148
	12/18/2018	ND<1	148
	6/10/2019	ND<1	148
	12/9/2019	ND<1	148
	6/23/2020	ND<1	148
	12/17/2020	ND<1	148
	6/17/2021	ND<1	148
	12/16/2021	ND<1	148
	6/8/2022	ND<1	148
	12/14/2022	ND<1	148
	6/22/2023	ND<1	148
	12/13/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-10	6/19/2018	ND<1	148
	12/17/2018	ND<1	148
	6/10/2019	ND<1	148
	12/12/2019	ND<1	148
	6/24/2020	ND<1	148
	12/15/2020	ND<1	148
	6/15/2021	ND<1	148

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

	12/15/2021	ND<1	148
	6/7/2022	ND<1	148
	12/14/2022	ND<1	148
	6/21/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-10A	6/19/2018	ND<1	148
	12/17/2018	ND<1	148
	6/10/2019	ND<1	148
	12/12/2019	ND<1	148
	6/24/2020	ND<1	148
	12/15/2020	ND<1	148
	6/15/2021	ND<1	148
	12/15/2021	ND<1	148
	6/7/2022	ND<1	148
	12/14/2022	ND<1	148
	6/21/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-11	6/19/2018	ND<1	148
	12/19/2018	ND<1	148
	6/12/2019	ND<1	148
	12/12/2019	ND<1	148
	6/24/2020	ND<1	148
	12/15/2020	ND<1	148
	6/15/2021	ND<1	148
	12/13/2021	ND<1	148
	6/7/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-12	6/19/2018	ND<1	148
	12/19/2018	ND<1	148
	6/11/2019	ND<1	148
	12/9/2019	ND<1	148
	6/24/2020	ND<1	148
	12/15/2020	ND<1	148
	6/15/2021	ND<1	148
	12/13/2021	ND<1	148
	6/7/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-12A	6/19/2018	ND<1	148
	12/19/2018	ND<1	148
	6/11/2019	ND<1	148
	12/9/2019	ND<1	148

Forsyth County- Hightower Road Landfill - Phase II-IV		cis-1,2-Dichloroethene	
6/24/2020	ND<1	148	
12/15/2020	ND<1	148	
6/15/2021	ND<1	148	
12/13/2021	ND<1	148	
6/7/2022	ND<1	148	
12/12/2022	ND<1	148	
6/20/2023	ND<1	148	
12/12/2023	ND<1	148	

Rank Sum = 1776
Rank Mean = 148

GWC-13	6/19/2018	ND<1	148
	12/19/2018	ND<1	148
	6/12/2019	ND<1	148
	12/11/2019	ND<1	148
	6/23/2020	ND<1	148
	12/15/2020	ND<1	148
	6/15/2021	ND<1	148
	12/15/2021	ND<1	148
	6/8/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-15	6/19/2018	2	296
	12/19/2018	2.9	308
	6/11/2019	97	397
	12/10/2019	51	385
	6/25/2020	110	398
	12/17/2020	110	399
	6/16/2021	130	400
	12/14/2021	140	401
	6/9/2022	150	402
	12/15/2022	ND<1	148
	6/22/2023	ND<1	148
	12/13/2023	170	403

Rank Sum = 4085
Rank Mean = 340.417

GWC-17	6/19/2018	4.7	318
	12/19/2018	8.7	330
	6/12/2019	ND<1	148
	12/10/2019	15	342
	6/23/2020	ND<1	148
	12/15/2020	22	351
	6/14/2021	2.2	300
	12/14/2021	7.6	325
	6/9/2022	5.4	321
	12/14/2022	2.1	297
	6/20/2023	ND<1	148

Rank Sum = 3028
Rank Mean = 275.273

GWC-18	6/19/2018	7.7	326
	12/18/2018	12	339

Forsyth County- Hightower Road Landfill - Phase II-IV		cis-1,2-Dichloroethene	
6/11/2019	14	341	
12/9/2019	30	375	
6/23/2020	10	334	
12/15/2020	26	365	
6/14/2021	6.2	323	
12/14/2021	10	335	
6/7/2022	13	340	
12/14/2022	20	346	
6/20/2023	11	336	
12/12/2023	26	366	

Rank Sum = 4126
Rank Mean = 343.833

GWC-19R	6/19/2018	5.1	319
	12/18/2018	2.9	309
	6/11/2019	7.7	327
	12/9/2019	11	337
	6/23/2020	7.2	324
	12/15/2020	7.9	328
	6/14/2021	5.3	320
	12/14/2021	7.9	329
	6/6/2022	4	315
	12/14/2022	9.9	333
	6/20/2023	3	310
	12/13/2023	11	338

Rank Sum = 3889
Rank Mean = 324.083

GWC-22	6/19/2018	ND<1	148
	12/18/2018	ND<1	148
	6/12/2019	ND<1	148
	12/11/2019	ND<1	148
	6/23/2020	ND<1	148
	12/17/2020	ND<1	148
	6/14/2021	ND<1	148
	12/13/2021	ND<1	148
	6/6/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-24	6/19/2018	2.2	301
	12/19/2018	3.7	314
	6/11/2019	4.4	317
	12/9/2019	6.1	322
	6/24/2020	3	311
	12/15/2020	3.5	313
	6/14/2021	ND<1	148
	12/14/2021	ND<1	148
	6/7/2022	ND<1	148
	12/14/2022	ND<1	148
	6/20/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 2766
Rank Mean = 230.5

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

GWC-7	6/19/2018	ND<1	148
	12/18/2018	ND<1	148
	6/12/2019	ND<1	148
	12/11/2019	ND<1	148
	6/24/2020	ND<1	148
	12/17/2020	ND<1	148
	6/15/2021	ND<1	148
	12/13/2021	ND<1	148
	6/8/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-14	6/20/2018	ND<1	148
	6/11/2019	ND<1	148
	12/10/2019	ND<1	148
	6/24/2020	ND<1	148
	12/17/2020	ND<1	148
	6/15/2021	ND<1	148
	12/15/2021	ND<1	148
	6/9/2022	ND<1	148
	12/13/2022	ND<1	148
	6/21/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 1628
Rank Mean = 148

GWC-14A	6/20/2018	71	393
	12/19/2018	53	386
	6/11/2019	46	384
	12/10/2019	65	391
	6/24/2020	62	390
	12/15/2020	69	392
	6/15/2021	59	389
	12/14/2021	77	394
	6/9/2022	54	387
	12/13/2022	86	396
	6/20/2023	54	388
	12/12/2023	82	395

Rank Sum = 4685
Rank Mean = 390.417

GWC-14R	6/20/2018	24	357
	12/19/2018	17	343
	6/12/2019	21	348
	12/10/2019	19	345
	6/23/2020	26	367
	12/17/2020	28	371
	6/16/2021	26	368
	12/14/2021	24	358
	6/9/2022	21	349
	12/13/2022	22	352
	6/21/2023	20	347
	12/12/2023	23	354

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

Rank Sum = 4259
Rank Mean = 354.917

GWC-2	6/20/2018	ND<1	148
	12/19/2018	ND<1	148
	6/12/2019	ND<1	148
	12/10/2019	ND<1	148
	6/22/2020	ND<1	148
	12/16/2020	ND<1	148
	6/15/2021	ND<1	148
	12/15/2021	ND<1	148
	6/7/2022	ND<1	148
	12/12/2022	ND<1	148
	6/19/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-3A	6/20/2018	ND<1	148
	12/17/2018	ND<1	148
	6/11/2019	ND<1	148
	12/10/2019	ND<1	148
	6/24/2020	ND<1	148
	12/16/2020	ND<1	148
	6/14/2021	ND<1	148
	12/15/2021	ND<1	148
	6/7/2022	ND<1	148
	12/12/2022	ND<1	148
	6/19/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-4	6/20/2018	ND<1	148
	6/23/2020	ND<1	148
	12/17/2020	ND<1	148
	6/16/2021	ND<1	148
	12/14/2021	ND<1	148
	6/8/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/12/2023	ND<1	148

Rank Sum = 1332
Rank Mean = 148

GWC-4A	6/20/2018	ND<1	148
	12/17/2018	ND<1	148
	6/11/2019	ND<1	148
	12/11/2019	ND<1	148
	6/23/2020	ND<1	148
	12/17/2020	ND<1	148
	6/17/2021	ND<1	148
	12/15/2021	ND<1	148
	6/8/2022	ND<1	148
	12/14/2022	ND<1	148
	6/21/2023	ND<1	148
	12/13/2023	ND<1	148

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

Rank Sum = 1776
Rank Mean = 148

GWC-8	6/20/2018	2.6	305
	12/19/2018	4.3	316
	6/12/2019	ND<1	148
	12/11/2019	2.8	307
	6/23/2020	ND<1	148
	12/16/2020	ND<1	148
	6/16/2021	ND<1	148
	12/15/2021	ND<1	148
	6/9/2022	ND<1	148
	12/13/2022	3.4	312
	6/21/2023	2.7	306
	12/12/2023	9.1	332

Rank Sum = 2766
Rank Mean = 230.5

GWC-8A	6/20/2018	32	379
	12/19/2018	31	377
	6/12/2019	22	353
	12/11/2019	33	381
	6/23/2020	23	355
	12/15/2020	31	378
	6/16/2021	24	359
	12/15/2021	24	360
	6/9/2022	27	369
	12/13/2022	35	383
	6/21/2023	23	356
	12/13/2023	33	382

Rank Sum = 4432
Rank Mean = 369.333

GWC-8R	6/20/2018	24	361
	12/19/2018	18	344
	6/12/2019	21	350
	12/11/2019	24	362
	6/23/2020	27	370
	12/15/2020	30	376
	6/16/2021	32	380
	12/15/2021	24	363
	6/9/2022	24	364
	12/13/2022	29	373
	6/21/2023	28	372
	12/12/2023	29	374

Rank Sum = 4389
Rank Mean = 365.75

GWC-9	6/20/2018	ND<1	148
	12/18/2018	ND<1	148
	6/12/2019	ND<1	148
	12/12/2019	ND<1	148
	6/24/2020	ND<1	148
	12/17/2020	ND<1	148
	6/15/2021	ND<1	148
	12/13/2021	ND<1	148
	6/7/2022	ND<1	148

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12/14/2022	ND<1	148
6/20/2023	ND<1	148
12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-16A	6/21/2018	ND<1	148
	12/19/2018	2.5	304
	6/13/2019	ND<1	148
	12/11/2019	2.1	298
	6/23/2020	2.2	302
	12/17/2020	2.3	303
	6/16/2021	2.1	299
	12/16/2021	ND<1	148
	6/9/2022	ND<1	148
	12/14/2022	ND<1	148
	6/20/2023	9	331
	12/12/2023	ND<1	148

Rank Sum = 2725
Rank Mean = 227.083

GWC-3	6/21/2018	ND<1	148
	12/17/2018	ND<1	148
	6/11/2019	ND<1	148
	12/10/2019	ND<1	148
	6/24/2020	ND<1	148
	12/16/2020	ND<1	148
	6/15/2021	ND<1	148
	12/15/2021	ND<1	148
	6/7/2022	ND<1	148
	12/12/2022	ND<1	148
	6/19/2023	ND<1	148

Rank Sum = 1628
Rank Mean = 148

GWC-5	6/21/2018	ND<1	148
	12/18/2018	ND<1	148
	6/12/2019	ND<1	148
	12/10/2019	ND<1	148
	6/23/2020	ND<1	148
	12/17/2020	ND<1	148
	6/15/2021	ND<1	148
	12/13/2021	ND<1	148
	6/8/2022	ND<1	148
	12/12/2022	ND<1	148
	6/20/2023	ND<1	148
	12/11/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

GWC-6	6/21/2018	ND<1	148
	12/19/2018	ND<1	148
	6/12/2019	ND<1	148
	12/10/2019	ND<1	148
	6/24/2020	ND<1	148
	12/17/2020	ND<1	148
	6/15/2021	ND<1	148

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12/13/2021	ND<1	148
6/8/2022	ND<1	148
12/14/2022	ND<1	148
6/20/2023	ND<1	148
12/12/2023	ND<1	148

Rank Sum = 1776
Rank Mean = 148

Calculation Results:

Kruskal-Wallis H Statistic = 213.287
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 350.937
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
213.287 > 46.1942 indicating a significant group difference at 5% significance level
350.937 > 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 148

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	148	0	95.1626
GWC-23	148	0	95.1626
GWC-23A	148	0	95.1626
GWA-1A	148	0	95.1626
GWC-10	148	0	95.1626
GWC-10A	148	0	95.1626
GWC-11	148	0	95.1626
GWC-12	148	0	95.1626
GWC-12A	148	0	95.1626
GWC-13	148	0	95.1626
GWC-15	340.417	192.417	95.1626
GWC-17	275.273	127.273	98.0417
GWC-18	343.833	195.833	95.1626
GWC-19R	324.083	176.083	95.1626
GWC-22	148	0	95.1626
GWC-24	230.5	82.5	95.1626
GWC-7	148	0	95.1626
GWC-14	148	0	98.0417
GWC-14A	390.417	242.417	95.1626
GWC-14R	354.917	206.917	95.1626
GWC-2	148	0	95.1626
GWC-3A	148	0	95.1626
GWC-4	148	0	105.335
GWC-4A	148	0	95.1626
GWC-8	230.5	82.5	95.1626
GWC-8A	369.333	221.333	95.1626
GWC-8R	365.75	217.75	95.1626
GWC-9	148	0	95.1626
GWC-16A	227.083	79.0833	95.1626
GWC-3	148	0	98.0417
GWC-5	148	0	95.1626
GWC-6	148	0	95.1626

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

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Mean background rank is 148

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	148	0	126.411
GWC-23	148	0	126.411
GWC-23A	148	0	126.411
GWA-1A	148	0	126.411
GWC-10	148	0	126.411
GWC-10A	148	0	126.411
GWC-11	148	0	126.411
GWC-12	148	0	126.411
GWC-12A	148	0	126.411
GWC-13	148	0	126.411
GWC-15	340.417	192.417	126.411
GWC-17	275.273	127.273	130.236
GWC-18	343.833	195.833	126.411
GWC-19R	324.083	176.083	126.411
GWC-22	148	0	126.411
GWC-24	230.5	82.5	126.411
GWC-7	148	0	126.411
GWC-14	148	0	130.236
GWC-14A	390.417	242.417	126.411
GWC-14R	354.917	206.917	126.411
GWC-2	148	0	126.411
GWC-3A	148	0	126.411
GWC-4	148	0	139.924
GWC-4A	148	0	126.411
GWC-8	230.5	82.5	126.411
GWC-8A	369.333	221.333	126.411
GWC-8R	365.75	217.75	126.411
GWC-9	148	0	126.411
GWC-16A	227.083	79.0833	126.411
GWC-3	148	0	130.236
GWC-5	148	0	126.411
GWC-6	148	0	126.411

Kruskal-Wallis Non-Parametric Test

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/20/2018	ND<20	176
	12/18/2018	ND<20	176
	6/11/2019	ND<20	176
	12/10/2019	ND<20	176
	6/24/2020	ND<20	176
	12/18/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/9/2022	ND<20	176
	12/12/2022	ND<20	176
	12/15/2022	ND<20	176
	6/22/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 2288

Rank Mean = 176

GWA-2	6/20/2018	ND<20	176
	12/18/2018	ND<20	176
	6/12/2019	ND<20	176
	12/12/2019	ND<20	176
	6/23/2020	ND<20	176
	12/18/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/9/2022	ND<20	176
	12/13/2022	ND<20	176
	6/21/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 2112

Rank Mean = 176

Background Rank Sum = 4400

Background Rank Mean = 176

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/19/2018	ND<20	176
	12/18/2018	ND<20	176
	6/12/2019	ND<20	176
	12/11/2019	ND<20	176
	6/23/2020	ND<20	176
	12/17/2020	ND<20	176
	6/15/2021	ND<20	176
	12/15/2021	ND<20	176
	6/7/2022	ND<20	176
	12/14/2022	ND<20	176

	6/21/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112

Rank Mean = 176

GWC-23	6/19/2018	ND<20	176
	12/19/2018	ND<20	176
	6/13/2019	ND<20	176
	12/12/2019	ND<20	176
	6/24/2020	ND<20	176
	12/17/2020	ND<20	176
	6/15/2021	ND<20	176
	12/14/2021	ND<20	176
	6/7/2022	ND<20	176
	12/13/2022	ND<20	176
	6/22/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112

Rank Mean = 176

GWC-23A	6/19/2018	ND<20	176
	12/19/2018	ND<20	176
	6/13/2019	ND<20	176
	12/12/2019	ND<20	176
	6/24/2020	ND<20	176
	12/17/2020	ND<20	176
	6/15/2021	ND<20	176
	12/14/2021	ND<20	176
	6/7/2022	ND<20	176
	12/13/2022	ND<20	176
	6/22/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112

Rank Mean = 176

GWA-1A	6/20/2018	ND<20	176
	12/18/2018	ND<20	176
	6/10/2019	ND<20	176
	12/9/2019	ND<20	176
	6/23/2020	ND<20	176
	12/17/2020	ND<20	176
	6/17/2021	ND<20	176
	12/16/2021	ND<20	176
	6/8/2022	ND<20	176
	12/14/2022	ND<20	176
6/22/2023	ND<20	176	
12/13/2023	ND<20	176	

Rank Sum = 2112

Rank Mean = 176

GWC-10	6/20/2018	ND<20	176
	12/18/2018	ND<20	176
	6/11/2019	ND<20	176
	12/13/2019	ND<20	176
	6/25/2020	ND<20	176
	12/16/2020	ND<20	176
	6/16/2021	ND<20	176

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Cobalt

12/16/2021	ND<20	176
6/8/2022	ND<20	176
12/15/2022	ND<20	176
6/22/2023	ND<20	176
12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-10A	6/20/2018	ND<20	176
	12/18/2018	ND<20	176
	6/11/2019	ND<20	176
	12/13/2019	ND<20	176
	6/25/2020	ND<20	176
	12/16/2020	ND<20	176
	6/16/2021	ND<20	176
	12/16/2021	ND<20	176
	6/8/2022	ND<20	176
	12/15/2022	ND<20	176
	6/22/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-11	6/20/2018	ND<20	176
	12/20/2018	ND<20	176
	6/13/2019	ND<20	176
	12/13/2019	ND<20	176
	6/25/2020	ND<20	176
	12/16/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/8/2022	ND<20	176
	12/13/2022	ND<20	176
	6/21/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-12	6/20/2018	ND<20	176
	12/20/2018	ND<20	176
	6/12/2019	ND<20	176
	12/10/2019	ND<20	176
	6/25/2020	ND<20	176
	12/22/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/8/2022	ND<20	176
	12/13/2022	ND<20	176
	6/21/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-12A	6/20/2018	ND<20	176
	12/20/2018	ND<20	176
	6/12/2019	ND<20	176
	12/10/2019	ND<20	176

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Cobalt

6/25/2020	ND<20	176
12/16/2020	ND<20	176
6/16/2021	ND<20	176
12/14/2021	ND<20	176
6/8/2022	ND<20	176
12/13/2022	ND<20	176
6/21/2023	ND<20	176
12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-13	6/20/2018	ND<20	176
	12/20/2018	ND<20	176
	6/13/2019	ND<20	176
	12/12/2019	ND<20	176
	6/24/2020	ND<20	176
	12/16/2020	ND<20	176
	6/16/2021	ND<20	176
	12/16/2021	ND<20	176
	6/9/2022	ND<20	176
	12/13/2022	ND<20	176
	6/21/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-15	6/20/2018	ND<20	176
	12/19/2018	ND<20	176
	6/11/2019	ND<20	176
	12/10/2019	ND<20	176
	6/25/2020	ND<20	176
	12/17/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/9/2022	ND<20	176
	12/15/2022	ND<20	176
	6/22/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-17	6/20/2018	ND<20	176
	12/20/2018	ND<20	176
	6/13/2019	ND<20	176
	12/11/2019	ND<20	176
	6/24/2020	ND<20	176
	12/16/2020	ND<20	176
	6/15/2021	ND<20	176
	12/15/2021	ND<20	176
	6/10/2022	ND<25	176
	12/15/2022	ND<20	176
	6/21/2023	ND<20	176

Rank Sum = 1936
Rank Mean = 176

GWC-18	6/20/2018	ND<20	176
	12/19/2018	ND<20	176

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Cobalt

6/12/2019	ND<20	176
12/10/2019	ND<20	176
6/24/2020	ND<20	176
12/16/2020	ND<20	176
6/15/2021	ND<20	176
12/15/2021	ND<20	176
6/8/2022	ND<25	176
12/15/2022	ND<20	176
6/21/2023	ND<20	176
12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-19R	6/20/2018	ND<20	176
	12/19/2018	ND<20	176
	6/12/2019	ND<20	176
	12/10/2019	ND<20	176
	6/24/2020	ND<20	176
	12/16/2020	ND<20	176
	6/15/2021	45.2	354
	12/15/2021	40.4	352
	6/7/2022	ND<25	176
	12/15/2022	ND<20	176
	6/21/2023	ND<20	176
	12/14/2023	ND<20	176

Rank Sum = 2466
Rank Mean = 205.5

GWC-22	6/20/2018	ND<20	176
	12/19/2018	ND<20	176
	6/13/2019	ND<20	176
	12/12/2019	ND<20	176
	6/24/2020	ND<20	176
	12/18/2020	ND<20	176
	6/15/2021	ND<20	176
	12/14/2021	ND<20	176
	6/7/2022	ND<20	176
	12/13/2022	ND<20	176
	6/21/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-24	6/20/2018	ND<20	176
	6/12/2019	ND<20	176
	12/10/2019	ND<20	176
	6/25/2020	ND<20	176
	6/15/2021	ND<20	176
	6/8/2022	ND<25	176
	12/15/2022	ND<20	176
	6/21/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 1584
Rank Mean = 176

GWC-7	6/20/2018	ND<20	176
	12/19/2018	ND<20	176

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Cobalt

6/13/2019	ND<20	176
12/12/2019	ND<20	176
6/25/2020	ND<20	176
12/18/2020	ND<20	176
6/16/2021	ND<20	176
12/14/2021	ND<20	176
6/9/2022	ND<20	176
12/13/2022	ND<20	176
6/21/2023	ND<20	176
12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-16A	6/21/2018	ND<20	176
	12/20/2018	ND<20	176
	6/13/2019	ND<20	176
	12/12/2019	ND<20	176
	6/23/2020	ND<20	176
	12/17/2020	ND<20	176
	6/16/2021	ND<20	176
	12/16/2021	ND<20	176
	6/10/2022	ND<25	176
	12/15/2022	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 1936
Rank Mean = 176

GWC-14	6/21/2018	42	353
	6/12/2019	57	358
	12/11/2019	50.3	355
	6/25/2020	95.1	361
	12/18/2020	55.5	357
	6/16/2021	87.6	360
	12/16/2021	ND<20	176
	6/10/2022	85.5	359
	6/22/2023	55	356

Rank Sum = 3035
Rank Mean = 337.222

GWC-14A	6/21/2018	310	372
	12/19/2018	290	368
	6/12/2019	330	373
	12/11/2019	228	366
	6/24/2020	301	370
	12/16/2020	298	369
	6/16/2021	306	371
	12/15/2021	192	363
	6/10/2022	252	367
	12/14/2022	192	364
	6/21/2023	226	365
	12/13/2023	174	362

Rank Sum = 4410
Rank Mean = 367.5

GWC-2	6/21/2018	ND<20	176
	12/20/2018	ND<20	176
	6/13/2019	ND<20	176

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Cobalt

12/11/2019	ND<20	176
6/23/2020	ND<20	176
12/17/2020	ND<20	176
6/16/2021	ND<20	176
12/16/2021	ND<20	176
6/8/2022	ND<20	176
12/13/2022	ND<20	176
6/20/2023	ND<20	176
12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-3	6/21/2018	ND<20	176
	12/18/2018	ND<20	176
	6/12/2019	ND<20	176
	12/11/2019	ND<20	176
	6/25/2020	ND<20	176
	12/17/2020	ND<20	176
	6/16/2021	ND<20	176
	12/16/2021	ND<20	176
	6/8/2022	ND<20	176
	6/20/2023	ND<20	176

Rank Sum = 1760
Rank Mean = 176

GWC-3A	6/21/2018	ND<20	176
	12/18/2018	ND<20	176
	6/12/2019	ND<20	176
	12/11/2019	ND<20	176
	6/25/2020	ND<20	176
	12/17/2020	ND<20	176
	6/15/2021	ND<20	176
	12/16/2021	ND<20	176
	6/8/2022	ND<20	176
	12/13/2022	ND<20	176
	6/20/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-4	6/21/2018	ND<20	176
	6/24/2020	ND<20	176
	12/18/2020	ND<20	176
	6/17/2021	ND<20	176
	12/15/2021	ND<20	176
	6/9/2022	ND<20	176
	12/13/2022	ND<20	176
	6/21/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 1584
Rank Mean = 176

GWC-4A	6/21/2018	ND<20	176
	12/18/2018	ND<20	176
	6/12/2019	ND<20	176
	12/12/2019	ND<20	176
	6/24/2020	ND<20	176

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Cobalt

12/18/2020	ND<20	176
6/18/2021	ND<20	176
12/16/2021	ND<20	176
6/8/2022	ND<20	176
12/15/2022	ND<20	176
6/22/2023	ND<20	176
12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-5	6/21/2018	ND<20	176
	12/19/2018	ND<20	176
	6/13/2019	ND<20	176
	12/11/2019	ND<20	176
	6/24/2020	ND<20	176
	12/18/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/9/2022	ND<20	176
	12/13/2022	ND<20	176
	6/21/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-6	6/21/2018	ND<20	176
	12/20/2018	ND<20	176
	6/13/2019	ND<20	176
	12/11/2019	ND<20	176
	6/25/2020	ND<20	176
	12/18/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/9/2022	ND<20	176
	12/15/2022	ND<20	176
	6/21/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-8	6/21/2018	ND<20	176
	6/13/2019	ND<20	176
	12/12/2019	ND<20	176
	6/24/2020	ND<20	176
	12/17/2020	ND<20	176
	6/17/2021	ND<20	176
	12/16/2021	ND<20	176
	6/10/2022	ND<20	176
	12/14/2022	ND<20	176
	6/22/2023	ND<20	176
	12/13/2023	ND<20	176

Rank Sum = 1936
Rank Mean = 176

GWC-8A	6/21/2018	ND<20	176
	12/20/2018	ND<20	176
	6/13/2019	ND<20	176

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Cobalt

12/12/2019	ND<20	176
6/24/2020	ND<20	176
12/16/2020	ND<20	176
6/17/2021	ND<20	176
12/16/2021	ND<20	176
6/10/2022	ND<20	176
12/14/2022	ND<20	176
6/22/2023	ND<20	176
12/14/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-9	6/21/2018	ND<20	176
	12/19/2018	ND<20	176
	6/13/2019	ND<20	176
	12/13/2019	ND<20	176
	6/25/2020	ND<20	176
	12/18/2020	ND<20	176
	6/16/2021	ND<20	176
	12/14/2021	ND<20	176
	6/8/2022	ND<20	176
	12/15/2022	ND<20	176
	6/21/2023	ND<20	176
	12/12/2023	ND<20	176

Rank Sum = 2112
Rank Mean = 176

GWC-14R	6/9/2022	ND<20	176
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Rank Sum = 176
Rank Mean = 176

GWC-8R	6/9/2022	ND<20	176
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Rank Sum = 176
Rank Mean = 176

Calculation Results:

Kruskal-Wallis H Statistic = 54.9937

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 329.87

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

54.9937 > 46.1942 indicating a significant group difference at 5% significance level

329.87 > 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 176

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	176	0	88.0873
GWC-23	176	0	88.0873
GWC-23A	176	0	88.0873
GWA-1A	176	0	88.0873
GWC-10	176	0	88.0873
GWC-10A	176	0	88.0873
GWC-11	176	0	88.0873
GWC-12	176	0	88.0873
GWC-12A	176	0	88.0873

Forsyth County- Hightower Road Landfill - Phase II-IV

Cobalt

GWC-13	176	0	88.0873
GWC-15	176	0	88.0873
GWC-17	176	0	90.7524
GWC-18	176	0	88.0873
GWC-19R	205.5	29.5	88.0873
GWC-22	176	0	88.0873
GWC-24	176	0	97.5038
GWC-7	176	0	88.0873
GWC-16A	176	0	90.7524
GWC-14	337.222	161.222	97.5038
GWC-14A	367.5	191.5	88.0873
GWC-2	176	0	88.0873
GWC-3	176	0	93.8506
GWC-3A	176	0	88.0873
GWC-4	176	0	97.5038
GWC-4A	176	0	88.0873
GWC-5	176	0	88.0873
GWC-6	176	0	88.0873
GWC-8	176	0	90.7524
GWC-8A	176	0	88.0873
GWC-9	176	0	88.0873
GWC-14R	176	0	255.794
GWC-8R	176	0	255.794

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 176

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	176	0	117.013
GWC-23	176	0	117.013
GWC-23A	176	0	117.013
GWA-1A	176	0	117.013
GWC-10	176	0	117.013
GWC-10A	176	0	117.013
GWC-11	176	0	117.013
GWC-12	176	0	117.013
GWC-12A	176	0	117.013
GWC-13	176	0	117.013
GWC-15	176	0	117.013
GWC-17	176	0	120.553
GWC-18	176	0	117.013
GWC-19R	205.5	29.5	117.013
GWC-22	176	0	117.013
GWC-24	176	0	129.521
GWC-7	176	0	117.013
GWC-16A	176	0	120.553
GWC-14	337.222	161.222	129.521
GWC-14A	367.5	191.5	117.013
GWC-2	176	0	117.013
GWC-3	176	0	124.668
GWC-3A	176	0	117.013
GWC-4	176	0	129.521
GWC-4A	176	0	117.013
GWC-5	176	0	117.013
GWC-6	176	0	117.013
GWC-8	176	0	120.553

Kruskal-Wallis Non-Parametric Test

Parameter: Nickel
 Original Data (Not Transformed)
 Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	6/20/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/11/2019	ND<10	181.5
	12/10/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/9/2022	ND<10	181.5
	12/12/2022	ND<10	181.5
	12/15/2022	ND<10	181.5
	6/22/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2359.5
 Rank Mean = 181.5

GWA-2	6/20/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/12/2019	ND<10	181.5
	6/23/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/9/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2178
 Rank Mean = 181.5

Background Rank Sum = 4537.5
 Background Rank Mean = 181.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/19/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/11/2019	ND<10	181.5
	6/23/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	12/15/2021	ND<10	181.5
	6/7/2022	ND<10	181.5
	12/14/2022	ND<10	181.5

	6/21/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
 Rank Mean = 181.5

GWC-23	6/19/2018	ND<10	181.5
	12/19/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/12/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/7/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/22/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
 Rank Mean = 181.5

GWC-23A	6/19/2018	ND<10	181.5
	12/19/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/12/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/7/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/22/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
 Rank Mean = 181.5

GWA-1A	6/20/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/10/2019	ND<10	181.5
	12/9/2019	ND<10	181.5
	6/23/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/17/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/8/2022	ND<10	181.5
	12/14/2022	ND<10	181.5
	6/22/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2178
 Rank Mean = 181.5

GWC-10	6/20/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/11/2019	ND<10	181.5
	12/13/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/16/2020	ND<10	181.5
	6/16/2021	ND<10	181.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

12/16/2021	ND<10	181.5
6/8/2022	ND<10	181.5
12/15/2022	ND<10	181.5
6/22/2023	ND<10	181.5
12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-10A	6/20/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/11/2019	ND<10	181.5
	12/13/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/16/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/8/2022	ND<10	181.5
	12/15/2022	ND<10	181.5
	6/22/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-11	6/20/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/13/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/16/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/8/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-12	6/20/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/10/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/22/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/8/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-12A	6/20/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/10/2019	ND<10	181.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

6/25/2020	ND<10	181.5
12/16/2020	ND<10	181.5
6/16/2021	ND<10	181.5
12/14/2021	ND<10	181.5
6/8/2022	ND<10	181.5
12/13/2022	ND<10	181.5
6/21/2023	ND<10	181.5
12/13/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-13	6/20/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/12/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/16/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/9/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-15	6/20/2018	ND<10	181.5
	12/19/2018	ND<10	181.5
	6/11/2019	ND<10	181.5
	12/10/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/9/2022	ND<10	181.5
	12/15/2022	ND<10	181.5
	6/22/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-17	6/20/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/11/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/16/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	12/15/2021	ND<10	181.5
	6/10/2022	ND<20	181.5
	12/15/2022	ND<10	181.5
	6/21/2023	ND<10	181.5

Rank Sum = 1996.5
Rank Mean = 181.5

GWC-18	6/20/2018	ND<10	181.5
	12/19/2018	ND<10	181.5

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Nickel

6/12/2019	24	369
12/10/2019	29.8	371
6/24/2020	ND<10	181.5
12/16/2020	ND<10	181.5
6/15/2021	ND<10	181.5
12/15/2021	33.7	372
6/8/2022	ND<20	181.5
12/15/2022	ND<10	181.5
6/21/2023	ND<10	181.5
12/13/2023	107	373

Rank Sum = 2937
Rank Mean = 244.75

GWC-19R	6/20/2018	ND<10	181.5
	12/19/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/10/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/16/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	12/15/2021	ND<10	181.5
	6/7/2022	ND<20	181.5
	12/15/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/14/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-22	6/20/2018	ND<10	181.5
	12/19/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/12/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/7/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-24	6/20/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/10/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	6/8/2022	ND<20	181.5
	12/15/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 1633.5
Rank Mean = 181.5

GWC-7	6/20/2018	ND<10	181.5
	12/19/2018	ND<10	181.5

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Nickel

6/13/2019	ND<10	181.5
12/12/2019	ND<10	181.5
6/25/2020	ND<10	181.5
12/18/2020	ND<10	181.5
6/16/2021	ND<10	181.5
12/14/2021	ND<10	181.5
6/9/2022	ND<10	181.5
12/13/2022	ND<10	181.5
6/21/2023	ND<10	181.5
12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-16A	6/21/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/12/2019	ND<10	181.5
	6/23/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/10/2022	ND<20	181.5
	12/15/2022	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 1996.5
Rank Mean = 181.5

GWC-14	6/21/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/11/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/10/2022	ND<10	181.5
	6/22/2023	ND<10	181.5

Rank Sum = 1633.5
Rank Mean = 181.5

GWC-14A	6/21/2018	24	370
	12/19/2018	20	363
	6/12/2019	21	364
	12/11/2019	ND<10	181.5
	6/24/2020	22.2	366
	12/16/2020	23.6	368
	6/16/2021	22.2	367
	12/15/2021	ND<10	181.5
	6/10/2022	ND<10	181.5
	12/14/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 3287
Rank Mean = 273.917

GWC-2	6/21/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/13/2019	ND<10	181.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

12/11/2019	ND<10	181.5
6/23/2020	ND<10	181.5
12/17/2020	ND<10	181.5
6/16/2021	ND<10	181.5
12/16/2021	ND<10	181.5
6/8/2022	ND<10	181.5
12/13/2022	ND<10	181.5
6/20/2023	ND<10	181.5
12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-3	6/21/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/11/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/8/2022	ND<10	181.5
	6/20/2023	ND<10	181.5

Rank Sum = 1815
Rank Mean = 181.5

GWC-3A	6/21/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/12/2019	ND<10	181.5
	12/11/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/15/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/8/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/20/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-4	6/21/2018	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/17/2021	ND<10	181.5
	12/15/2021	ND<10	181.5
	6/9/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 1633.5
Rank Mean = 181.5

GWC-4A	6/21/2018	ND<10	181.5
	12/18/2018	ND<10	181.5
	6/12/2019	22	365
	12/12/2019	ND<10	181.5
	6/24/2020	ND<10	181.5

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Nickel

12/18/2020	ND<10	181.5
6/18/2021	ND<10	181.5
12/16/2021	ND<10	181.5
6/8/2022	ND<10	181.5
12/15/2022	ND<10	181.5
6/22/2023	ND<10	181.5
12/13/2023	ND<10	181.5

Rank Sum = 2361.5
Rank Mean = 196.792

GWC-5	6/21/2018	ND<10	181.5
	12/19/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/11/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/9/2022	ND<10	181.5
	12/13/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-6	6/21/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/11/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/9/2022	ND<10	181.5
	12/15/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-8	6/21/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/12/2019	ND<10	181.5
	6/24/2020	ND<10	181.5
	12/17/2020	ND<10	181.5
	6/17/2021	ND<10	181.5
	12/16/2021	ND<10	181.5
	6/10/2022	ND<10	181.5
	12/14/2022	ND<10	181.5
	6/22/2023	ND<10	181.5
	12/13/2023	ND<10	181.5

Rank Sum = 1996.5
Rank Mean = 181.5

GWC-8A	6/21/2018	ND<10	181.5
	12/20/2018	ND<10	181.5
	6/13/2019	ND<10	181.5

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Nickel

12/12/2019	ND<10	181.5
6/24/2020	ND<10	181.5
12/16/2020	ND<10	181.5
6/17/2021	ND<10	181.5
12/16/2021	ND<10	181.5
6/10/2022	ND<10	181.5
12/14/2022	ND<10	181.5
6/22/2023	ND<10	181.5
12/14/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-9	6/21/2018	ND<10	181.5
	12/19/2018	ND<10	181.5
	6/13/2019	ND<10	181.5
	12/13/2019	ND<10	181.5
	6/25/2020	ND<10	181.5
	12/18/2020	ND<10	181.5
	6/16/2021	ND<10	181.5
	12/14/2021	ND<10	181.5
	6/8/2022	ND<10	181.5
	12/15/2022	ND<10	181.5
	6/21/2023	ND<10	181.5
	12/12/2023	ND<10	181.5

Rank Sum = 2178
Rank Mean = 181.5

GWC-14R	6/9/2022	ND<10	181.5
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Rank Sum = 181.5
Rank Mean = 181.5

GWC-8R	6/9/2022	ND<10	181.5
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Rank Sum = 181.5
Rank Mean = 181.5

Calculation Results:

Kruskal-Wallis H Statistic = 12.2166

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 142.237

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

12.2166 < 46.1942 indicating no significant group difference at 5% significance level

142.237 > 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	88.0873
GWC-23	181.5	0	88.0873
GWC-23A	181.5	0	88.0873
GWA-1A	181.5	0	88.0873
GWC-10	181.5	0	88.0873
GWC-10A	181.5	0	88.0873
GWC-11	181.5	0	88.0873
GWC-12	181.5	0	88.0873
GWC-12A	181.5	0	88.0873

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Nickel

GWC-13	181.5	0	88.0873
GWC-15	181.5	0	88.0873
GWC-17	181.5	0	90.7524
GWC-18	244.75	63.25	88.0873
GWC-19R	181.5	0	88.0873
GWC-22	181.5	0	88.0873
GWC-24	181.5	0	97.5038
GWC-7	181.5	0	88.0873
GWC-16A	181.5	0	90.7524
GWC-14	181.5	0	97.5038
GWC-14A	273.917	92.4167	88.0873
GWC-2	181.5	0	88.0873
GWC-3	181.5	0	93.8506
GWC-3A	181.5	0	88.0873
GWC-4	181.5	0	97.5038
GWC-4A	196.792	15.2917	88.0873
GWC-5	181.5	0	88.0873
GWC-6	181.5	0	88.0873
GWC-8	181.5	0	90.7524
GWC-8A	181.5	0	88.0873
GWC-9	181.5	0	88.0873
GWC-14R	181.5	0	255.794
GWC-8R	181.5	0	255.794

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	117.013
GWC-23	181.5	0	117.013
GWC-23A	181.5	0	117.013
GWA-1A	181.5	0	117.013
GWC-10	181.5	0	117.013
GWC-10A	181.5	0	117.013
GWC-11	181.5	0	117.013
GWC-12	181.5	0	117.013
GWC-12A	181.5	0	117.013
GWC-13	181.5	0	117.013
GWC-15	181.5	0	117.013
GWC-17	181.5	0	120.553
GWC-18	244.75	63.25	117.013
GWC-19R	181.5	0	117.013
GWC-22	181.5	0	117.013
GWC-24	181.5	0	129.521
GWC-7	181.5	0	117.013
GWC-16A	181.5	0	120.553
GWC-14	181.5	0	129.521
GWC-14A	273.917	92.4167	117.013
GWC-2	181.5	0	117.013
GWC-3	181.5	0	124.668
GWC-3A	181.5	0	117.013
GWC-4	181.5	0	129.521
GWC-4A	196.792	15.2917	117.013
GWC-5	181.5	0	117.013
GWC-6	181.5	0	117.013
GWC-8	181.5	0	120.553

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	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/10/2019	ND<1	189
	12/9/2019	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/15/2021	ND<1	189
	12/13/2021	ND<1	189
	6/8/2022	ND<1	189
	12/12/2022	ND<1	189
	12/15/2022	ND<1	189
	6/22/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2457

Rank Mean = 189

GWA-2	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/11/2019	ND<1	189
	6/22/2020	ND<1	189
	12/17/2020	ND<1	189
	6/15/2021	ND<1	189
	12/13/2021	ND<1	189
	6/8/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2268

Rank Mean = 189

Background Rank Sum = 4725

Background Rank Mean = 189

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189
	6/22/2020	ND<1	189
	12/16/2020	ND<1	189
	6/14/2021	ND<1	189
	12/14/2021	ND<1	189
	6/6/2022	ND<1	189
	12/13/2022	ND<1	189

6/20/2023 ND<1 189

12/11/2023 ND<1 189

Rank Sum = 2268

Rank Mean = 189

GWC-23	6/18/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/24/2020	ND<1	189
	12/16/2020	ND<1	189
	6/14/2021	ND<1	189
	12/13/2021	ND<1	189
	6/6/2022	ND<1	189
	12/12/2022	ND<1	189
	6/21/2023	ND<1	189
	12/11/2023	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWC-23A	6/18/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/24/2020	ND<1	189
	12/16/2020	ND<1	189
	6/14/2021	ND<1	189
	12/13/2021	ND<1	189
	6/6/2022	ND<1	189
	12/12/2022	ND<1	189
	6/21/2023	ND<1	189
	12/11/2023	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWA-1A	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/10/2019	ND<1	189
	12/9/2019	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/17/2021	ND<1	189
	12/16/2021	ND<1	189
	6/8/2022	ND<1	189
	12/14/2022	ND<1	189
	6/22/2023	ND<1	189
	12/13/2023	ND<1	189

Rank Sum = 2268

Rank Mean = 189

GWC-10	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/10/2019	ND<1	189
	12/12/2019	ND<1	189
	6/24/2020	ND<1	189
	12/15/2020	ND<1	189
	6/15/2021	ND<1	189

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Tetrachloroethene

12/15/2021	ND<1	189
6/7/2022	ND<1	189
12/14/2022	ND<1	189
6/21/2023	ND<1	189
12/11/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-10A	6/19/2018	ND<1	189
	12/17/2018	ND<1	189
	6/10/2019	ND<1	189
	12/12/2019	ND<1	189
	6/24/2020	ND<1	189
	12/15/2020	ND<1	189
	6/15/2021	ND<1	189
	12/15/2021	ND<1	189
	6/7/2022	ND<1	189
	12/14/2022	ND<1	189
	6/21/2023	ND<1	189
	12/11/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-11	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/12/2019	ND<1	189
	6/24/2020	ND<1	189
	12/15/2020	ND<1	189
	6/15/2021	ND<1	189
	12/13/2021	ND<1	189
	6/7/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/11/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-12	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189
	6/24/2020	ND<1	189
	12/15/2020	ND<1	189
	6/15/2021	ND<1	189
	12/13/2021	ND<1	189
	6/7/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-12A	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

6/24/2020	ND<1	189
12/15/2020	ND<1	189
6/15/2021	ND<1	189
12/13/2021	ND<1	189
6/7/2022	ND<1	189
12/12/2022	ND<1	189
6/20/2023	ND<1	189
12/12/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-13	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/23/2020	ND<1	189
	12/15/2020	ND<1	189
	6/15/2021	ND<1	189
	12/15/2021	ND<1	189
	6/8/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-15	6/19/2018	5	389
	12/19/2018	9.7	395
	6/11/2019	50	403
	12/10/2019	31	400
	6/25/2020	48	402
	12/17/2020	19	398
	6/16/2021	29	399
	12/14/2021	12	397
	6/9/2022	42	401
	12/15/2022	ND<1	189
	6/22/2023	ND<1	189
	12/13/2023	11	396

Rank Sum = 4358
Rank Mean = 363.167

GWC-17	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189
	6/23/2020	ND<1	189
	12/15/2020	ND<1	189
	6/14/2021	ND<1	189
	12/14/2021	ND<1	189
	6/9/2022	ND<1	189
	12/14/2022	ND<1	189
	6/20/2023	ND<1	189

Rank Sum = 2079
Rank Mean = 189

GWC-18	6/19/2018	4.6	388
	12/18/2018	7	393

Forsyth County- Hightower Road Landfill - Phase II-IV

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6/11/2019	3.9	387
12/9/2019	7.4	394
6/23/2020	5.7	391
12/15/2020	6.4	392
6/14/2021	3.1	383
12/14/2021	3.4	385
6/7/2022	5.2	390
12/14/2022	3.8	386
6/20/2023	2.9	382
12/12/2023	2.3	381

Rank Sum = 4652
Rank Mean = 387.667

GWC-19R	6/19/2018	ND<1	189
	12/18/2018	2	378
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189
	6/23/2020	ND<1	189
	12/15/2020	ND<1	189
	6/14/2021	ND<1	189
	12/14/2021	ND<1	189
	6/6/2022	ND<1	189
	12/14/2022	ND<1	189
	6/20/2023	ND<1	189
	12/13/2023	ND<1	189

Rank Sum = 2457
Rank Mean = 204.75

GWC-22	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/14/2021	ND<1	189
	12/13/2021	ND<1	189
	6/6/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/11/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-24	6/19/2018	ND<1	189
	12/19/2018	ND<1	189
	6/11/2019	ND<1	189
	12/9/2019	ND<1	189
	6/24/2020	ND<1	189
	12/15/2020	ND<1	189
	6/14/2021	ND<1	189
	12/14/2021	ND<1	189
	6/7/2022	ND<1	189
	12/14/2022	ND<1	189
	6/20/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

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Tetrachloroethene

GWC-7	6/19/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/24/2020	ND<1	189
	12/17/2020	ND<1	189
	6/15/2021	ND<1	189
	12/13/2021	ND<1	189
	6/8/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/11/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-14	6/20/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189
	6/24/2020	ND<1	189
	12/17/2020	ND<1	189
	6/15/2021	ND<1	189
	12/15/2021	ND<1	189
	6/9/2022	ND<1	189
	12/13/2022	ND<1	189
	6/21/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2079
Rank Mean = 189

GWC-14A	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189
	6/24/2020	ND<1	189
	12/15/2020	ND<1	189
	6/15/2021	ND<1	189
	12/14/2021	ND<1	189
	6/9/2022	ND<1	189
	12/13/2022	ND<1	189
	6/20/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-14R	6/20/2018	2	379
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/16/2021	ND<1	189
	12/14/2021	ND<1	189
	6/9/2022	ND<1	189
	12/13/2022	ND<1	189
	6/21/2023	ND<1	189
	12/12/2023	ND<1	189

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Tetrachloroethene

Rank Sum = 2458
Rank Mean = 204.833

GWC-2	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189
	6/22/2020	ND<1	189
	12/16/2020	ND<1	189
	6/15/2021	ND<1	189
	12/15/2021	ND<1	189
	6/7/2022	ND<1	189
	12/12/2022	ND<1	189
	6/19/2023	ND<1	189
	12/11/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-3A	6/20/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189
	6/24/2020	ND<1	189
	12/16/2020	ND<1	189
	6/14/2021	ND<1	189
	12/15/2021	ND<1	189
	6/7/2022	ND<1	189
	12/12/2022	ND<1	189
	6/19/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-4	6/20/2018	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/16/2021	ND<1	189
	12/14/2021	ND<1	189
	6/8/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 1701
Rank Mean = 189

GWC-4A	6/20/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/11/2019	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/17/2021	ND<1	189
	12/15/2021	ND<1	189
	6/8/2022	ND<1	189
	12/14/2022	ND<1	189
	6/21/2023	ND<1	189
	12/13/2023	ND<1	189

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Tetrachloroethene

Rank Sum = 2268
Rank Mean = 189

GWC-8	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/23/2020	ND<1	189
	12/16/2020	ND<1	189
	6/16/2021	ND<1	189
	12/15/2021	ND<1	189
	6/9/2022	ND<1	189
	12/13/2022	ND<1	189
	6/21/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-8A	6/20/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/23/2020	ND<1	189
	12/15/2020	ND<1	189
	6/16/2021	ND<1	189
	12/15/2021	ND<1	189
	6/9/2022	ND<1	189
	12/13/2022	ND<1	189
	6/21/2023	ND<1	189
	12/13/2023	ND<1	189

Rank Sum = 2268
Rank Mean = 189

GWC-8R	6/20/2018	2	380
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/11/2019	ND<1	189
	6/23/2020	ND<1	189
	12/15/2020	ND<1	189
	6/16/2021	ND<1	189
	12/15/2021	ND<1	189
	6/9/2022	ND<1	189
	12/13/2022	ND<1	189
	6/21/2023	ND<1	189
	12/12/2023	ND<1	189

Rank Sum = 2459
Rank Mean = 204.917

GWC-9	6/20/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/12/2019	ND<1	189
	6/24/2020	ND<1	189
	12/17/2020	ND<1	189
	6/15/2021	ND<1	189
	12/13/2021	ND<1	189
	6/7/2022	ND<1	189

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Tetrachloroethene

12/14/2022	ND<1	189
6/20/2023	ND<1	189
12/11/2023	ND<1	189
Rank Sum = 2268		
Rank Mean = 189		

GWC-16A	6/21/2018	ND<1	189
	12/19/2018	ND<1	189
	6/13/2019	ND<1	189
	12/11/2019	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/16/2021	ND<1	189
	12/16/2021	ND<1	189
	6/9/2022	ND<1	189
	12/14/2022	ND<1	189
	6/20/2023	3.2	384
	12/12/2023	ND<1	189
Rank Sum = 2463			
Rank Mean = 205.25			

GWC-3	6/21/2018	ND<1	189
	12/17/2018	ND<1	189
	6/11/2019	ND<1	189
	12/10/2019	ND<1	189
	6/24/2020	ND<1	189
	12/16/2020	ND<1	189
	6/15/2021	ND<1	189
	12/15/2021	ND<1	189
	6/7/2022	ND<1	189
	12/12/2022	ND<1	189
	6/19/2023	ND<1	189
Rank Sum = 2079			
Rank Mean = 189			

GWC-5	6/21/2018	ND<1	189
	12/18/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189
	6/23/2020	ND<1	189
	12/17/2020	ND<1	189
	6/15/2021	ND<1	189
	12/13/2021	ND<1	189
	6/8/2022	ND<1	189
	12/12/2022	ND<1	189
	6/20/2023	ND<1	189
	12/11/2023	ND<1	189
Rank Sum = 2268			
Rank Mean = 189			

GWC-6	6/21/2018	ND<1	189
	12/19/2018	ND<1	189
	6/12/2019	ND<1	189
	12/10/2019	ND<1	189
	6/24/2020	ND<1	189
	12/17/2020	ND<1	189
	6/15/2021	ND<1	189

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

12/13/2021	ND<1	189
6/8/2022	ND<1	189
12/14/2022	ND<1	189
6/20/2023	ND<1	189
12/12/2023	ND<1	189
Rank Sum = 2268		
Rank Mean = 189		

Calculation Results:

Kruskal-Wallis H Statistic = 57.6161
 Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 317.741
 95% Confidence comparison value is 46.1942 at 32 degrees of freedom
57.6161 > 46.1942 indicating a significant group difference at 5% significance level
317.741 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
 Mean background rank is 189

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	189	0	95.1626
GWC-23	189	0	95.1626
GWC-23A	189	0	95.1626
GWA-1A	189	0	95.1626
GWC-10	189	0	95.1626
GWC-10A	189	0	95.1626
GWC-11	189	0	95.1626
GWC-12	189	0	95.1626
GWC-12A	189	0	95.1626
GWC-13	189	0	95.1626
GWC-15	363.167	174.167	95.1626
GWC-17	189	0	98.0417
GWC-18	387.667	198.667	95.1626
GWC-19R	204.75	15.75	95.1626
GWC-22	189	0	95.1626
GWC-24	189	0	95.1626
GWC-7	189	0	95.1626
GWC-14	189	0	98.0417
GWC-14A	189	0	95.1626
GWC-14R	204.833	15.8333	95.1626
GWC-2	189	0	95.1626
GWC-3A	189	0	95.1626
GWC-4	189	0	105.335
GWC-4A	189	0	95.1626
GWC-8	189	0	95.1626
GWC-8A	189	0	95.1626
GWC-8R	204.917	15.9167	95.1626
GWC-9	189	0	95.1626
GWC-16A	205.25	16.25	95.1626
GWC-3	189	0	98.0417
GWC-5	189	0	95.1626
GWC-6	189	0	95.1626

Individual Well Comparisons at Groupwise 5% Significance Level

(0.15625% Significance Level per comparison)
 0.15625% Z score is 3.09024

Mean background rank is 189

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	189	0	126.411
GWC-23	189	0	126.411
GWC-23A	189	0	126.411
GWA-1A	189	0	126.411
GWC-10	189	0	126.411
GWC-10A	189	0	126.411
GWC-11	189	0	126.411
GWC-12	189	0	126.411
GWC-12A	189	0	126.411
GWC-13	189	0	126.411
GWC-15	363.167	174.167	126.411
GWC-17	189	0	130.236
GWC-18	387.667	198.667	126.411
GWC-19R	204.75	15.75	126.411
GWC-22	189	0	126.411
GWC-24	189	0	126.411
GWC-7	189	0	126.411
GWC-14	189	0	130.236
GWC-14A	189	0	126.411
GWC-14R	204.833	15.8333	126.411
GWC-2	189	0	126.411
GWC-3A	189	0	126.411
GWC-4	189	0	139.924
GWC-4A	189	0	126.411
GWC-8	189	0	126.411
GWC-8A	189	0	126.411
GWC-8R	204.917	15.9167	126.411
GWC-9	189	0	126.411
GWC-16A	205.25	16.25	126.411
GWC-3	189	0	130.236
GWC-5	189	0	126.411
GWC-6	189	0	126.411

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	6/19/2018	ND<1	186.5
	12/17/2018	ND<1	186.5
	6/10/2019	ND<1	186.5
	12/9/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/13/2021	ND<1	186.5
	6/8/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	12/15/2022	ND<1	186.5
	6/22/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2424.5

Rank Mean = 186.5

GWA-2	6/19/2018	ND<1	186.5
	12/17/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/22/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/13/2021	ND<1	186.5
	6/8/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2238

Rank Mean = 186.5

Background Rank Sum = 4662.5

Background Rank Mean = 186.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	186.5
	12/17/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/22/2020	ND<1	186.5
	12/16/2020	ND<1	186.5
	6/14/2021	ND<1	186.5
	12/14/2021	ND<1	186.5
	6/6/2022	ND<1	186.5
	12/13/2022	ND<1	186.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

6/20/2023 ND<1 186.5
 12/11/2023 ND<1 186.5
 Rank Sum = 2238
 Rank Mean = 186.5

GWC-23 6/18/2018 ND<1 186.5
 12/18/2018 ND<1 186.5
 6/12/2019 ND<1 186.5
 12/11/2019 ND<1 186.5
 6/24/2020 ND<1 186.5
 12/16/2020 ND<1 186.5
 6/14/2021 ND<1 186.5
 12/13/2021 ND<1 186.5
 6/6/2022 ND<1 186.5
 12/12/2022 ND<1 186.5
 6/21/2023 ND<1 186.5
 12/11/2023 ND<1 186.5

Rank Sum = 2238
 Rank Mean = 186.5

GWC-23A 6/18/2018 ND<1 186.5
 12/18/2018 ND<1 186.5
 6/12/2019 ND<1 186.5
 12/11/2019 ND<1 186.5
 6/24/2020 ND<1 186.5
 12/16/2020 ND<1 186.5
 6/14/2021 ND<1 186.5
 12/13/2021 ND<1 186.5
 6/6/2022 ND<1 186.5
 12/12/2022 ND<1 186.5
 6/21/2023 ND<1 186.5
 12/11/2023 ND<1 186.5

Rank Sum = 2238
 Rank Mean = 186.5

GWA-1A 6/19/2018 ND<1 186.5
 12/18/2018 ND<1 186.5
 6/10/2019 ND<1 186.5
 12/9/2019 ND<1 186.5
 6/23/2020 ND<1 186.5
 12/17/2020 ND<1 186.5
 6/17/2021 ND<1 186.5
 12/16/2021 ND<1 186.5
 6/8/2022 ND<1 186.5
 12/14/2022 ND<1 186.5
 6/22/2023 ND<1 186.5
 12/13/2023 ND<1 186.5

Rank Sum = 2238
 Rank Mean = 186.5

GWC-10 6/19/2018 ND<1 186.5
 12/17/2018 ND<1 186.5
 6/10/2019 ND<1 186.5
 12/12/2019 ND<1 186.5
 6/24/2020 ND<1 186.5
 12/15/2020 ND<1 186.5
 6/15/2021 ND<1 186.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

12/15/2021 ND<1 186.5
 6/7/2022 ND<1 186.5
 12/14/2022 ND<1 186.5
 6/21/2023 ND<1 186.5
 12/11/2023 ND<1 186.5

Rank Sum = 2238
 Rank Mean = 186.5

GWC-10A 6/19/2018 ND<1 186.5
 12/17/2018 ND<1 186.5
 6/10/2019 ND<1 186.5
 12/12/2019 ND<1 186.5
 6/24/2020 ND<1 186.5
 12/15/2020 ND<1 186.5
 6/15/2021 ND<1 186.5
 12/15/2021 ND<1 186.5
 6/7/2022 ND<1 186.5
 12/14/2022 ND<1 186.5
 6/21/2023 ND<1 186.5
 12/11/2023 ND<1 186.5

Rank Sum = 2238
 Rank Mean = 186.5

GWC-11 6/19/2018 ND<1 186.5
 12/19/2018 ND<1 186.5
 6/12/2019 ND<1 186.5
 12/12/2019 ND<1 186.5
 6/24/2020 ND<1 186.5
 12/15/2020 ND<1 186.5
 6/15/2021 ND<1 186.5
 12/13/2021 ND<1 186.5
 6/7/2022 ND<1 186.5
 12/12/2022 ND<1 186.5
 6/20/2023 ND<1 186.5
 12/11/2023 ND<1 186.5

Rank Sum = 2238
 Rank Mean = 186.5

GWC-12 6/19/2018 ND<1 186.5
 12/19/2018 ND<1 186.5
 6/11/2019 ND<1 186.5
 12/9/2019 ND<1 186.5
 6/24/2020 ND<1 186.5
 12/15/2020 ND<1 186.5
 6/15/2021 ND<1 186.5
 12/13/2021 ND<1 186.5
 6/7/2022 ND<1 186.5
 12/12/2022 ND<1 186.5
 6/20/2023 ND<1 186.5
 12/12/2023 ND<1 186.5

Rank Sum = 2238
 Rank Mean = 186.5

GWC-12A 6/19/2018 ND<1 186.5
 12/19/2018 ND<1 186.5
 6/11/2019 ND<1 186.5
 12/9/2019 ND<1 186.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

6/24/2020	ND<1	186.5
12/15/2020	ND<1	186.5
6/15/2021	ND<1	186.5
12/13/2021	ND<1	186.5
6/7/2022	ND<1	186.5
12/12/2022	ND<1	186.5
6/20/2023	ND<1	186.5
12/12/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-13	6/19/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/15/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/8/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-15	6/19/2018	ND<1	186.5
	12/19/2018	3.7	387
	6/11/2019	70	400
	12/10/2019	55	398
	6/25/2020	90	403
	12/17/2020	45	396
	6/16/2021	71	401
	12/14/2021	48	397
	6/9/2022	65	399
	12/15/2022	ND<1	186.5
	6/22/2023	ND<1	186.5
	12/13/2023	88	402

Rank Sum = 4142.5
Rank Mean = 345.208

GWC-17	6/19/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/15/2020	ND<1	186.5
	6/14/2021	ND<1	186.5
	12/14/2021	ND<1	186.5
	6/9/2022	ND<1	186.5
	12/14/2022	ND<1	186.5
	6/20/2023	ND<1	186.5

Rank Sum = 2051.5
Rank Mean = 186.5

GWC-18	6/19/2018	ND<1	186.5
	12/18/2018	2.1	373

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

6/11/2019	ND<1	186.5
12/9/2019	2.6	379
6/23/2020	ND<1	186.5
12/15/2020	2.4	378
6/14/2021	ND<1	186.5
12/14/2021	ND<1	186.5
6/7/2022	ND<1	186.5
12/14/2022	ND<1	186.5
6/20/2023	ND<1	186.5
12/12/2023	ND<1	186.5

Rank Sum = 2808.5
Rank Mean = 234.042

GWC-19R	6/19/2018	ND<1	186.5
	12/18/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/9/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/15/2020	ND<1	186.5
	6/14/2021	ND<1	186.5
	12/14/2021	ND<1	186.5
	6/6/2022	ND<1	186.5
	12/14/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/13/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-22	6/19/2018	ND<1	186.5
	12/18/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/14/2021	ND<1	186.5
	12/13/2021	ND<1	186.5
	6/6/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/11/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-24	6/19/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/9/2019	ND<1	186.5
	6/24/2020	ND<1	186.5
	12/15/2020	ND<1	186.5
	6/14/2021	ND<1	186.5
	12/14/2021	ND<1	186.5
	6/7/2022	ND<1	186.5
	12/14/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

GWC-7	6/19/2018	ND<1	186.5
	12/18/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/24/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/13/2021	ND<1	186.5
	6/8/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/11/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-14	6/20/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/24/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/9/2022	ND<1	186.5
	12/13/2022	ND<1	186.5
	6/21/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2051.5
Rank Mean = 186.5

GWC-14A	6/20/2018	2.1	374
	12/19/2018	2.2	376
	6/11/2019	ND<1	186.5
	12/10/2019	3.1	385
	6/24/2020	ND<1	186.5
	12/15/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/14/2021	ND<1	186.5
	6/9/2022	ND<1	186.5
	12/13/2022	3.3	386
	6/20/2023	ND<1	186.5
	12/12/2023	2.6	380

Rank Sum = 3206.5
Rank Mean = 267.208

GWC-14R	6/20/2018	5.2	394
	12/19/2018	4.9	393
	6/12/2019	4.7	392
	12/10/2019	4.3	390
	6/23/2020	4.3	391
	12/17/2020	3.9	388
	6/16/2021	3.9	389
	12/14/2021	2.8	382
	6/9/2022	2.8	383
	12/13/2022	3	384
	6/21/2023	2.3	377
	12/12/2023	2.6	381

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

Rank Sum = 4644
Rank Mean = 387

GWC-2	6/20/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/22/2020	ND<1	186.5
	12/16/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/7/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/19/2023	ND<1	186.5
	12/11/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-3A	6/20/2018	ND<1	186.5
	12/17/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/24/2020	ND<1	186.5
	12/16/2020	ND<1	186.5
	6/14/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/7/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/19/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-4	6/20/2018	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/16/2021	ND<1	186.5
	12/14/2021	ND<1	186.5
	6/8/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 1678.5
Rank Mean = 186.5

GWC-4A	6/20/2018	ND<1	186.5
	12/17/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/17/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/8/2022	ND<1	186.5
	12/14/2022	ND<1	186.5
	6/21/2023	ND<1	186.5
	12/13/2023	ND<1	186.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

Rank Sum = 2238
Rank Mean = 186.5

GWC-8	6/20/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/16/2020	ND<1	186.5
	6/16/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/9/2022	ND<1	186.5
	12/13/2022	ND<1	186.5
	6/21/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-8A	6/20/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/15/2020	ND<1	186.5
	6/16/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/9/2022	ND<1	186.5
	12/13/2022	ND<1	186.5
	6/21/2023	ND<1	186.5
	12/13/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-8R	6/20/2018	5.3	395
	12/19/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/15/2020	ND<1	186.5
	6/16/2021	2.1	375
	12/15/2021	ND<1	186.5
	6/9/2022	ND<1	186.5
	12/13/2022	ND<1	186.5
	6/21/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2635
Rank Mean = 219.583

GWC-9	6/20/2018	ND<1	186.5
	12/18/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/12/2019	ND<1	186.5
	6/24/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/13/2021	ND<1	186.5
	6/7/2022	ND<1	186.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

12/14/2022	ND<1	186.5
6/20/2023	ND<1	186.5
12/11/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-16A	6/21/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/13/2019	ND<1	186.5
	12/11/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/16/2021	ND<1	186.5
	12/16/2021	ND<1	186.5
	6/9/2022	ND<1	186.5
	12/14/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/12/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-3	6/21/2018	ND<1	186.5
	12/17/2018	ND<1	186.5
	6/11/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/24/2020	ND<1	186.5
	12/16/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/15/2021	ND<1	186.5
	6/7/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/19/2023	ND<1	186.5

Rank Sum = 2051.5
Rank Mean = 186.5

GWC-5	6/21/2018	ND<1	186.5
	12/18/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/23/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/15/2021	ND<1	186.5
	12/13/2021	ND<1	186.5
	6/8/2022	ND<1	186.5
	12/12/2022	ND<1	186.5
	6/20/2023	ND<1	186.5
	12/11/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

GWC-6	6/21/2018	ND<1	186.5
	12/19/2018	ND<1	186.5
	6/12/2019	ND<1	186.5
	12/10/2019	ND<1	186.5
	6/24/2020	ND<1	186.5
	12/17/2020	ND<1	186.5
	6/15/2021	ND<1	186.5

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

12/13/2021	ND<1	186.5
6/8/2022	ND<1	186.5
12/14/2022	ND<1	186.5
6/20/2023	ND<1	186.5
12/12/2023	ND<1	186.5

Rank Sum = 2238
Rank Mean = 186.5

Calculation Results:

Kruskal-Wallis H Statistic = 59.4255
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 278.374
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
59.4255 > 46.1942 indicating a significant group difference at 5% significance level
278.374 > 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 186.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	186.5	0	95.1626
GWC-23	186.5	0	95.1626
GWC-23A	186.5	0	95.1626
GWA-1A	186.5	0	95.1626
GWC-10	186.5	0	95.1626
GWC-10A	186.5	0	95.1626
GWC-11	186.5	0	95.1626
GWC-12	186.5	0	95.1626
GWC-12A	186.5	0	95.1626
GWC-13	186.5	0	95.1626
GWC-15	345.208	158.708	95.1626
GWC-17	186.5	0	98.0417
GWC-18	234.042	47.5417	95.1626
GWC-19R	186.5	0	95.1626
GWC-22	186.5	0	95.1626
GWC-24	186.5	0	95.1626
GWC-7	186.5	0	95.1626
GWC-14	186.5	0	98.0417
GWC-14A	267.208	80.7083	95.1626
GWC-14R	387	200.5	95.1626
GWC-2	186.5	0	95.1626
GWC-3A	186.5	0	95.1626
GWC-4	186.5	0	105.335
GWC-4A	186.5	0	95.1626
GWC-8	186.5	0	95.1626
GWC-8A	186.5	0	95.1626
GWC-8R	219.583	33.0833	95.1626
GWC-9	186.5	0	95.1626
GWC-16A	186.5	0	95.1626
GWC-3	186.5	0	98.0417
GWC-5	186.5	0	95.1626
GWC-6	186.5	0	95.1626

**Individual Well Comparisons at Groupwise 5% Significance Level
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

Mean background rank is 186.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	186.5	0	126.411
GWC-23	186.5	0	126.411
GWC-23A	186.5	0	126.411
GWA-1A	186.5	0	126.411
GWC-10	186.5	0	126.411
GWC-10A	186.5	0	126.411
GWC-11	186.5	0	126.411
GWC-12	186.5	0	126.411
GWC-12A	186.5	0	126.411
GWC-13	186.5	0	126.411
GWC-15	345.208	158.708	126.411
GWC-17	186.5	0	130.236
GWC-18	234.042	47.5417	126.411
GWC-19R	186.5	0	126.411
GWC-22	186.5	0	126.411
GWC-24	186.5	0	126.411
GWC-7	186.5	0	126.411
GWC-14	186.5	0	130.236
GWC-14A	267.208	80.7083	126.411
GWC-14R	387	200.5	126.411
GWC-2	186.5	0	126.411
GWC-3A	186.5	0	126.411
GWC-4	186.5	0	139.924
GWC-4A	186.5	0	126.411
GWC-8	186.5	0	126.411
GWC-8A	186.5	0	126.411
GWC-8R	219.583	33.0833	126.411
GWC-9	186.5	0	126.411
GWC-16A	186.5	0	126.411
GWC-3	186.5	0	130.236
GWC-5	186.5	0	126.411
GWC-6	186.5	0	126.411

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	6/19/2018	ND<1	196
	12/17/2018	ND<1	196
	6/10/2019	ND<1	196
	12/9/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	12/15/2022	ND<1	196
	6/22/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2548
 Rank Mean = 196

GWA-2	6/19/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/11/2019	ND<1	196
	6/22/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
 Rank Mean = 196

Background Rank Sum = 4900
 Background Rank Mean = 196

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/18/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/22/2020	ND<1	196
	12/16/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/6/2022	ND<1	196
	12/13/2022	ND<1	196

	6/20/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
 Rank Mean = 196

GWC-23	6/18/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/24/2020	ND<1	196
	12/16/2020	ND<1	196
	6/14/2021	ND<1	196
	12/13/2021	ND<1	196
	6/6/2022	ND<1	196
	12/12/2022	ND<1	196
	6/21/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
 Rank Mean = 196

GWC-23A	6/18/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/24/2020	ND<1	196
	12/16/2020	ND<1	196
	6/14/2021	ND<1	196
	12/13/2021	ND<1	196
	6/6/2022	ND<1	196
	12/12/2022	ND<1	196
	6/21/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
 Rank Mean = 196

GWA-1A	6/19/2018	ND<1	196
	12/18/2018	ND<1	196
	6/10/2019	ND<1	196
	12/9/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/17/2021	ND<1	196
	12/16/2021	ND<1	196
	6/8/2022	ND<1	196
	12/14/2022	ND<1	196
	6/22/2023	ND<1	196
	12/13/2023	ND<1	196

Rank Sum = 2352
 Rank Mean = 196

GWC-10	6/19/2018	ND<1	196
	12/17/2018	ND<1	196
	6/10/2019	ND<1	196
	12/12/2019	ND<1	196
	6/24/2020	ND<1	196
	12/15/2020	ND<1	196
	6/15/2021	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/15/2021	ND<1	196
6/7/2022	ND<1	196
12/14/2022	ND<1	196
6/21/2023	ND<1	196
12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-10A	6/19/2018	ND<1	196
	12/17/2018	ND<1	196
	6/10/2019	ND<1	196
	12/12/2019	ND<1	196
	6/24/2020	ND<1	196
	12/15/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/7/2022	ND<1	196
	12/14/2022	ND<1	196
	6/21/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-11	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/12/2019	ND<1	196
	6/24/2020	ND<1	196
	12/15/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-12	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/11/2019	ND<1	196
	12/9/2019	ND<1	196
	6/24/2020	ND<1	196
	12/15/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-12A	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/11/2019	ND<1	196
	12/9/2019	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

6/24/2020	ND<1	196
12/15/2020	ND<1	196
6/15/2021	ND<1	196
12/13/2021	ND<1	196
6/7/2022	ND<1	196
12/12/2022	ND<1	196
6/20/2023	ND<1	196
12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-13	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-15	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/25/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/14/2021	ND<1	196
	6/9/2022	ND<1	196
	12/15/2022	ND<1	196
	6/22/2023	ND<1	196
	12/13/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-17	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/9/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196

Rank Sum = 2156
Rank Mean = 196

GWC-18	6/19/2018	ND<1	196
	12/18/2018	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

6/11/2019	ND<1	196
12/9/2019	ND<1	196
6/23/2020	ND<1	196
12/15/2020	ND<1	196
6/14/2021	ND<1	196
12/14/2021	ND<1	196
6/7/2022	ND<1	196
12/14/2022	ND<1	196
6/20/2023	ND<1	196
12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-19R	6/19/2018	ND<1	196
	12/18/2018	ND<1	196
	6/11/2019	ND<1	196
	12/9/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/6/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196
	12/13/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-22	6/19/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/14/2021	ND<1	196
	12/13/2021	ND<1	196
	6/6/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-24	6/19/2018	ND<1	196
	12/19/2018	ND<1	196
	6/11/2019	ND<1	196
	12/9/2019	ND<1	196
	6/24/2020	ND<1	196
	12/15/2020	ND<1	196
	6/14/2021	ND<1	196
	12/14/2021	ND<1	196
	6/7/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

GWC-7	6/19/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-14	6/20/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2156
Rank Mean = 196

GWC-14A	6/20/2018	6.2	395
	12/19/2018	4.9	394
	6/11/2019	4.3	393
	12/10/2019	4	392
	6/24/2020	7.5	396
	12/15/2020	11	397
	6/15/2021	12	398
	12/14/2021	19	402
	6/9/2022	19	403
	12/13/2022	14	399
	6/20/2023	16	400
	12/12/2023	16	401

Rank Sum = 4770
Rank Mean = 397.5

GWC-14R	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/14/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

Rank Sum = 2352
Rank Mean = 196

GWC-2	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/22/2020	ND<1	196
	12/16/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/19/2023	ND<1	196
	12/11/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-3A	6/20/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/16/2020	ND<1	196
	6/14/2021	ND<1	196
	12/15/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/19/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-4	6/20/2018	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/14/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 1764
Rank Mean = 196

GWC-4A	6/20/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/17/2021	ND<1	196
	12/15/2021	ND<1	196
	6/8/2022	ND<1	196
	12/14/2022	ND<1	196
	6/21/2023	ND<1	196
	12/13/2023	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

Rank Sum = 2352
Rank Mean = 196

GWC-8	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/16/2020	ND<1	196
	6/16/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-8A	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/16/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/13/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-8R	6/20/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/15/2020	ND<1	196
	6/16/2021	ND<1	196
	12/15/2021	ND<1	196
	6/9/2022	ND<1	196
	12/13/2022	ND<1	196
	6/21/2023	ND<1	196
	12/12/2023	ND<1	196

Rank Sum = 2352
Rank Mean = 196

GWC-9	6/20/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/12/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/7/2022	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/14/2022	ND<1	196
6/20/2023	ND<1	196
12/11/2023	ND<1	196
Rank Sum = 2352		
Rank Mean = 196		

GWC-16A	6/21/2018	ND<1	196
	12/19/2018	ND<1	196
	6/13/2019	ND<1	196
	12/11/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/16/2021	ND<1	196
	12/16/2021	ND<1	196
	6/9/2022	ND<1	196
	12/14/2022	ND<1	196
	6/20/2023	ND<1	196
	12/12/2023	ND<1	196
Rank Sum = 2352			
Rank Mean = 196			

GWC-3	6/21/2018	ND<1	196
	12/17/2018	ND<1	196
	6/11/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/16/2020	ND<1	196
	6/15/2021	ND<1	196
	12/15/2021	ND<1	196
	6/7/2022	ND<1	196
	12/12/2022	ND<1	196
	6/19/2023	ND<1	196
Rank Sum = 2156			
Rank Mean = 196			

GWC-5	6/21/2018	ND<1	196
	12/18/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/23/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196
	12/13/2021	ND<1	196
	6/8/2022	ND<1	196
	12/12/2022	ND<1	196
	6/20/2023	ND<1	196
	12/11/2023	ND<1	196
Rank Sum = 2352			
Rank Mean = 196			

GWC-6	6/21/2018	ND<1	196
	12/19/2018	ND<1	196
	6/12/2019	ND<1	196
	12/10/2019	ND<1	196
	6/24/2020	ND<1	196
	12/17/2020	ND<1	196
	6/15/2021	ND<1	196

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/13/2021	ND<1	196
6/8/2022	ND<1	196
12/14/2022	ND<1	196
6/20/2023	ND<1	196
12/12/2023	ND<1	196
Rank Sum = 2352		
Rank Mean = 196		

Rank Sum = 2352
Rank Mean = 196

Calculation Results:

Kruskal-Wallis H Statistic = 34.8416
 Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 401.878
 95% Confidence comparison value is 46.1942 at 32 degrees of freedom
 34.8416 < 46.1942 indicating no significant group difference at 5% significance level
401.878 > 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 196

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	196	0	95.1626
GWC-23	196	0	95.1626
GWC-23A	196	0	95.1626
GWA-1A	196	0	95.1626
GWC-10	196	0	95.1626
GWC-10A	196	0	95.1626
GWC-11	196	0	95.1626
GWC-12	196	0	95.1626
GWC-12A	196	0	95.1626
GWC-13	196	0	95.1626
GWC-15	196	0	95.1626
GWC-17	196	0	98.0417
GWC-18	196	0	95.1626
GWC-19R	196	0	95.1626
GWC-22	196	0	95.1626
GWC-24	196	0	95.1626
GWC-7	196	0	95.1626
GWC-14	196	0	98.0417
GWC-14A	397.5	201.5	95.1626
GWC-14R	196	0	95.1626
GWC-2	196	0	95.1626
GWC-3A	196	0	95.1626
GWC-4	196	0	105.335
GWC-4A	196	0	95.1626
GWC-8	196	0	95.1626
GWC-8A	196	0	95.1626
GWC-8R	196	0	95.1626
GWC-9	196	0	95.1626
GWC-16A	196	0	95.1626
GWC-3	196	0	98.0417
GWC-5	196	0	95.1626
GWC-6	196	0	95.1626

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 196

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	196	0	126.411
GWC-23	196	0	126.411
GWC-23A	196	0	126.411
GWA-1A	196	0	126.411
GWC-10	196	0	126.411
GWC-10A	196	0	126.411
GWC-11	196	0	126.411
GWC-12	196	0	126.411
GWC-12A	196	0	126.411
GWC-13	196	0	126.411
GWC-15	196	0	126.411
GWC-17	196	0	130.236
GWC-18	196	0	126.411
GWC-19R	196	0	126.411
GWC-22	196	0	126.411
GWC-24	196	0	126.411
GWC-7	196	0	126.411
GWC-14	196	0	130.236
GWC-14A	397.5	201.5	126.411
GWC-14R	196	0	126.411
GWC-2	196	0	126.411
GWC-3A	196	0	126.411
GWC-4	196	0	139.924
GWC-4A	196	0	126.411
GWC-8	196	0	126.411
GWC-8A	196	0	126.411
GWC-8R	196	0	126.411
GWC-9	196	0	126.411
GWC-16A	196	0	126.411
GWC-3	196	0	130.236
GWC-5	196	0	126.411
GWC-6	196	0	126.411

Kruskal-Wallis Non-Parametric Test**Parameter: Zinc**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	6/20/2018	48	359
	12/18/2018	44	355
	6/11/2019	42	351
	12/10/2019	30.4	327
	6/24/2020	30.7	328
	12/18/2020	21.1	285
	6/16/2021	21.6	287
	12/14/2021	22.3	292
	6/9/2022	30.8	329
	12/12/2022	ND<10	139
	12/15/2022	20.5	280
	6/22/2023	20.5	281
	12/13/2023	30.1	326

Rank Sum = 3939

Rank Mean = 303

GWA-2	6/20/2018	ND<10	139
	12/18/2018	ND<10	139
	6/12/2019	30	324
	12/12/2019	25.9	311
	6/23/2020	ND<10	139
	12/18/2020	ND<10	139
	6/16/2021	ND<10	139
	12/14/2021	ND<10	139
	6/9/2022	ND<10	139
	12/13/2022	ND<10	139
	6/21/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 2025

Rank Mean = 168.75

Background Rank Sum = 5964

Background Rank Mean = 238.56

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/19/2018	41	346
	12/18/2018	ND<10	139
	6/12/2019	ND<10	139
	12/11/2019	71.5	369
	6/23/2020	20.3	279
	12/17/2020	ND<10	139
	6/15/2021	ND<10	139
	12/15/2021	ND<10	139
	6/7/2022	ND<10	139
	12/14/2022	ND<10	139

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

6/21/2023	ND<10	139
12/12/2023	ND<10	139

Rank Sum = 2245
Rank Mean = 187.083

GWC-23	6/19/2018	ND<10	139
	12/19/2018	ND<10	139
	6/13/2019	ND<10	139
	12/12/2019	ND<10	139
	6/24/2020	ND<10	139
	12/17/2020	ND<10	139
	6/15/2021	ND<10	139
	12/14/2021	ND<10	139
	6/7/2022	ND<10	139
	12/13/2022	ND<10	139
	6/22/2023	ND<10	139
	12/12/2023	34	334

Rank Sum = 1863
Rank Mean = 155.25

GWC-23A	6/19/2018	ND<10	139
	12/19/2018	ND<10	139
	6/13/2019	ND<10	139
	12/12/2019	31.6	331
	6/24/2020	ND<10	139
	12/17/2020	ND<10	139
	6/15/2021	ND<10	139
	12/14/2021	ND<10	139
	6/7/2022	ND<10	139
	12/13/2022	ND<10	139
	6/22/2023	ND<10	139
	12/12/2023	ND<10	139

Rank Sum = 1860
Rank Mean = 155

GWA-1A	6/20/2018	ND<10	139
	12/18/2018	ND<10	139
	6/10/2019	ND<10	139
	12/9/2019	ND<10	139
	6/23/2020	ND<10	139
	12/17/2020	ND<10	139
	6/17/2021	ND<10	139
	12/16/2021	ND<10	139
	6/8/2022	ND<10	139
	12/14/2022	ND<10	139
	6/22/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1668
Rank Mean = 139

GWC-10	6/20/2018	41	347
	12/18/2018	22	290
	6/11/2019	24	299
	12/13/2019	86.4	372
	6/25/2020	27.9	321
	12/16/2020	ND<10	139
	6/16/2021	ND<10	139

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

12/16/2021	ND<10	139
6/8/2022	ND<10	139
12/15/2022	ND<10	139
6/22/2023	ND<10	139
12/12/2023	ND<10	139

Rank Sum = 2602
Rank Mean = 216.833

GWC-10A	6/20/2018	ND<10	139
	12/18/2018	38	339
	6/11/2019	ND<10	139
	12/13/2019	31.2	330
	6/25/2020	ND<10	139
	12/16/2020	ND<10	139
	6/16/2021	ND<10	139
	12/16/2021	ND<10	139
	6/8/2022	ND<10	139
	12/15/2022	21.6	288
	6/22/2023	21.3	286
	12/12/2023	ND<10	139

Rank Sum = 2355
Rank Mean = 196.25

GWC-11	6/20/2018	26	312
	12/20/2018	ND<10	139
	6/13/2019	34	335
	12/13/2019	23.3	297
	6/25/2020	40	344
	12/16/2020	ND<10	139
	6/16/2021	ND<10	139
	12/14/2021	ND<10	139
	6/8/2022	ND<10	139
	12/13/2022	58.6	365
	6/21/2023	ND<10	139
	12/12/2023	ND<10	139

Rank Sum = 2626
Rank Mean = 218.833

GWC-12	6/20/2018	ND<10	139
	12/20/2018	ND<10	139
	6/12/2019	ND<10	139
	12/10/2019	ND<10	139
	6/25/2020	ND<10	139
	12/22/2020	ND<10	139
	6/16/2021	ND<10	139
	12/14/2021	ND<10	139
	6/8/2022	ND<10	139
	12/13/2022	ND<10	139
	6/21/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1668
Rank Mean = 139

GWC-12A	6/20/2018	26	313
	12/20/2018	ND<10	139
	6/12/2019	ND<10	139
	12/10/2019	ND<10	139

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

6/25/2020	ND<10	139
12/16/2020	ND<10	139
6/16/2021	ND<10	139
12/14/2021	ND<10	139
6/8/2022	ND<10	139
12/13/2022	ND<10	139
6/21/2023	ND<10	139
12/13/2023	ND<10	139

Rank Sum = 1842
Rank Mean = 153.5

GWC-13	6/20/2018	ND<10	139
	12/20/2018	ND<10	139
	6/13/2019	ND<10	139
	12/12/2019	23.6	298
	6/24/2020	ND<10	139
	12/16/2020	ND<10	139
	6/16/2021	ND<10	139
	12/16/2021	ND<10	139
	6/9/2022	ND<10	139
	12/13/2022	ND<10	139
	6/21/2023	ND<10	139
	12/13/2023	22.3	293

Rank Sum = 1981
Rank Mean = 165.083

GWC-15	6/20/2018	56	363
	12/19/2018	ND<10	139
	6/11/2019	ND<10	139
	12/10/2019	ND<10	139
	6/25/2020	ND<10	139
	12/17/2020	ND<10	139
	6/16/2021	ND<10	139
	12/14/2021	ND<10	139
	6/9/2022	24.9	306
	12/15/2022	ND<10	139
	6/22/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 2059
Rank Mean = 171.583

GWC-17	6/20/2018	ND<10	139
	12/20/2018	27	317
	6/13/2019	24	300
	12/11/2019	ND<10	139
	6/24/2020	ND<10	139
	12/16/2020	ND<10	139
	6/15/2021	ND<10	139
	12/15/2021	ND<10	139
	6/10/2022	ND<10	139
	12/15/2022	ND<10	139
	6/21/2023	ND<10	139

Rank Sum = 1868
Rank Mean = 169.818

GWC-18	6/20/2018	ND<10	139
	12/19/2018	26	314

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

6/12/2019	ND<10	139
12/10/2019	38.7	342
6/24/2020	ND<10	139
12/16/2020	ND<10	139
6/15/2021	ND<10	139
12/15/2021	ND<10	139
6/8/2022	ND<10	139
12/15/2022	ND<10	139
6/21/2023	ND<10	139
12/13/2023	ND<10	139

Rank Sum = 2046
Rank Mean = 170.5

GWC-19R	6/20/2018	21	283
	12/19/2018	ND<10	139
	6/12/2019	ND<10	139
	12/10/2019	ND<10	139
	6/24/2020	ND<10	139
	12/16/2020	ND<10	139
	6/15/2021	ND<10	139
	12/15/2021	ND<10	139
	6/7/2022	ND<10	139
	12/15/2022	ND<10	139
	6/21/2023	ND<10	139
	12/14/2023	33.5	333

Rank Sum = 2006
Rank Mean = 167.167

GWC-22	6/20/2018	21	284
	12/19/2018	ND<10	139
	6/13/2019	ND<10	139
	12/12/2019	ND<10	139
	6/24/2020	ND<10	139
	12/18/2020	ND<10	139
	6/15/2021	ND<10	139
	12/14/2021	ND<10	139
	6/7/2022	ND<10	139
	12/13/2022	ND<10	139
	6/21/2023	ND<10	139
	12/12/2023	ND<10	139

Rank Sum = 1813
Rank Mean = 151.083

GWC-24	6/20/2018	ND<10	139
	6/12/2019	ND<10	139
	12/10/2019	24	301
	6/25/2020	ND<10	139
	6/15/2021	ND<10	139
	6/8/2022	ND<10	139
	12/15/2022	ND<10	139
	6/21/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1413
Rank Mean = 157

GWC-7	6/20/2018	30	325
	12/19/2018	110	373

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

6/13/2019	23	294
12/12/2019	42.2	353
6/25/2020	ND<10	139
12/18/2020	ND<10	139
6/16/2021	ND<10	139
12/14/2021	ND<10	139
6/9/2022	24	302
12/13/2022	35.3	338
6/21/2023	ND<10	139
12/12/2023	ND<10	139

Rank Sum = 2819
Rank Mean = 234.917

GWC-16A	6/21/2018	44	356
	12/20/2018	ND<10	139
	6/13/2019	ND<10	139
	12/12/2019	ND<10	139
	6/23/2020	ND<10	139
	12/17/2020	ND<10	139
	6/16/2021	ND<10	139
	12/16/2021	ND<10	139
	6/10/2022	34.1	337
	12/15/2022	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1944
Rank Mean = 176.727

GWC-14	6/21/2018	67	367
	6/12/2019	ND<10	139
	12/11/2019	27.7	319
	6/25/2020	25.3	310
	12/18/2020	ND<10	139
	6/16/2021	ND<10	139
	12/16/2021	ND<10	139
	6/10/2022	22.1	291
	6/22/2023	21.9	289

Rank Sum = 2132
Rank Mean = 236.889

GWC-14A	6/21/2018	20	278
	12/19/2018	ND<10	139
	6/12/2019	ND<10	139
	12/11/2019	ND<10	139
	6/24/2020	ND<10	139
	12/16/2020	ND<10	139
	6/16/2021	ND<10	139
	12/15/2021	26	315
	6/10/2022	ND<10	139
	12/14/2022	ND<10	139
	6/21/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1983
Rank Mean = 165.25

GWC-2	6/21/2018	ND<10	139
	12/20/2018	23	295
	6/13/2019	28	322

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

12/11/2019	25	307
6/23/2020	27.8	320
12/17/2020	ND<10	139
6/16/2021	ND<10	139
12/16/2021	ND<10	139
6/8/2022	ND<10	139
12/13/2022	ND<10	139
6/20/2023	ND<10	139
12/12/2023	ND<10	139

Rank Sum = 2356
Rank Mean = 196.333

GWC-3	6/21/2018	ND<10	139
	12/18/2018	ND<10	139
	6/12/2019	ND<10	139
	12/11/2019	ND<10	139
	6/25/2020	ND<10	139
	12/17/2020	ND<10	139
	6/16/2021	ND<10	139
	12/16/2021	ND<10	139
	6/8/2022	25.1	309
	6/20/2023	ND<10	139

Rank Sum = 1560
Rank Mean = 156

GWC-3A	6/21/2018	ND<10	139
	12/18/2018	ND<10	139
	6/12/2019	24	303
	12/11/2019	28.8	323
	6/25/2020	33.1	332
	12/17/2020	ND<10	139
	6/15/2021	20.6	282
	12/16/2021	ND<10	139
	6/8/2022	ND<10	139
	12/13/2022	ND<10	139
	6/20/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 2352
Rank Mean = 196

GWC-4	6/21/2018	25	308
	6/24/2020	ND<10	139
	12/18/2020	ND<10	139
	6/17/2021	43.2	354
	12/15/2021	ND<10	139
	6/9/2022	39.4	343
	12/13/2022	ND<10	139
	6/21/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1839
Rank Mean = 204.333

GWC-4A	6/21/2018	ND<10	139
	12/18/2018	ND<10	139
	6/12/2019	23	296
	12/12/2019	50	362
	6/24/2020	ND<10	139

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

12/18/2020	ND<10	139
6/18/2021	ND<10	139
12/16/2021	ND<10	139
6/8/2022	24.5	304
12/15/2022	ND<10	139
6/22/2023	57	364
12/13/2023	ND<10	139

Rank Sum = 2438
Rank Mean = 203.167

GWC-5	6/21/2018	ND<10	139
	12/19/2018	26	316
	6/13/2019	ND<10	139
	12/11/2019	38.3	341
	6/24/2020	ND<10	139
	12/18/2020	ND<10	139
	6/16/2021	ND<10	139
	12/14/2021	ND<10	139
	6/9/2022	27.2	318
	12/13/2022	ND<10	139
	6/21/2023	ND<10	139
	12/12/2023	ND<10	139

Rank Sum = 2226
Rank Mean = 185.5

GWC-6	6/21/2018	ND<10	139
	12/20/2018	ND<10	139
	6/13/2019	ND<10	139
	12/11/2019	ND<10	139
	6/25/2020	ND<10	139
	12/18/2020	ND<10	139
	6/16/2021	79	371
	12/14/2021	ND<10	139
	6/9/2022	ND<10	139
	12/15/2022	ND<10	139
	6/21/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1900
Rank Mean = 158.333

GWC-8	6/21/2018	ND<10	139
	6/13/2019	ND<10	139
	12/12/2019	ND<10	139
	6/24/2020	ND<10	139
	12/17/2020	ND<10	139
	6/17/2021	ND<10	139
	12/16/2021	ND<10	139
	6/10/2022	ND<10	139
	12/14/2022	ND<10	139
	6/22/2023	ND<10	139
	12/13/2023	ND<10	139

Rank Sum = 1529
Rank Mean = 139

GWC-8A	6/21/2018	34	336
	12/20/2018	42	352
	6/13/2019	ND<10	139

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Zinc

12/12/2019	ND<10	139
6/24/2020	ND<10	139
12/16/2020	ND<10	139
6/17/2021	ND<10	139
12/16/2021	ND<10	139
6/10/2022	ND<10	139
12/14/2022	ND<10	139
6/22/2023	ND<10	139
12/14/2023	ND<10	139

Rank Sum = 2078
Rank Mean = 173.167

GWC-9	6/21/2018	45	357
	12/19/2018	38	340
	6/13/2019	60	366
	12/13/2019	78	370
	6/25/2020	45.9	358
	12/18/2020	41.9	350
	6/16/2021	41.8	349
	12/14/2021	49.9	361
	6/8/2022	68.7	368
	12/15/2022	41.6	348
	6/21/2023	40.4	345
	12/12/2023	48	360

Rank Sum = 4272
Rank Mean = 356

GWC-14R	6/9/2022	ND<10	139
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Rank Sum = 139
Rank Mean = 139

GWC-8R	6/9/2022	24.6	305
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Rank Sum = 305
Rank Mean = 305

Calculation Results:

Kruskal-Wallis H Statistic = 60.0123
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 101.639
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
60.0123 > 46.1942 indicating a significant group difference at 5% significance level
101.639 > 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 238.56

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	187.083	-51.4767	88.0873
GWC-23	155.25	-83.31	88.0873
GWC-23A	155	-83.56	88.0873
GWA-1A	139	-99.56	88.0873
GWC-10	216.833	-21.7267	88.0873
GWC-10A	196.25	-42.31	88.0873
GWC-11	218.833	-19.7267	88.0873
GWC-12	139	-99.56	88.0873
GWC-12A	153.5	-85.06	88.0873

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

GWC-13	165.083	-73.4767	88.0873
GWC-15	171.583	-66.9767	88.0873
GWC-17	169.818	-68.7418	90.7524
GWC-18	170.5	-68.06	88.0873
GWC-19R	167.167	-71.3933	88.0873
GWC-22	151.083	-87.4767	88.0873
GWC-24	157	-81.56	97.5038
GWC-7	234.917	-3.64333	88.0873
GWC-16A	176.727	-61.8327	90.7524
GWC-14	236.889	-1.67111	97.5038
GWC-14A	165.25	-73.31	88.0873
GWC-2	196.333	-42.2267	88.0873
GWC-3	156	-82.56	93.8506
GWC-3A	196	-42.56	88.0873
GWC-4	204.333	-34.2267	97.5038
GWC-4A	203.167	-35.3933	88.0873
GWC-5	185.5	-53.06	88.0873
GWC-6	158.333	-80.2267	88.0873
GWC-8	139	-99.56	90.7524
GWC-8A	173.167	-65.3933	88.0873
GWC-9	356	117.44	88.0873
GWC-14R	139	-99.56	255.794
GWC-8R	305	66.44	255.794

**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 238.56

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	187.083	-51.4767	117.013
GWC-23	155.25	-83.31	117.013
GWC-23A	155	-83.56	117.013
GWA-1A	139	-99.56	117.013
GWC-10	216.833	-21.7267	117.013
GWC-10A	196.25	-42.31	117.013
GWC-11	218.833	-19.7267	117.013
GWC-12	139	-99.56	117.013
GWC-12A	153.5	-85.06	117.013
GWC-13	165.083	-73.4767	117.013
GWC-15	171.583	-66.9767	117.013
GWC-17	169.818	-68.7418	120.553
GWC-18	170.5	-68.06	117.013
GWC-19R	167.167	-71.3933	117.013
GWC-22	151.083	-87.4767	117.013
GWC-24	157	-81.56	129.521
GWC-7	234.917	-3.64333	117.013
GWC-16A	176.727	-61.8327	120.553
GWC-14	236.889	-1.67111	129.521
GWC-14A	165.25	-73.31	117.013
GWC-2	196.333	-42.2267	117.013
GWC-3	156	-82.56	124.668
GWC-3A	196	-42.56	117.013
GWC-4	204.333	-34.2267	129.521
GWC-4A	203.167	-35.3933	117.013
GWC-5	185.5	-53.06	117.013
GWC-6	158.333	-80.2267	117.013
GWC-8	139	-99.56	120.553

**STATISTICAL ANALYSIS:
Non-Parametric Tolerance Interval Test**

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2023 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	GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	96%
1,1-Dichloroethane	PH1-GWB-2	FALSE	96%
1,1-Dichloroethane	PH1-GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWC-2	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%
Barium	PH1-GWA-2	TRUE	96%
Barium	PH1-GWB-1	TRUE	96%
Barium	PH1-GWC-2	TRUE	96%
Barium	GWC-1	TRUE	96%
Barium	PH1-GWA-1	TRUE	96%
Barium	PH1-GWA-1A	TRUE	96%
Barium	PH1-GWB-2	FALSE	96%
Barium	PH1-GWC-1	TRUE	96%
Barium	PH1-GWC-3	TRUE	96%
Barium	PH1-GWC-4	FALSE	96%
Barium	PH1-GWC-3A	TRUE	96%
Chromium	PH1-GWA-2	FALSE	96%
Chromium	PH1-GWB-1	FALSE	96%
Chromium	PH1-GWC-2	TRUE	96%
Chromium	GWC-1	FALSE	96%
Chromium	PH1-GWA-1	FALSE	96%
Chromium	PH1-GWA-1A	FALSE	96%
Chromium	PH1-GWB-2	FALSE	96%
Chromium	PH1-GWC-1	FALSE	96%
Chromium	PH1-GWC-3	FALSE	96%
Chromium	PH1-GWC-4	FALSE	96%
Chromium	PH1-GWC-3A	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	96%
cis-1,2-Dichloroethene	GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I
 Second 2023 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWC-3	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	96%
Cobalt	PH1-GWA-2	FALSE	96%
Cobalt	PH1-GWB-1	FALSE	96%
Cobalt	PH1-GWC-2	FALSE	96%
Cobalt	GWC-1	FALSE	96%
Cobalt	PH1-GWA-1	TRUE	96%
Cobalt	PH1-GWA-1A	FALSE	96%
Cobalt	PH1-GWB-2	FALSE	96%
Cobalt	PH1-GWC-1	FALSE	96%
Cobalt	PH1-GWC-3	FALSE	96%
Cobalt	PH1-GWC-4	FALSE	96%
Cobalt	PH1-GWC-3A	FALSE	96%
Nickel	PH1-GWA-2	FALSE	96%
Nickel	PH1-GWB-1	FALSE	96%
Nickel	PH1-GWC-2	FALSE	96%
Nickel	GWC-1	FALSE	96%
Nickel	PH1-GWA-1	FALSE	96%
Nickel	PH1-GWA-1A	FALSE	96%
Nickel	PH1-GWB-2	FALSE	96%
Nickel	PH1-GWC-1	FALSE	96%
Nickel	PH1-GWC-3	FALSE	96%
Nickel	PH1-GWC-4	FALSE	96%
Nickel	PH1-GWC-3A	FALSE	96%
Tetrachloroethene	PH1-GWA-2	FALSE	96%
Tetrachloroethene	PH1-GWB-1	FALSE	96%
Tetrachloroethene	GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1A	FALSE	96%
Tetrachloroethene	PH1-GWB-2	FALSE	96%
Tetrachloroethene	PH1-GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWC-2	TRUE	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%

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 2023 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWB-1	FALSE	96%
Trichloroethene	GWC-1	FALSE	96%
Trichloroethene	PH1-GWA-1	FALSE	96%
Trichloroethene	PH1-GWA-1A	FALSE	96%
Trichloroethene	PH1-GWB-2	FALSE	96%
Trichloroethene	PH1-GWC-1	FALSE	96%
Trichloroethene	PH1-GWC-2	TRUE	96%
Trichloroethene	PH1-GWC-3	FALSE	96%
Trichloroethene	PH1-GWC-3A	TRUE	96%
Trichloroethene	PH1-GWC-4	FALSE	96%
Zinc	PH1-GWA-2	FALSE	96%
Zinc	PH1-GWB-1	FALSE	96%
Zinc	PH1-GWC-2	FALSE	96%
Zinc	GWC-1	FALSE	96%
Zinc	PH1-GWA-1	FALSE	96%
Zinc	PH1-GWA-1A	FALSE	96%
Zinc	PH1-GWB-2	FALSE	96%
Zinc	PH1-GWC-1	FALSE	96%
Zinc	PH1-GWC-3	FALSE	96%
Zinc	PH1-GWC-4	FALSE	96%
Zinc	PH1-GWC-3A	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 = 80.3922%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/16/2021	ND<2	FALSE
PH1-GWA-2	12/14/2021	ND<2	FALSE
PH1-GWA-2	6/7/2022	ND<2	FALSE
PH1-GWA-2	12/14/2022	ND<2	FALSE
PH1-GWA-2	6/21/2023	ND<2	FALSE
PH1-GWA-2	12/13/2023	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-GWB-1	6/14/2021	ND<2	FALSE
PH1-GWB-1	12/13/2021	ND<2	FALSE
PH1-GWB-1	6/7/2022	ND<2	FALSE
PH1-GWB-1	12/12/2022	ND<2	FALSE
PH1-GWB-1	6/20/2023	ND<2	FALSE
PH1-GWB-1	12/12/2023	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
GWC-1	6/15/2021	ND<2	FALSE
GWC-1	12/15/2021	ND<2	FALSE
GWC-1	6/7/2022	ND<2	FALSE
GWC-1	12/12/2022	ND<2	FALSE
GWC-1	6/19/2023	ND<2	FALSE
GWC-1	12/11/2023	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-1	6/15/2021	ND<2	FALSE
PH1-GWA-1	12/13/2021	ND<2	FALSE
PH1-GWA-1	6/8/2022	ND<2	FALSE
PH1-GWA-1	12/14/2022	ND<2	FALSE
PH1-GWA-1	6/20/2023	ND<2	FALSE
PH1-GWA-1	12/13/2023	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-GWA-1A	6/15/2021	ND<2	FALSE
PH1-GWA-1A	12/13/2021	ND<2	FALSE
PH1-GWA-1A	6/8/2022	ND<2	FALSE
PH1-GWA-1A	12/15/2022	ND<2	FALSE
PH1-GWA-1A	6/22/2023	ND<2	FALSE
PH1-GWA-1A	12/11/2023	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-GWB-2	6/16/2021	ND<2	FALSE
PH1-GWB-2	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/9/2022	ND<2	FALSE
PH1-GWB-2	12/12/2022	ND<2	FALSE
PH1-GWB-2	6/20/2023	ND<2	FALSE
PH1-GWB-2	12/12/2023	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-1	6/16/2021	ND<2	FALSE
PH1-GWC-1	12/15/2021	ND<2	FALSE
PH1-GWC-1	6/9/2022	ND<2	FALSE
PH1-GWC-1	12/14/2022	ND<2	FALSE
PH1-GWC-1	6/19/2023	ND<2	FALSE
PH1-GWC-1	12/13/2023	ND<2	FALSE

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
PH1-GWC-2	6/17/2021	3	TRUE
PH1-GWC-2	12/14/2021	2.9	TRUE
PH1-GWC-2	6/8/2022	ND<2	FALSE
PH1-GWC-2	12/14/2022	2.4	TRUE
PH1-GWC-2	6/22/2023	ND<2	FALSE
PH1-GWC-2	12/14/2023	ND<2	FALSE

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-3	6/14/2021	3.4	TRUE
PH1-GWC-3	12/14/2021	3.2	TRUE
PH1-GWC-3	6/7/2022	3.2	TRUE
PH1-GWC-3	12/15/2022	4.5	TRUE
PH1-GWC-3	6/22/2023	3.4	TRUE
PH1-GWC-3	12/13/2023	4.3	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-3A	6/14/2021	2.8	TRUE
PH1-GWC-3A	12/14/2021	2.3	TRUE
PH1-GWC-3A	6/7/2022	3.1	TRUE
PH1-GWC-3A	12/15/2022	3.6	TRUE
PH1-GWC-3A	6/22/2023	ND<2	FALSE
PH1-GWC-3A	12/13/2023	2.5	TRUE

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
PH1-GWC-4	6/16/2021	ND<2	FALSE
PH1-GWC-4	12/15/2021	ND<2	FALSE
PH1-GWC-4	6/6/2022	ND<2	FALSE
PH1-GWC-4	6/19/2023	ND<2	FALSE

Non-Parametric Tolerance Interval**Parameter: Barium**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 26.1438%

Background measurements (n) = 24

Maximum Background Concentration = 20

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/17/2021	71.7	TRUE
PH1-GWA-2	12/15/2021	71.6	TRUE
PH1-GWA-2	6/8/2022	59	TRUE
PH1-GWA-2	12/15/2022	68.9	TRUE
PH1-GWA-2	6/22/2023	48.5	TRUE
PH1-GWA-2	12/14/2023	76.8	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-GWB-1	6/15/2021	63.1	TRUE
PH1-GWB-1	12/14/2021	56.8	TRUE
PH1-GWB-1	6/8/2022	53.7	TRUE
PH1-GWB-1	12/13/2022	40.1	TRUE
PH1-GWB-1	6/21/2023	45.1	TRUE
PH1-GWB-1	12/13/2023	46	TRUE

PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	26	TRUE
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	TRUE
PH1-GWC-2	12/17/2020	ND<20	FALSE
PH1-GWC-2	6/17/2021	20.6	TRUE
PH1-GWC-2	12/17/2021	ND<20	FALSE
PH1-GWC-2	6/8/2022	20.9	TRUE
PH1-GWC-2	12/14/2022	24.7	TRUE
PH1-GWC-2	6/22/2023	48.5	TRUE
PH1-GWC-2	12/14/2023	48.2	TRUE

GWC-1	6/20/2018	94	TRUE
GWC-1	12/18/2018	150	TRUE

Forsyth County - Hightower Road Landfill - Phase I

Barium

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
GWC-1	6/16/2021	86.1	TRUE
GWC-1	12/16/2021	84	TRUE
GWC-1	6/8/2022	79.1	TRUE
GWC-1	12/13/2022	93.1	TRUE
GWC-1	6/20/2023	95.1	TRUE
GWC-1	12/12/2023	112	TRUE

PH1-GWA-1	6/20/2018	34	TRUE
PH1-GWA-1	12/19/2018	24	TRUE
PH1-GWA-1	6/11/2019	24	TRUE
PH1-GWA-1	12/10/2019	20.3	TRUE
PH1-GWA-1	6/23/2020	27.7	TRUE
PH1-GWA-1	12/16/2020	ND<20	FALSE
PH1-GWA-1	6/16/2021	28.7	TRUE
PH1-GWA-1	12/14/2021	22.8	TRUE
PH1-GWA-1	6/9/2022	25.3	TRUE
PH1-GWA-1	12/15/2022	ND<20	FALSE
PH1-GWA-1	6/21/2023	24.6	TRUE
PH1-GWA-1	12/14/2023	24.3	TRUE

PH1-GWA-1A	6/20/2018	25	TRUE
PH1-GWA-1A	12/19/2018	27	TRUE
PH1-GWA-1A	6/11/2019	24	TRUE
PH1-GWA-1A	12/10/2019	23.4	TRUE
PH1-GWA-1A	6/22/2020	21.7	TRUE
PH1-GWA-1A	12/18/2020	27.4	TRUE
PH1-GWA-1A	6/16/2021	24.8	TRUE
PH1-GWA-1A	12/14/2021	22.6	TRUE
PH1-GWA-1A	6/8/2022	25.9	TRUE
PH1-GWA-1A	12/15/2022	35.1	TRUE
PH1-GWA-1A	6/22/2023	25.4	TRUE
PH1-GWA-1A	12/12/2023	25.6	TRUE

PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	22	TRUE
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-GWB-2	6/17/2021	ND<20	FALSE
PH1-GWB-2	12/14/2021	ND<20	FALSE
PH1-GWB-2	6/10/2022	ND<20	FALSE
PH1-GWB-2	12/13/2022	ND<20	FALSE
PH1-GWB-2	6/21/2023	20.2	TRUE
PH1-GWB-2	12/13/2023	ND<20	FALSE

PH1-GWC-1	6/20/2018	42	TRUE
PH1-GWC-1	12/20/2018	47	TRUE
PH1-GWC-1	6/13/2019	50	TRUE

Forsyth County - Hightower Road Landfill - Phase I

Barium

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	TRUE
PH1-GWC-1	6/17/2021	42.1	TRUE
PH1-GWC-1	12/16/2021	30.6	TRUE
PH1-GWC-1	6/10/2022	42	TRUE
PH1-GWC-1	12/15/2022	34.3	TRUE
PH1-GWC-1	6/20/2023	39.9	TRUE
PH1-GWC-1	12/14/2023	32.7	TRUE

PH1-GWC-3	6/20/2018	23	TRUE
PH1-GWC-3	12/19/2018	27	TRUE
PH1-GWC-3	6/11/2019	30	TRUE
PH1-GWC-3	12/10/2019	24.7	TRUE
PH1-GWC-3	6/23/2020	23.6	TRUE
PH1-GWC-3	12/16/2020	25.6	TRUE
PH1-GWC-3	6/15/2021	24.3	TRUE
PH1-GWC-3	12/15/2021	28.8	TRUE
PH1-GWC-3	6/8/2022	25.5	TRUE
PH1-GWC-3	12/15/2022	29.2	TRUE
PH1-GWC-3	6/22/2023	27.6	TRUE
PH1-GWC-3	12/14/2023	36.8	TRUE

PH1-GWC-4	6/20/2018	34	TRUE
PH1-GWC-4	12/20/2018	310	TRUE
PH1-GWC-4	6/13/2019	32	TRUE
PH1-GWC-4	6/23/2020	25.2	TRUE
PH1-GWC-4	12/18/2020	56.4	TRUE
PH1-GWC-4	6/17/2021	33	TRUE
PH1-GWC-4	12/16/2021	41.3	TRUE
PH1-GWC-4	6/7/2022	26.6	TRUE
PH1-GWC-4	6/20/2023	22.6	TRUE

PH1-GWC-3A	6/28/2018	26	TRUE
PH1-GWC-3A	12/19/2018	24	TRUE
PH1-GWC-3A	6/11/2019	30	TRUE
PH1-GWC-3A	12/10/2019	24.9	TRUE
PH1-GWC-3A	6/23/2020	23.9	TRUE
PH1-GWC-3A	12/16/2020	25.9	TRUE
PH1-GWC-3A	6/15/2021	30.5	TRUE
PH1-GWC-3A	12/15/2021	28.5	TRUE
PH1-GWC-3A	6/8/2022	30.1	TRUE
PH1-GWC-3A	12/15/2022	28.2	TRUE
PH1-GWC-3A	6/22/2023	26.9	TRUE
PH1-GWC-3A	12/14/2023	31.9	TRUE

Non-Parametric Tolerance Interval

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.8105%

Background measurements (n) = 24

Maximum Background Concentration = 10

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/17/2021	ND<10	FALSE
PH1-GWA-2	12/15/2021	ND<10	FALSE
PH1-GWA-2	6/8/2022	ND<20	TRUE
PH1-GWA-2	12/15/2022	ND<10	FALSE
PH1-GWA-2	6/22/2023	ND<10	FALSE
PH1-GWA-2	12/14/2023	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-GWB-1	6/15/2021	ND<10	FALSE
PH1-GWB-1	12/14/2021	ND<10	FALSE
PH1-GWB-1	6/8/2022	ND<10	FALSE
PH1-GWB-1	12/13/2022	ND<10	FALSE
PH1-GWB-1	6/21/2023	ND<10	FALSE
PH1-GWB-1	12/13/2023	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-GWC-2	6/17/2021	ND<10	FALSE
PH1-GWC-2	12/17/2021	ND<10	FALSE
PH1-GWC-2	6/8/2022	15.7	TRUE
PH1-GWC-2	12/14/2022	11.5	TRUE
PH1-GWC-2	6/22/2023	37	TRUE
PH1-GWC-2	12/14/2023	17.4	TRUE

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
GWC-1	6/16/2021	ND<10	FALSE
GWC-1	12/16/2021	ND<10	FALSE
GWC-1	6/8/2022	ND<10	FALSE
GWC-1	12/13/2022	ND<10	FALSE
GWC-1	6/20/2023	ND<10	FALSE
GWC-1	12/12/2023	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
PH1-GWA-1	6/16/2021	ND<10	FALSE
PH1-GWA-1	12/14/2021	ND<10	FALSE
PH1-GWA-1	6/9/2022	ND<10	FALSE
PH1-GWA-1	12/15/2022	ND<10	FALSE
PH1-GWA-1	6/21/2023	ND<10	FALSE
PH1-GWA-1	12/14/2023	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-1A	6/16/2021	ND<10	FALSE
PH1-GWA-1A	12/14/2021	ND<10	FALSE
PH1-GWA-1A	6/8/2022	19.9	TRUE
PH1-GWA-1A	12/15/2022	17.2	TRUE
PH1-GWA-1A	6/22/2023	ND<10	FALSE
PH1-GWA-1A	12/12/2023	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-GWB-2	6/17/2021	ND<10	FALSE
PH1-GWB-2	12/14/2021	ND<10	FALSE
PH1-GWB-2	6/10/2022	ND<10	FALSE
PH1-GWB-2	12/13/2022	ND<10	FALSE
PH1-GWB-2	6/21/2023	ND<10	FALSE
PH1-GWB-2	12/13/2023	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

Forsyth County - Hightower Road Landfill - Phase I

Chromium

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-1	6/17/2021	ND<10	FALSE
PH1-GWC-1	12/16/2021	ND<10	FALSE
PH1-GWC-1	6/10/2022	ND<10	FALSE
PH1-GWC-1	12/15/2022	ND<10	FALSE
PH1-GWC-1	6/20/2023	ND<10	FALSE
PH1-GWC-1	12/14/2023	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-3	6/15/2021	ND<10	FALSE
PH1-GWC-3	12/15/2021	ND<10	FALSE
PH1-GWC-3	6/8/2022	ND<20	TRUE
PH1-GWC-3	12/15/2022	ND<10	FALSE
PH1-GWC-3	6/22/2023	ND<10	FALSE
PH1-GWC-3	12/14/2023	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
PH1-GWC-4	6/17/2021	ND<10	FALSE
PH1-GWC-4	12/16/2021	ND<10	FALSE
PH1-GWC-4	6/7/2022	ND<10	FALSE
PH1-GWC-4	6/20/2023	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-3A	6/15/2021	ND<10	FALSE
PH1-GWC-3A	12/15/2021	ND<10	FALSE
PH1-GWC-3A	6/8/2022	ND<20	TRUE
PH1-GWC-3A	12/15/2022	ND<10	FALSE
PH1-GWC-3A	6/22/2023	ND<10	FALSE
PH1-GWC-3A	12/14/2023	ND<10	FALSE

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 61.4379%
 Background measurements (n) = 24
 Maximum Background Concentration = 2
 Minimum Coverage = 88.3%
 Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/16/2021	34	TRUE
PH1-GWA-2	12/14/2021	35	TRUE
PH1-GWA-2	6/7/2022	26	TRUE
PH1-GWA-2	12/14/2022	35	TRUE
PH1-GWA-2	6/21/2023	16	TRUE
PH1-GWA-2	12/13/2023	39	TRUE

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-GWB-1	6/14/2021	ND<2	FALSE
PH1-GWB-1	12/13/2021	ND<2	FALSE
PH1-GWB-1	6/7/2022	ND<2	FALSE
PH1-GWB-1	12/12/2022	ND<2	FALSE
PH1-GWB-1	6/20/2023	ND<2	FALSE
PH1-GWB-1	12/12/2023	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
GWC-1	6/15/2021	ND<2	FALSE
GWC-1	12/15/2021	ND<2	FALSE
GWC-1	6/7/2022	ND<2	FALSE
GWC-1	12/12/2022	ND<2	FALSE
GWC-1	6/19/2023	ND<2	FALSE
GWC-1	12/11/2023	ND<2	FALSE

PH1-GWA-1	6/19/2018	3.1	TRUE
PH1-GWA-1	12/18/2018	2.4	TRUE

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

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-1	6/15/2021	5.8	TRUE
PH1-GWA-1	12/13/2021	4.1	TRUE
PH1-GWA-1	6/8/2022	2.3	TRUE
PH1-GWA-1	12/14/2022	2.5	TRUE
PH1-GWA-1	6/20/2023	3.7	TRUE
PH1-GWA-1	12/13/2023	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-GWA-1A	6/15/2021	ND<2	FALSE
PH1-GWA-1A	12/13/2021	ND<2	FALSE
PH1-GWA-1A	6/8/2022	ND<2	FALSE
PH1-GWA-1A	12/15/2022	ND<2	FALSE
PH1-GWA-1A	6/22/2023	ND<2	FALSE
PH1-GWA-1A	12/11/2023	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-GWB-2	6/16/2021	ND<2	FALSE
PH1-GWB-2	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/9/2022	ND<2	FALSE
PH1-GWB-2	12/12/2022	ND<2	FALSE
PH1-GWB-2	6/20/2023	ND<2	FALSE
PH1-GWB-2	12/12/2023	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-1	6/16/2021	ND<2	FALSE
PH1-GWC-1	12/15/2021	ND<2	FALSE
PH1-GWC-1	6/9/2022	ND<2	FALSE
PH1-GWC-1	12/14/2022	ND<2	FALSE
PH1-GWC-1	6/19/2023	ND<2	FALSE
PH1-GWC-1	12/13/2023	ND<2	FALSE

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

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

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
PH1-GWC-2	6/17/2021	7	TRUE
PH1-GWC-2	12/14/2021	6.7	TRUE
PH1-GWC-2	6/8/2022	5.6	TRUE
PH1-GWC-2	12/14/2022	7.7	TRUE
PH1-GWC-2	6/22/2023	7	TRUE
PH1-GWC-2	12/14/2023	8.2	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-3	6/14/2021	28	TRUE
PH1-GWC-3	12/14/2021	25	TRUE
PH1-GWC-3	6/7/2022	26	TRUE
PH1-GWC-3	12/15/2022	36	TRUE
PH1-GWC-3	6/22/2023	28	TRUE
PH1-GWC-3	12/13/2023	ND<2	FALSE

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-3A	6/14/2021	19	TRUE
PH1-GWC-3A	12/14/2021	14	TRUE
PH1-GWC-3A	6/7/2022	19	TRUE
PH1-GWC-3A	12/15/2022	23	TRUE
PH1-GWC-3A	6/22/2023	13	TRUE
PH1-GWC-3A	12/13/2023	15	TRUE

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
PH1-GWC-4	6/16/2021	ND<2	FALSE
PH1-GWC-4	12/15/2021	ND<2	FALSE
PH1-GWC-4	6/6/2022	ND<2	FALSE
PH1-GWC-4	6/19/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.1569%

Background measurements (n) = 24

Maximum Background Concentration = 40

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/17/2021	ND<40	FALSE
PH1-GWA-2	12/15/2021	ND<40	FALSE
PH1-GWA-2	6/8/2022	ND<50	TRUE
PH1-GWA-2	12/15/2022	ND<40	FALSE
PH1-GWA-2	6/22/2023	ND<40	FALSE
PH1-GWA-2	12/14/2023	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-GWB-1	6/15/2021	ND<40	FALSE
PH1-GWB-1	12/14/2021	ND<40	FALSE
PH1-GWB-1	6/8/2022	ND<40	FALSE
PH1-GWB-1	12/13/2022	ND<40	FALSE
PH1-GWB-1	6/21/2023	ND<40	FALSE
PH1-GWB-1	12/13/2023	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-GWC-2	6/17/2021	ND<40	FALSE
PH1-GWC-2	12/17/2021	ND<40	FALSE
PH1-GWC-2	6/8/2022	ND<40	FALSE
PH1-GWC-2	12/14/2022	ND<40	FALSE
PH1-GWC-2	6/22/2023	ND<40	FALSE
PH1-GWC-2	12/14/2023	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
GWC-1	6/16/2021	ND<40	FALSE
GWC-1	12/16/2021	ND<40	FALSE
GWC-1	6/8/2022	ND<40	FALSE
GWC-1	12/13/2022	ND<40	FALSE
GWC-1	6/20/2023	ND<40	FALSE
GWC-1	12/12/2023	ND<40	FALSE

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
PH1-GWA-1	6/16/2021	83.5	TRUE
PH1-GWA-1	12/14/2021	111	TRUE
PH1-GWA-1	6/9/2022	74.7	TRUE
PH1-GWA-1	12/15/2022	94.7	TRUE
PH1-GWA-1	6/21/2023	67.2	TRUE
PH1-GWA-1	12/14/2023	96.6	TRUE

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-1A	6/16/2021	ND<40	FALSE
PH1-GWA-1A	12/14/2021	ND<40	FALSE
PH1-GWA-1A	6/8/2022	ND<40	FALSE
PH1-GWA-1A	12/15/2022	ND<40	FALSE
PH1-GWA-1A	6/22/2023	ND<40	FALSE
PH1-GWA-1A	12/12/2023	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-GWB-2	6/17/2021	ND<40	FALSE
PH1-GWB-2	12/14/2021	ND<40	FALSE
PH1-GWB-2	6/10/2022	ND<40	FALSE
PH1-GWB-2	12/13/2022	ND<40	FALSE
PH1-GWB-2	6/21/2023	ND<40	FALSE
PH1-GWB-2	12/13/2023	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

Forsyth County - Hightower Road Landfill - Phase I

Cobalt

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-1	6/17/2021	ND<40	FALSE
PH1-GWC-1	12/16/2021	ND<40	FALSE
PH1-GWC-1	6/10/2022	ND<40	FALSE
PH1-GWC-1	12/15/2022	ND<40	FALSE
PH1-GWC-1	6/20/2023	ND<40	FALSE
PH1-GWC-1	12/14/2023	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-3	6/15/2021	ND<40	FALSE
PH1-GWC-3	12/15/2021	ND<40	FALSE
PH1-GWC-3	6/8/2022	ND<50	TRUE
PH1-GWC-3	12/15/2022	ND<40	FALSE
PH1-GWC-3	6/22/2023	ND<40	FALSE
PH1-GWC-3	12/14/2023	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
PH1-GWC-4	6/17/2021	ND<40	FALSE
PH1-GWC-4	12/16/2021	ND<40	FALSE
PH1-GWC-4	6/7/2022	ND<40	FALSE
PH1-GWC-4	6/20/2023	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-3A	6/15/2021	ND<40	FALSE
PH1-GWC-3A	12/15/2021	ND<40	FALSE
PH1-GWC-3A	6/8/2022	ND<50	TRUE
PH1-GWC-3A	12/15/2022	ND<40	FALSE
PH1-GWC-3A	6/22/2023	ND<40	FALSE
PH1-GWC-3A	12/14/2023	ND<40	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Nickel

Non-Parametric Tolerance Interval

Parameter: Nickel

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.0392%

Background measurements (n) = 24

Maximum Background Concentration = 20

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	12/19/2018	ND<20	FALSE
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWA-2	12/10/2019	ND<20	FALSE
PH1-GWA-2	6/25/2020	ND<20	FALSE
PH1-GWA-2	12/16/2020	ND<20	FALSE
PH1-GWA-2	6/17/2021	ND<20	FALSE
PH1-GWA-2	12/15/2021	ND<20	FALSE
PH1-GWA-2	6/8/2022	ND<40	TRUE
PH1-GWA-2	12/15/2022	ND<20	FALSE
PH1-GWA-2	6/22/2023	ND<20	FALSE
PH1-GWA-2	12/14/2023	ND<20	FALSE

PH1-GWB-1	6/19/2018	ND<20	FALSE
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	6/12/2019	ND<20	FALSE
PH1-GWB-1	12/11/2019	ND<20	FALSE
PH1-GWB-1	6/25/2020	ND<20	FALSE
PH1-GWB-1	12/18/2020	ND<20	FALSE
PH1-GWB-1	6/15/2021	ND<20	FALSE
PH1-GWB-1	12/14/2021	ND<20	FALSE
PH1-GWB-1	6/8/2022	ND<20	FALSE
PH1-GWB-1	12/13/2022	ND<20	FALSE
PH1-GWB-1	6/21/2023	ND<20	FALSE
PH1-GWB-1	12/13/2023	ND<20	FALSE

PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	6/10/2019	51	TRUE
PH1-GWC-2	12/10/2019	ND<20	FALSE
PH1-GWC-2	6/22/2020	ND<20	FALSE
PH1-GWC-2	12/17/2020	ND<20	FALSE
PH1-GWC-2	6/17/2021	ND<20	FALSE
PH1-GWC-2	12/17/2021	ND<20	FALSE
PH1-GWC-2	6/8/2022	ND<20	FALSE
PH1-GWC-2	12/14/2022	ND<20	FALSE
PH1-GWC-2	6/22/2023	25.3	TRUE
PH1-GWC-2	12/14/2023	ND<20	FALSE

GWC-1	6/20/2018	ND<20	FALSE
GWC-1	12/18/2018	ND<20	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Nickel

GWC-1	6/13/2019	ND<20	FALSE
GWC-1	12/11/2019	ND<20	FALSE
GWC-1	6/23/2020	ND<20	FALSE
GWC-1	12/17/2020	ND<20	FALSE
GWC-1	6/16/2021	ND<20	FALSE
GWC-1	12/16/2021	ND<20	FALSE
GWC-1	6/8/2022	ND<20	FALSE
GWC-1	12/13/2022	ND<20	FALSE
GWC-1	6/20/2023	ND<20	FALSE
GWC-1	12/12/2023	ND<20	FALSE

PH1-GWA-1	6/20/2018	ND<20	FALSE
PH1-GWA-1	12/19/2018	ND<20	FALSE
PH1-GWA-1	6/11/2019	ND<20	FALSE
PH1-GWA-1	12/10/2019	ND<20	FALSE
PH1-GWA-1	6/23/2020	ND<20	FALSE
PH1-GWA-1	12/16/2020	ND<20	FALSE
PH1-GWA-1	6/16/2021	ND<20	FALSE
PH1-GWA-1	12/14/2021	ND<20	FALSE
PH1-GWA-1	6/9/2022	ND<20	FALSE
PH1-GWA-1	12/15/2022	ND<20	FALSE
PH1-GWA-1	6/21/2023	ND<20	FALSE
PH1-GWA-1	12/14/2023	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-1A	6/16/2021	ND<20	FALSE
PH1-GWA-1A	12/14/2021	ND<20	FALSE
PH1-GWA-1A	6/8/2022	ND<20	FALSE
PH1-GWA-1A	12/15/2022	ND<20	FALSE
PH1-GWA-1A	6/22/2023	ND<20	FALSE
PH1-GWA-1A	12/12/2023	ND<20	FALSE

PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	ND<20	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWB-2	12/13/2019	ND<20	FALSE
PH1-GWB-2	6/25/2020	ND<20	FALSE
PH1-GWB-2	12/18/2020	ND<20	FALSE
PH1-GWB-2	6/17/2021	ND<20	FALSE
PH1-GWB-2	12/14/2021	ND<20	FALSE
PH1-GWB-2	6/10/2022	ND<20	FALSE
PH1-GWB-2	12/13/2022	ND<20	FALSE
PH1-GWB-2	6/21/2023	ND<20	FALSE
PH1-GWB-2	12/13/2023	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

Forsyth County - Hightower Road Landfill - Phase I

Nickel

PH1-GWC-1	12/12/2019	ND<20	FALSE
PH1-GWC-1	6/23/2020	ND<20	FALSE
PH1-GWC-1	12/18/2020	ND<20	FALSE
PH1-GWC-1	6/17/2021	ND<20	FALSE
PH1-GWC-1	12/16/2021	ND<20	FALSE
PH1-GWC-1	6/10/2022	ND<20	FALSE
PH1-GWC-1	12/15/2022	ND<20	FALSE
PH1-GWC-1	6/20/2023	ND<20	FALSE
PH1-GWC-1	12/14/2023	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-3	6/15/2021	ND<20	FALSE
PH1-GWC-3	12/15/2021	ND<20	FALSE
PH1-GWC-3	6/8/2022	ND<40	TRUE
PH1-GWC-3	12/15/2022	ND<20	FALSE
PH1-GWC-3	6/22/2023	ND<20	FALSE
PH1-GWC-3	12/14/2023	ND<20	FALSE

PH1-GWC-4	6/20/2018	ND<20	FALSE
PH1-GWC-4	12/20/2018	31	TRUE
PH1-GWC-4	6/13/2019	ND<20	FALSE
PH1-GWC-4	6/23/2020	ND<20	FALSE
PH1-GWC-4	12/18/2020	ND<20	FALSE
PH1-GWC-4	6/17/2021	ND<20	FALSE
PH1-GWC-4	12/16/2021	ND<20	FALSE
PH1-GWC-4	6/7/2022	ND<20	FALSE
PH1-GWC-4	6/20/2023	ND<20	FALSE

PH1-GWC-3A	6/28/2018	ND<20	FALSE
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/10/2019	ND<20	FALSE
PH1-GWC-3A	6/23/2020	ND<20	FALSE
PH1-GWC-3A	12/16/2020	ND<20	FALSE
PH1-GWC-3A	6/15/2021	ND<20	FALSE
PH1-GWC-3A	12/15/2021	ND<20	FALSE
PH1-GWC-3A	6/8/2022	ND<40	TRUE
PH1-GWC-3A	12/15/2022	ND<20	FALSE
PH1-GWC-3A	6/22/2023	ND<20	FALSE
PH1-GWC-3A	12/14/2023	ND<20	FALSE

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 76.4706%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/16/2021	ND<2	FALSE
PH1-GWA-2	12/14/2021	ND<2	FALSE
PH1-GWA-2	6/7/2022	ND<2	FALSE
PH1-GWA-2	12/14/2022	ND<2	FALSE
PH1-GWA-2	6/21/2023	ND<2	FALSE
PH1-GWA-2	12/13/2023	ND<2	FALSE
<hr/>			
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-GWB-1	6/14/2021	ND<2	FALSE
PH1-GWB-1	12/13/2021	ND<2	FALSE
PH1-GWB-1	6/7/2022	ND<2	FALSE
PH1-GWB-1	12/12/2022	ND<2	FALSE
PH1-GWB-1	6/20/2023	ND<2	FALSE
PH1-GWB-1	12/12/2023	ND<2	FALSE
<hr/>			
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
GWC-1	6/15/2021	ND<2	FALSE
GWC-1	12/15/2021	ND<2	FALSE
GWC-1	6/7/2022	ND<2	FALSE
GWC-1	12/12/2022	ND<2	FALSE
GWC-1	6/19/2023	ND<2	FALSE
GWC-1	12/11/2023	ND<2	FALSE
<hr/>			
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-1	6/15/2021	ND<2	FALSE
PH1-GWA-1	12/13/2021	ND<2	FALSE
PH1-GWA-1	6/8/2022	ND<2	FALSE
PH1-GWA-1	12/14/2022	ND<2	FALSE
PH1-GWA-1	6/20/2023	ND<2	FALSE
PH1-GWA-1	12/13/2023	ND<2	FALSE
<hr/>			
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-GWA-1A	6/15/2021	ND<2	FALSE
PH1-GWA-1A	12/13/2021	ND<2	FALSE
PH1-GWA-1A	6/8/2022	ND<2	FALSE
PH1-GWA-1A	12/15/2022	ND<2	FALSE
PH1-GWA-1A	6/22/2023	ND<2	FALSE
PH1-GWA-1A	12/11/2023	ND<2	FALSE
<hr/>			
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-GWB-2	6/16/2021	ND<2	FALSE
PH1-GWB-2	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/9/2022	ND<2	FALSE
PH1-GWB-2	12/12/2022	ND<2	FALSE
PH1-GWB-2	6/20/2023	ND<2	FALSE
PH1-GWB-2	12/12/2023	ND<2	FALSE
<hr/>			
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-1	6/16/2021	ND<2	FALSE
PH1-GWC-1	12/15/2021	ND<2	FALSE
PH1-GWC-1	6/9/2022	ND<2	FALSE
PH1-GWC-1	12/14/2022	ND<2	FALSE
PH1-GWC-1	6/19/2023	ND<2	FALSE
PH1-GWC-1	12/13/2023	ND<2	FALSE
<hr/>			
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
PH1-GWC-2	6/17/2021	3.7	TRUE
PH1-GWC-2	12/14/2021	2.9	TRUE
PH1-GWC-2	6/8/2022	3.4	TRUE
PH1-GWC-2	12/14/2022	4.4	TRUE
PH1-GWC-2	6/22/2023	2.9	TRUE
PH1-GWC-2	12/14/2023	3.2	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-3	6/14/2021	9.3	TRUE
PH1-GWC-3	12/14/2021	8.8	TRUE
PH1-GWC-3	6/7/2022	8.3	TRUE
PH1-GWC-3	12/15/2022	9.5	TRUE
PH1-GWC-3	6/22/2023	8.3	TRUE
PH1-GWC-3	12/13/2023	6.3	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-3A	6/14/2021	8.1	TRUE
PH1-GWC-3A	12/14/2021	7.2	TRUE
PH1-GWC-3A	6/7/2022	8.6	TRUE
PH1-GWC-3A	12/15/2022	6.5	TRUE
PH1-GWC-3A	6/22/2023	2	FALSE
PH1-GWC-3A	12/13/2023	2.5	TRUE

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
PH1-GWC-4	6/16/2021	ND<2	FALSE
PH1-GWC-4	12/15/2021	ND<2	FALSE
PH1-GWC-4	6/6/2022	ND<2	FALSE
PH1-GWC-4	6/19/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.2418%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/16/2021	2.4	TRUE
PH1-GWA-2	12/14/2021	2	FALSE
PH1-GWA-2	6/7/2022	ND<2	FALSE
PH1-GWA-2	12/14/2022	2.2	TRUE
PH1-GWA-2	6/21/2023	ND<2	FALSE
PH1-GWA-2	12/13/2023	2.8	TRUE

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-GWB-1	6/14/2021	ND<2	FALSE
PH1-GWB-1	12/13/2021	ND<2	FALSE
PH1-GWB-1	6/7/2022	ND<2	FALSE
PH1-GWB-1	12/12/2022	ND<2	FALSE
PH1-GWB-1	6/20/2023	ND<2	FALSE
PH1-GWB-1	12/12/2023	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
GWC-1	6/15/2021	ND<2	FALSE
GWC-1	12/15/2021	ND<2	FALSE
GWC-1	6/7/2022	ND<2	FALSE
GWC-1	12/12/2022	ND<2	FALSE
GWC-1	6/19/2023	ND<2	FALSE
GWC-1	12/11/2023	ND<2	FALSE

PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

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-1	6/15/2021	ND<2	FALSE
PH1-GWA-1	12/13/2021	ND<2	FALSE
PH1-GWA-1	6/8/2022	ND<2	FALSE
PH1-GWA-1	12/14/2022	ND<2	FALSE
PH1-GWA-1	6/20/2023	ND<2	FALSE
PH1-GWA-1	12/13/2023	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-GWA-1A	6/15/2021	ND<2	FALSE
PH1-GWA-1A	12/13/2021	ND<2	FALSE
PH1-GWA-1A	6/8/2022	ND<2	FALSE
PH1-GWA-1A	12/15/2022	ND<2	FALSE
PH1-GWA-1A	6/22/2023	ND<2	FALSE
PH1-GWA-1A	12/11/2023	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-GWB-2	6/16/2021	ND<2	FALSE
PH1-GWB-2	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/9/2022	ND<2	FALSE
PH1-GWB-2	12/12/2022	ND<2	FALSE
PH1-GWB-2	6/20/2023	ND<2	FALSE
PH1-GWB-2	12/12/2023	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-1	6/16/2021	ND<2	FALSE
PH1-GWC-1	12/15/2021	ND<2	FALSE
PH1-GWC-1	6/9/2022	ND<2	FALSE
PH1-GWC-1	12/14/2022	ND<2	FALSE
PH1-GWC-1	6/19/2023	ND<2	FALSE
PH1-GWC-1	12/13/2023	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

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

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
PH1-GWC-2	6/17/2021	2.7	TRUE
PH1-GWC-2	12/14/2021	3	TRUE
PH1-GWC-2	6/8/2022	2.1	TRUE
PH1-GWC-2	12/14/2022	2.7	TRUE
PH1-GWC-2	6/22/2023	ND<2	FALSE
PH1-GWC-2	12/14/2023	2.5	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-3	6/14/2021	7.5	TRUE
PH1-GWC-3	12/14/2021	7.1	TRUE
PH1-GWC-3	6/7/2022	7.2	TRUE
PH1-GWC-3	12/15/2022	9.5	TRUE
PH1-GWC-3	6/22/2023	8	TRUE
PH1-GWC-3	12/13/2023	ND<2	FALSE

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-3A	6/14/2021	6.1	TRUE
PH1-GWC-3A	12/14/2021	5.7	TRUE
PH1-GWC-3A	6/7/2022	6.8	TRUE
PH1-GWC-3A	12/15/2022	8	TRUE
PH1-GWC-3A	6/22/2023	5.5	TRUE
PH1-GWC-3A	12/13/2023	7.4	TRUE

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
PH1-GWC-4	6/16/2021	ND<2	FALSE
PH1-GWC-4	12/15/2021	ND<2	FALSE
PH1-GWC-4	6/6/2022	ND<2	FALSE
PH1-GWC-4	6/19/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70.5882%

Background measurements (n) = 24

Maximum Background Concentration = 48.9

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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-GWA-2	6/17/2021	ND<20	FALSE
PH1-GWA-2	12/15/2021	ND<20	FALSE
PH1-GWA-2	6/8/2022	ND<20	FALSE
PH1-GWA-2	12/15/2022	ND<20	FALSE
PH1-GWA-2	6/22/2023	ND<20	FALSE
PH1-GWA-2	12/14/2023	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-GWB-1	6/15/2021	ND<20	FALSE
PH1-GWB-1	12/14/2021	ND<20	FALSE
PH1-GWB-1	6/8/2022	ND<20	FALSE
PH1-GWB-1	12/13/2022	ND<20	FALSE
PH1-GWB-1	6/21/2023	ND<20	FALSE
PH1-GWB-1	12/13/2023	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-GWC-2	6/17/2021	ND<20	FALSE
PH1-GWC-2	12/17/2021	ND<20	FALSE
PH1-GWC-2	6/8/2022	45.9	FALSE
PH1-GWC-2	12/14/2022	21.6	FALSE
PH1-GWC-2	6/22/2023	37.3	FALSE
PH1-GWC-2	12/14/2023	34.7	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
GWC-1	6/16/2021	ND<20	FALSE
GWC-1	12/16/2021	ND<20	FALSE
GWC-1	6/8/2022	ND<20	FALSE
GWC-1	12/13/2022	ND<20	FALSE
GWC-1	6/20/2023	ND<20	FALSE
GWC-1	12/12/2023	ND<20	FALSE

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
PH1-GWA-1	6/16/2021	ND<20	FALSE
PH1-GWA-1	12/14/2021	31	FALSE
PH1-GWA-1	6/9/2022	ND<20	FALSE
PH1-GWA-1	12/15/2022	ND<20	FALSE
PH1-GWA-1	6/21/2023	31.6	FALSE
PH1-GWA-1	12/14/2023	21.3	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-1A	6/16/2021	ND<20	FALSE
PH1-GWA-1A	12/14/2021	ND<20	FALSE
PH1-GWA-1A	6/8/2022	38.2	FALSE
PH1-GWA-1A	12/15/2022	ND<20	FALSE
PH1-GWA-1A	6/22/2023	ND<20	FALSE
PH1-GWA-1A	12/12/2023	ND<20	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-GWB-2	6/17/2021	26.3	FALSE
PH1-GWB-2	12/14/2021	23.8	FALSE
PH1-GWB-2	6/10/2022	29.4	FALSE
PH1-GWB-2	12/13/2022	62.9	TRUE
PH1-GWB-2	6/21/2023	29	FALSE
PH1-GWB-2	12/13/2023	27.4	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

Forsyth County - Hightower Road Landfill - Phase I

Zinc

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-1	6/17/2021	ND<20	FALSE
PH1-GWC-1	12/16/2021	ND<20	FALSE
PH1-GWC-1	6/10/2022	ND<20	FALSE
PH1-GWC-1	12/15/2022	ND<20	FALSE
PH1-GWC-1	6/20/2023	ND<20	FALSE
PH1-GWC-1	12/14/2023	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-3	6/15/2021	ND<20	FALSE
PH1-GWC-3	12/15/2021	ND<20	FALSE
PH1-GWC-3	6/8/2022	ND<20	FALSE
PH1-GWC-3	12/15/2022	ND<20	FALSE
PH1-GWC-3	6/22/2023	ND<20	FALSE
PH1-GWC-3	12/14/2023	ND<20	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
PH1-GWC-4	6/17/2021	ND<20	FALSE
PH1-GWC-4	12/16/2021	21.7	FALSE
PH1-GWC-4	6/7/2022	30.7	FALSE
PH1-GWC-4	6/20/2023	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-3A	6/15/2021	23.6	FALSE
PH1-GWC-3A	12/15/2021	43.6	FALSE
PH1-GWC-3A	6/8/2022	38.8	FALSE
PH1-GWC-3A	12/15/2022	ND<20	FALSE
PH1-GWC-3A	6/22/2023	ND<20	FALSE
PH1-GWC-3A	12/14/2023	ND<20	FALSE

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-3	FALSE	96.15%
1,1-Dichloroethane	GWC-23	FALSE	96.15%
1,1-Dichloroethane	GWC-23A	FALSE	96.15%
1,1-Dichloroethane	GWA-1A	FALSE	96.15%
1,1-Dichloroethane	GWC-10	FALSE	96.15%
1,1-Dichloroethane	GWC-10A	FALSE	96.15%
1,1-Dichloroethane	GWC-11	FALSE	96.15%
1,1-Dichloroethane	GWC-12	FALSE	96.15%
1,1-Dichloroethane	GWC-12A	FALSE	96.15%
1,1-Dichloroethane	GWC-13	FALSE	96.15%
1,1-Dichloroethane	GWC-15	TRUE	96.15%
1,1-Dichloroethane	GWC-17	FALSE	96.15%
1,1-Dichloroethane	GWC-18	FALSE	96.15%
1,1-Dichloroethane	GWC-19R	FALSE	96.15%
1,1-Dichloroethane	GWC-22	FALSE	96.15%
1,1-Dichloroethane	GWC-24	FALSE	96.15%
1,1-Dichloroethane	GWC-7	FALSE	96.15%
1,1-Dichloroethane	GWC-14	FALSE	96.15%
1,1-Dichloroethane	GWC-14A	TRUE	96.15%
1,1-Dichloroethane	GWC-14R	TRUE	96.15%
1,1-Dichloroethane	GWC-2	FALSE	96.15%
1,1-Dichloroethane	GWC-3A	FALSE	96.15%
1,1-Dichloroethane	GWC-4	FALSE	96.15%
1,1-Dichloroethane	GWC-4A	FALSE	96.15%
1,1-Dichloroethane	GWC-8	FALSE	96.15%
1,1-Dichloroethane	GWC-8A	TRUE	96.15%
1,1-Dichloroethane	GWC-8R	TRUE	96.15%
1,1-Dichloroethane	GWC-9	FALSE	96.15%
1,1-Dichloroethane	GWC-16A	FALSE	96.15%
1,1-Dichloroethane	GWC-3	FALSE	96.15%
1,1-Dichloroethane	GWC-5	FALSE	96.15%
1,1-Dichloroethane	GWC-6	FALSE	96.15%
1,1-Dichloroethene	GWA-3	FALSE	96.15%
1,1-Dichloroethene	GWC-23	FALSE	96.15%
1,1-Dichloroethene	GWC-23A	FALSE	96.15%
1,1-Dichloroethene	GWA-1A	FALSE	96.15%
1,1-Dichloroethene	GWC-10	FALSE	96.15%
1,1-Dichloroethene	GWC-10A	FALSE	96.15%
1,1-Dichloroethene	GWC-11	FALSE	96.15%

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 2023 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethene	GWC-12	FALSE	96.15%
1,1-Dichloroethene	GWC-12A	FALSE	96.15%
1,1-Dichloroethene	GWC-13	FALSE	96.15%
1,1-Dichloroethene	GWC-15	<i>PASSED KW</i>	96.15%
1,1-Dichloroethene	GWC-17	FALSE	96.15%
1,1-Dichloroethene	GWC-18	FALSE	96.15%
1,1-Dichloroethene	GWC-19R	FALSE	96.15%
1,1-Dichloroethene	GWC-22	FALSE	96.15%
1,1-Dichloroethene	GWC-24	FALSE	96.15%
1,1-Dichloroethene	GWC-7	FALSE	96.15%
1,1-Dichloroethene	GWC-14	FALSE	96.15%
1,1-Dichloroethene	GWC-14A	FALSE	96.15%
1,1-Dichloroethene	GWC-14R	FALSE	96.15%
1,1-Dichloroethene	GWC-2	FALSE	96.15%
1,1-Dichloroethene	GWC-3A	FALSE	96.15%
1,1-Dichloroethene	GWC-4	FALSE	96.15%
1,1-Dichloroethene	GWC-4A	FALSE	96.15%
1,1-Dichloroethene	GWC-8	FALSE	96.15%
1,1-Dichloroethene	GWC-8A	FALSE	96.15%
1,1-Dichloroethene	GWC-8R	FALSE	96.15%
1,1-Dichloroethene	GWC-9	FALSE	96.15%
1,1-Dichloroethene	GWC-16A	FALSE	96.15%
1,1-Dichloroethene	GWC-3	FALSE	96.15%
1,1-Dichloroethene	GWC-5	FALSE	96.15%
1,1-Dichloroethene	GWC-6	FALSE	96.15%
Barium	GWA-3	FALSE	96.15%
Barium	GWC-23	FALSE	96.15%
Barium	GWC-23A	FALSE	96.15%
Barium	GWA-1A	<i>PASSED KW</i>	96.15%
Barium	GWC-10	FALSE	96.15%
Barium	GWC-10A	FALSE	96.15%
Barium	GWC-11	FALSE	96.15%
Barium	GWC-12	FALSE	96.15%
Barium	GWC-12A	FALSE	96.15%
Barium	GWC-13	FALSE	96.15%
Barium	GWC-15	TRUE	96.15%
Barium	GWC-17	FALSE	96.15%
Barium	GWC-18	TRUE	96.15%
Barium	GWC-19R	TRUE	96.15%

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 2023 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-22	FALSE	96.15%
Barium	GWC-24	FALSE	96.15%
Barium	GWC-7	FALSE	96.15%
Barium	GWC-16A	FALSE	96.15%
Barium	GWC-14	FALSE	96.15%
Barium	GWC-14A	TRUE	96.15%
Barium	GWC-2	FALSE	96.15%
Barium	GWC-3	FALSE	96.15%
Barium	GWC-3A	PASSED KW	96.15%
Barium	GWC-4	FALSE	96.15%
Barium	GWC-4A	PASSED KW	96.15%
Barium	GWC-5	FALSE	96.15%
Barium	GWC-6	FALSE	96.15%
Barium	GWC-8	PASSED KW	96.15%
Barium	GWC-8A	TRUE	96.15%
Barium	GWC-9	TRUE	96.15%
Barium	GWC-14R	FALSE	96.15%
Barium	GWC-8R	FALSE	96.15%
Benzene	GWA-3	FALSE	96.15%
Benzene	GWC-23	FALSE	96.15%
Benzene	GWC-23A	FALSE	96.15%
Benzene	GWA-1A	FALSE	96.15%
Benzene	GWC-10	FALSE	96.15%
Benzene	GWC-10A	FALSE	96.15%
Benzene	GWC-11	FALSE	96.15%
Benzene	GWC-12	FALSE	96.15%
Benzene	GWC-12A	FALSE	96.15%
Benzene	GWC-13	FALSE	96.15%
Benzene	GWC-15	TRUE	96.15%
Benzene	GWC-17	FALSE	96.15%
Benzene	GWC-18	FALSE	96.15%
Benzene	GWC-19R	FALSE	96.15%
Benzene	GWC-22	FALSE	96.15%
Benzene	GWC-24	FALSE	96.15%
Benzene	GWC-7	FALSE	96.15%
Benzene	GWC-14	FALSE	96.15%
Benzene	GWC-14A	TRUE	96.15%
Benzene	GWC-14R	FALSE	96.15%
Benzene	GWC-2	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-3A	FALSE	96.15%
Benzene	GWC-4	FALSE	96.15%
Benzene	GWC-4A	FALSE	96.15%
Benzene	GWC-8	FALSE	96.15%
Benzene	GWC-8A	TRUE	96.15%
Benzene	GWC-8R	FALSE	96.15%
Benzene	GWC-9	FALSE	96.15%
Benzene	GWC-16A	FALSE	96.15%
Benzene	GWC-3	FALSE	96.15%
Benzene	GWC-5	FALSE	96.15%
Benzene	GWC-6	FALSE	96.15%
Chlorobenzene	GWA-3	FALSE	96.15%
Chlorobenzene	GWC-23	FALSE	96.15%
Chlorobenzene	GWC-23A	FALSE	96.15%
Chlorobenzene	GWA-1A	FALSE	96.15%
Chlorobenzene	GWC-10	FALSE	96.15%
Chlorobenzene	GWC-10A	FALSE	96.15%
Chlorobenzene	GWC-11	FALSE	96.15%
Chlorobenzene	GWC-12	FALSE	96.15%
Chlorobenzene	GWC-12A	FALSE	96.15%
Chlorobenzene	GWC-13	FALSE	96.15%
Chlorobenzene	GWC-15	FALSE	96.15%
Chlorobenzene	GWC-17	FALSE	96.15%
Chlorobenzene	GWC-18	FALSE	96.15%
Chlorobenzene	GWC-19R	FALSE	96.15%
Chlorobenzene	GWC-22	FALSE	96.15%
Chlorobenzene	GWC-24	FALSE	96.15%
Chlorobenzene	GWC-7	FALSE	96.15%
Chlorobenzene	GWC-14	FALSE	96.15%
Chlorobenzene	GWC-14A	TRUE	96.15%
Chlorobenzene	GWC-14R	FALSE	96.15%
Chlorobenzene	GWC-2	FALSE	96.15%
Chlorobenzene	GWC-3A	FALSE	96.15%
Chlorobenzene	GWC-4	FALSE	96.15%
Chlorobenzene	GWC-4A	FALSE	96.15%
Chlorobenzene	GWC-8	FALSE	96.15%
Chlorobenzene	GWC-8A	FALSE	96.15%
Chlorobenzene	GWC-8R	FALSE	96.15%
Chlorobenzene	GWC-9	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-16A	FALSE	96.15%
Chlorobenzene	GWC-3	FALSE	96.15%
Chlorobenzene	GWC-5	FALSE	96.15%
Chlorobenzene	GWC-6	FALSE	96.15%
Chloroethane	GWA-3	FALSE	96.15%
Chloroethane	GWC-23	FALSE	96.15%
Chloroethane	GWC-23A	FALSE	96.15%
Chloroethane	GWA-1A	FALSE	96.15%
Chloroethane	GWC-10	FALSE	96.15%
Chloroethane	GWC-10A	FALSE	96.15%
Chloroethane	GWC-11	FALSE	96.15%
Chloroethane	GWC-12	FALSE	96.15%
Chloroethane	GWC-12A	FALSE	96.15%
Chloroethane	GWC-13	FALSE	96.15%
Chloroethane	GWC-15	FALSE	96.15%
Chloroethane	GWC-17	FALSE	96.15%
Chloroethane	GWC-18	FALSE	96.15%
Chloroethane	GWC-19R	FALSE	96.15%
Chloroethane	GWC-22	FALSE	96.15%
Chloroethane	GWC-24	FALSE	96.15%
Chloroethane	GWC-7	FALSE	96.15%
Chloroethane	GWC-14	FALSE	96.15%
Chloroethane	GWC-14A	TRUE	96.15%
Chloroethane	GWC-14R	FALSE	96.15%
Chloroethane	GWC-2	FALSE	96.15%
Chloroethane	GWC-3A	FALSE	96.15%
Chloroethane	GWC-4	FALSE	96.15%
Chloroethane	GWC-4A	FALSE	96.15%
Chloroethane	GWC-8	FALSE	96.15%
Chloroethane	GWC-8A	FALSE	96.15%
Chloroethane	GWC-8R	FALSE	96.15%
Chloroethane	GWC-9	FALSE	96.15%
Chloroethane	GWC-16A	FALSE	96.15%
Chloroethane	GWC-3	FALSE	96.15%
Chloroethane	GWC-5	FALSE	96.15%
Chloroethane	GWC-6	FALSE	96.15%
Chromium	GWA-3	FALSE	96.15%
Chromium	GWC-23	FALSE	96.15%
Chromium	GWC-23A	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chromium	GWA-1A	FALSE	96.15%
Chromium	GWC-10	FALSE	96.15%
Chromium	GWC-10A	FALSE	96.15%
Chromium	GWC-11	FALSE	96.15%
Chromium	GWC-12	FALSE	96.15%
Chromium	GWC-12A	FALSE	96.15%
Chromium	GWC-13	FALSE	96.15%
Chromium	GWC-15	FALSE	96.15%
Chromium	GWC-17	FALSE	96.15%
Chromium	GWC-18	FALSE	96.15%
Chromium	GWC-19R	FALSE	96.15%
Chromium	GWC-22	FALSE	96.15%
Chromium	GWC-24	FALSE	96.15%
Chromium	GWC-7	FALSE	96.15%
Chromium	GWC-16A	FALSE	96.15%
Chromium	GWC-14	FALSE	96.15%
Chromium	GWC-14A	FALSE	96.15%
Chromium	GWC-2	FALSE	96.15%
Chromium	GWC-3	FALSE	96.15%
Chromium	GWC-3A	FALSE	96.15%
Chromium	GWC-4	FALSE	96.15%
Chromium	GWC-4A	FALSE	96.15%
Chromium	GWC-5	FALSE	96.15%
Chromium	GWC-6	FALSE	96.15%
Chromium	GWC-8	FALSE	96.15%
Chromium	GWC-8A	FALSE	96.15%
Chromium	GWC-9	FALSE	96.15%
Chromium	GWC-14R	FALSE	96.15%
Chromium	GWC-8R	FALSE	96.15%
cis-1,2-Dichloroethene	GWA-3	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-23	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-23A	FALSE	96.15%
cis-1,2-Dichloroethene	GWA-1A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-10	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-10A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-11	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-12	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-12A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-13	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-15	TRUE	96.15%
cis-1,2-Dichloroethene	GWC-17	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-18	TRUE	96.15%
cis-1,2-Dichloroethene	GWC-19R	TRUE	96.15%
cis-1,2-Dichloroethene	GWC-22	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-24	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-7	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-14	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-14A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-14R	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-2	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-3A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-4	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-4A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-8	PASSED KW	96.15%
cis-1,2-Dichloroethene	GWC-8A	TRUE	96.15%
cis-1,2-Dichloroethene	GWC-8R	TRUE	96.15%
cis-1,2-Dichloroethene	GWC-9	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-16A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-3	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-5	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-6	FALSE	96.15%
Cobalt	GWA-3	FALSE	96.15%
Cobalt	GWC-23	FALSE	96.15%
Cobalt	GWC-23A	FALSE	96.15%
Cobalt	GWA-1A	FALSE	96.15%
Cobalt	GWC-10	FALSE	96.15%
Cobalt	GWC-10A	FALSE	96.15%
Cobalt	GWC-11	FALSE	96.15%
Cobalt	GWC-12	FALSE	96.15%
Cobalt	GWC-12A	FALSE	96.15%
Cobalt	GWC-13	FALSE	96.15%
Cobalt	GWC-15	FALSE	96.15%
Cobalt	GWC-17	FALSE	96.15%
Cobalt	GWC-18	FALSE	96.15%
Cobalt	GWC-19R	FALSE	96.15%
Cobalt	GWC-22	FALSE	96.15%
Cobalt	GWC-24	FALSE	96.15%
Cobalt	GWC-7	FALSE	96.15%

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 2023 Groundwater Monitoring Event
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	GWC-16A	FALSE	96.15%
Cobalt	GWC-14	TRUE	96.15%
Cobalt	GWC-14A	TRUE	96.15%
Cobalt	GWC-2	FALSE	96.15%
Cobalt	GWC-3	FALSE	96.15%
Cobalt	GWC-3A	FALSE	96.15%
Cobalt	GWC-4	FALSE	96.15%
Cobalt	GWC-4A	FALSE	96.15%
Cobalt	GWC-5	FALSE	96.15%
Cobalt	GWC-6	FALSE	96.15%
Cobalt	GWC-8	FALSE	96.15%
Cobalt	GWC-8A	FALSE	96.15%
Cobalt	GWC-9	FALSE	96.15%
Cobalt	GWC-14R	FALSE	96.15%
Cobalt	GWC-8R	FALSE	96.15%
Nickel	GWA-3	FALSE	96.15%
Nickel	GWC-23	FALSE	96.15%
Nickel	GWC-23A	FALSE	96.15%
Nickel	GWA-1A	FALSE	96.15%
Nickel	GWC-10	FALSE	96.15%
Nickel	GWC-10A	FALSE	96.15%
Nickel	GWC-11	FALSE	96.15%
Nickel	GWC-12	FALSE	96.15%
Nickel	GWC-12A	FALSE	96.15%
Nickel	GWC-13	FALSE	96.15%
Nickel	GWC-15	FALSE	96.15%
Nickel	GWC-17	FALSE	96.15%
Nickel	GWC-18	PASSED KW	96.15%
Nickel	GWC-19R	FALSE	96.15%
Nickel	GWC-22	FALSE	96.15%
Nickel	GWC-24	FALSE	96.15%
Nickel	GWC-7	FALSE	96.15%
Nickel	GWC-16A	FALSE	96.15%
Nickel	GWC-14	FALSE	96.15%
Nickel	GWC-14A	FALSE	96.15%
Nickel	GWC-2	FALSE	96.15%
Nickel	GWC-3	FALSE	96.15%
Nickel	GWC-3A	FALSE	96.15%
Nickel	GWC-4	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Nickel	GWC-4A	FALSE	96.15%
Nickel	GWC-5	FALSE	96.15%
Nickel	GWC-6	FALSE	96.15%
Nickel	GWC-8	FALSE	96.15%
Nickel	GWC-8A	FALSE	96.15%
Nickel	GWC-9	FALSE	96.15%
Nickel	GWC-14R	FALSE	96.15%
Nickel	GWC-8R	FALSE	96.15%
Tetrachloroethene	GWA-3	FALSE	96.15%
Tetrachloroethene	GWC-23	FALSE	96.15%
Tetrachloroethene	GWC-23A	FALSE	96.15%
Tetrachloroethene	GWA-1A	FALSE	96.15%
Tetrachloroethene	GWC-10	FALSE	96.15%
Tetrachloroethene	GWC-10A	FALSE	96.15%
Tetrachloroethene	GWC-11	FALSE	96.15%
Tetrachloroethene	GWC-12	FALSE	96.15%
Tetrachloroethene	GWC-12A	FALSE	96.15%
Tetrachloroethene	GWC-13	FALSE	96.15%
Tetrachloroethene	GWC-15	TRUE	96.15%
Tetrachloroethene	GWC-17	FALSE	96.15%
Tetrachloroethene	GWC-18	TRUE	96.15%
Tetrachloroethene	GWC-19R	FALSE	96.15%
Tetrachloroethene	GWC-22	FALSE	96.15%
Tetrachloroethene	GWC-24	FALSE	96.15%
Tetrachloroethene	GWC-7	FALSE	96.15%
Tetrachloroethene	GWC-14	FALSE	96.15%
Tetrachloroethene	GWC-14A	FALSE	96.15%
Tetrachloroethene	GWC-14R	FALSE	96.15%
Tetrachloroethene	GWC-2	FALSE	96.15%
Tetrachloroethene	GWC-3A	FALSE	96.15%
Tetrachloroethene	GWC-4	FALSE	96.15%
Tetrachloroethene	GWC-4A	FALSE	96.15%
Tetrachloroethene	GWC-8	FALSE	96.15%
Tetrachloroethene	GWC-8A	FALSE	96.15%
Tetrachloroethene	GWC-8R	FALSE	96.15%
Tetrachloroethene	GWC-9	FALSE	96.15%
Tetrachloroethene	GWC-16A	FALSE	96.15%
Tetrachloroethene	GWC-3	FALSE	96.15%
Tetrachloroethene	GWC-5	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-6	FALSE	96.15%
Trichloroethene	GWA-3	FALSE	96.15%
Trichloroethene	GWC-23	FALSE	96.15%
Trichloroethene	GWC-23A	FALSE	96.15%
Trichloroethene	GWA-1A	FALSE	96.15%
Trichloroethene	GWC-10	FALSE	96.15%
Trichloroethene	GWC-10A	FALSE	96.15%
Trichloroethene	GWC-11	FALSE	96.15%
Trichloroethene	GWC-12	FALSE	96.15%
Trichloroethene	GWC-12A	FALSE	96.15%
Trichloroethene	GWC-13	FALSE	96.15%
Trichloroethene	GWC-15	TRUE	96.15%
Trichloroethene	GWC-17	FALSE	96.15%
Trichloroethene	GWC-18	FALSE	96.15%
Trichloroethene	GWC-19R	FALSE	96.15%
Trichloroethene	GWC-22	FALSE	96.15%
Trichloroethene	GWC-24	FALSE	96.15%
Trichloroethene	GWC-7	FALSE	96.15%
Trichloroethene	GWC-14	FALSE	96.15%
Trichloroethene	GWC-14A	PASSED KW	96.15%
Trichloroethene	GWC-14R	TRUE	96.15%
Trichloroethene	GWC-2	FALSE	96.15%
Trichloroethene	GWC-3A	FALSE	96.15%
Trichloroethene	GWC-4	FALSE	96.15%
Trichloroethene	GWC-4A	FALSE	96.15%
Trichloroethene	GWC-8	FALSE	96.15%
Trichloroethene	GWC-8A	FALSE	96.15%
Trichloroethene	GWC-8R	FALSE	96.15%
Trichloroethene	GWC-9	FALSE	96.15%
Trichloroethene	GWC-16A	FALSE	96.15%
Trichloroethene	GWC-3	FALSE	96.15%
Trichloroethene	GWC-5	FALSE	96.15%
Trichloroethene	GWC-6	FALSE	96.15%
Vinyl chloride	GWA-3	FALSE	96.15%
Vinyl chloride	GWC-23	FALSE	96.15%
Vinyl chloride	GWC-23A	FALSE	96.15%
Vinyl chloride	GWA-1A	FALSE	96.15%
Vinyl chloride	GWC-10	FALSE	96.15%
Vinyl chloride	GWC-10A	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-11	FALSE	96.15%
Vinyl chloride	GWC-12	FALSE	96.15%
Vinyl chloride	GWC-12A	FALSE	96.15%
Vinyl chloride	GWC-13	FALSE	96.15%
Vinyl chloride	GWC-15	FALSE	96.15%
Vinyl chloride	GWC-17	FALSE	96.15%
Vinyl chloride	GWC-18	FALSE	96.15%
Vinyl chloride	GWC-19R	FALSE	96.15%
Vinyl chloride	GWC-22	FALSE	96.15%
Vinyl chloride	GWC-24	FALSE	96.15%
Vinyl chloride	GWC-7	FALSE	96.15%
Vinyl chloride	GWC-14	FALSE	96.15%
Vinyl chloride	GWC-14A	TRUE	96.15%
Vinyl chloride	GWC-14R	FALSE	96.15%
Vinyl chloride	GWC-2	FALSE	96.15%
Vinyl chloride	GWC-3A	FALSE	96.15%
Vinyl chloride	GWC-4	FALSE	96.15%
Vinyl chloride	GWC-4A	FALSE	96.15%
Vinyl chloride	GWC-8	FALSE	96.15%
Vinyl chloride	GWC-8A	FALSE	96.15%
Vinyl chloride	GWC-8R	FALSE	96.15%
Vinyl chloride	GWC-9	FALSE	96.15%
Vinyl chloride	GWC-16A	FALSE	96.15%
Vinyl chloride	GWC-3	FALSE	96.15%
Vinyl chloride	GWC-5	FALSE	96.15%
Vinyl chloride	GWC-6	FALSE	96.15%
Zinc	GWA-3	FALSE	96.15%
Zinc	GWC-23	FALSE	96.15%
Zinc	GWC-23A	FALSE	96.15%
Zinc	GWA-1A	FALSE	96.15%
Zinc	GWC-10	FALSE	96.15%
Zinc	GWC-10A	FALSE	96.15%
Zinc	GWC-11	FALSE	96.15%
Zinc	GWC-12	FALSE	96.15%
Zinc	GWC-12A	FALSE	96.15%
Zinc	GWC-13	FALSE	96.15%
Zinc	GWC-15	FALSE	96.15%
Zinc	GWC-17	FALSE	96.15%
Zinc	GWC-18	FALSE	96.15%

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 2023 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-19R	FALSE	96.15%
Zinc	GWC-22	FALSE	96.15%
Zinc	GWC-24	FALSE	96.15%
Zinc	GWC-7	FALSE	96.15%
Zinc	GWC-16A	FALSE	96.15%
Zinc	GWC-14	FALSE	96.15%
Zinc	GWC-14A	FALSE	96.15%
Zinc	GWC-2	FALSE	96.15%
Zinc	GWC-3	FALSE	96.15%
Zinc	GWC-3A	FALSE	96.15%
Zinc	GWC-4	FALSE	96.15%
Zinc	GWC-4A	FALSE	96.15%
Zinc	GWC-5	FALSE	96.15%
Zinc	GWC-6	FALSE	96.15%
Zinc	GWC-8	FALSE	96.15%
Zinc	GWC-8A	FALSE	96.15%
Zinc	GWC-9	FALSE	96.15%
Zinc	GWC-14R	FALSE	96.15%
Zinc	GWC-8R	FALSE	96.15%

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 = 85.8561%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	ND<2	FALSE

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-15	6/16/2021	42	TRUE
GWC-15	12/14/2021	39	TRUE
GWC-15	6/9/2022	39	TRUE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	45	TRUE

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

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-17	6/9/2022	ND<2	FALSE
GWC-17	12/14/2022	ND<2	FALSE
GWC-17	6/20/2023	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-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	ND<2	FALSE
GWC-18	6/7/2022	ND<2	FALSE
GWC-18	12/14/2022	ND<2	FALSE
GWC-18	6/20/2023	ND<2	FALSE
GWC-18	12/12/2023	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-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	ND<2	FALSE
GWC-19R	6/6/2022	ND<2	FALSE
GWC-19R	12/14/2022	ND<2	FALSE
GWC-19R	6/20/2023	ND<2	FALSE
GWC-19R	12/13/2023	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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

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-14A	6/15/2021	9.2	TRUE
GWC-14A	12/14/2021	13	TRUE
GWC-14A	6/9/2022	9.5	TRUE
GWC-14A	12/13/2022	18	TRUE
GWC-14A	6/20/2023	12	TRUE
GWC-14A	12/12/2023	17	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-14R	6/16/2021	16	TRUE
GWC-14R	12/14/2021	14	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

GWC-14R	6/9/2022	11	TRUE
GWC-14R	12/13/2022	12	TRUE
GWC-14R	6/21/2023	11	TRUE
GWC-14R	12/12/2023	12	TRUE

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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	ND<2	FALSE
GWC-8	6/21/2023	ND<2	FALSE
GWC-8	12/12/2023	ND<2	FALSE

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
GWC-8A	6/16/2021	2.5	TRUE
GWC-8A	12/15/2021	2.3	TRUE
GWC-8A	6/9/2022	2.1	TRUE
GWC-8A	12/13/2022	2.5	TRUE
GWC-8A	6/21/2023	ND<2	FALSE
GWC-8A	12/13/2023	2.2	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-8R	6/16/2021	16	TRUE
GWC-8R	12/15/2021	11	TRUE
GWC-8R	6/9/2022	8.8	TRUE
GWC-8R	12/13/2022	9	TRUE
GWC-8R	6/21/2023	9.8	TRUE
GWC-8R	12/12/2023	8.5	TRUE

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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	2	FALSE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: 1,1-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.7519%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	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-15	6/16/2021	ND<2	FALSE
GWC-15	12/14/2021	ND<2	FALSE
GWC-15	6/9/2022	ND<2	FALSE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	2.4	TRUE

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

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-17	6/9/2022	ND<2	FALSE
GWC-17	12/14/2022	ND<2	FALSE
GWC-17	6/20/2023	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-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	ND<2	FALSE
GWC-18	6/7/2022	ND<2	FALSE
GWC-18	12/14/2022	ND<2	FALSE
GWC-18	6/20/2023	ND<2	FALSE
GWC-18	12/12/2023	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-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	ND<2	FALSE
GWC-19R	6/6/2022	ND<2	FALSE
GWC-19R	12/14/2022	ND<2	FALSE
GWC-19R	6/20/2023	ND<2	FALSE
GWC-19R	12/13/2023	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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

GWC-14A	6/20/2018	ND<2	FALSE
GWC-14A	12/19/2018	ND<2	FALSE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	ND<2	FALSE
GWC-14A	6/24/2020	ND<2	FALSE
GWC-14A	12/15/2020	ND<2	FALSE
GWC-14A	6/15/2021	ND<2	FALSE
GWC-14A	12/14/2021	ND<2	FALSE
GWC-14A	6/9/2022	ND<2	FALSE
GWC-14A	12/13/2022	ND<2	FALSE
GWC-14A	6/20/2023	ND<2	FALSE
GWC-14A	12/12/2023	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-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

GWC-14R	6/9/2022	ND<2	FALSE
GWC-14R	12/13/2022	ND<2	FALSE
GWC-14R	6/21/2023	ND<2	FALSE
GWC-14R	12/12/2023	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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	ND<2	FALSE
GWC-8	6/21/2023	ND<2	FALSE
GWC-8	12/12/2023	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
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8A	6/9/2022	ND<2	FALSE
GWC-8A	12/13/2022	ND<2	FALSE
GWC-8A	6/21/2023	ND<2	FALSE
GWC-8A	12/13/2023	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-8R	6/16/2021	ND<2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-8R	6/9/2022	ND<2	FALSE
GWC-8R	12/13/2022	ND<2	FALSE
GWC-8R	6/21/2023	ND<2	FALSE
GWC-8R	12/12/2023	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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

1,1-Dichloroethene

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-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	ND<2	FALSE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 36.193%

Background measurements (n) = 25

Maximum Background Concentration = 39.5

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/15/2021	ND<20	FALSE
GWA-3	12/15/2021	ND<20	FALSE
GWA-3	6/7/2022	ND<20	FALSE
GWA-3	12/14/2022	ND<20	FALSE
GWA-3	6/21/2023	ND<20	FALSE
GWA-3	12/12/2023	ND<20	FALSE
<hr/>			
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-23	6/15/2021	ND<20	FALSE
GWC-23	12/14/2021	ND<20	FALSE
GWC-23	6/7/2022	ND<20	FALSE
GWC-23	12/13/2022	ND<20	FALSE
GWC-23	6/22/2023	ND<20	FALSE
GWC-23	12/12/2023	ND<20	FALSE
<hr/>			
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-23A	6/15/2021	ND<20	FALSE
GWC-23A	12/14/2021	ND<20	FALSE
GWC-23A	6/7/2022	ND<20	FALSE
GWC-23A	12/13/2022	ND<20	FALSE
GWC-23A	6/22/2023	ND<20	FALSE
GWC-23A	12/12/2023	21.1	FALSE
<hr/>			
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-1A	6/17/2021	37.4	FALSE
GWA-1A	12/16/2021	32.3	FALSE
GWA-1A	6/8/2022	31.8	FALSE
GWA-1A	12/14/2022	34.8	FALSE
GWA-1A	6/22/2023	33.8	FALSE
GWA-1A	12/13/2023	40.5	TRUE
<hr/>			
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-10	6/16/2021	ND<20	FALSE
GWC-10	12/16/2021	ND<20	FALSE
GWC-10	6/8/2022	ND<20	FALSE
GWC-10	12/15/2022	ND<20	FALSE
GWC-10	6/22/2023	ND<20	FALSE
GWC-10	12/12/2023	29.3	FALSE
<hr/>			
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-10A	6/16/2021	31.5	FALSE
GWC-10A	12/16/2021	33.5	FALSE
GWC-10A	6/8/2022	31.8	FALSE
GWC-10A	12/15/2022	38.6	FALSE
GWC-10A	6/22/2023	30.6	FALSE
GWC-10A	12/12/2023	38.1	FALSE
<hr/>			
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-11	6/16/2021	22.1	FALSE
GWC-11	12/14/2021	23.3	FALSE
GWC-11	6/8/2022	ND<20	FALSE
GWC-11	12/13/2022	23.2	FALSE
GWC-11	6/21/2023	ND<20	FALSE
GWC-11	12/12/2023	27.8	FALSE
<hr/>			
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	34	FALSE
GWC-12	6/12/2019	20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

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-12	6/16/2021	ND<20	FALSE
GWC-12	12/14/2021	ND<20	FALSE
GWC-12	6/8/2022	ND<20	FALSE
GWC-12	12/13/2022	ND<20	FALSE
GWC-12	6/21/2023	ND<20	FALSE
GWC-12	12/13/2023	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-12A	6/16/2021	ND<20	FALSE
GWC-12A	12/14/2021	ND<20	FALSE
GWC-12A	6/8/2022	ND<20	FALSE
GWC-12A	12/13/2022	ND<20	FALSE
GWC-12A	6/21/2023	ND<20	FALSE
GWC-12A	12/13/2023	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-13	6/16/2021	ND<20	FALSE
GWC-13	12/16/2021	ND<20	FALSE
GWC-13	6/9/2022	ND<20	FALSE
GWC-13	12/13/2022	ND<20	FALSE
GWC-13	6/21/2023	ND<20	FALSE
GWC-13	12/13/2023	21.8	FALSE

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-15	6/16/2021	69.4	TRUE
GWC-15	12/14/2021	73.4	TRUE
GWC-15	6/9/2022	70.8	TRUE
GWC-15	12/15/2022	34.4	FALSE
GWC-15	6/22/2023	24.4	FALSE
GWC-15	12/13/2023	71.7	TRUE

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

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

GWC-17	6/24/2020	30.9	FALSE
GWC-17	12/16/2020	40.7	TRUE
GWC-17	6/15/2021	38.3	FALSE
GWC-17	12/15/2021	39.2	FALSE
GWC-17	6/10/2022	41.1	TRUE
GWC-17	12/15/2022	36.5	FALSE
GWC-17	6/21/2023	27.6	FALSE

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-18	6/15/2021	165	TRUE
GWC-18	12/15/2021	141	TRUE
GWC-18	6/8/2022	196	TRUE
GWC-18	12/15/2022	178	TRUE
GWC-18	6/21/2023	219	TRUE
GWC-18	12/13/2023	192	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-19R	6/15/2021	82.2	TRUE
GWC-19R	12/15/2021	87	TRUE
GWC-19R	6/7/2022	85.6	TRUE
GWC-19R	12/15/2022	180	TRUE
GWC-19R	6/21/2023	97.4	TRUE
GWC-19R	12/14/2023	101	TRUE

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-22	6/15/2021	28	FALSE
GWC-22	12/14/2021	24.6	FALSE
GWC-22	6/7/2022	25.8	FALSE
GWC-22	12/13/2022	24.1	FALSE
GWC-22	6/21/2023	24.4	FALSE
GWC-22	12/12/2023	23.7	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-24	6/15/2021	ND<20	FALSE
GWC-24	6/8/2022	ND<20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

GWC-24	12/15/2022	ND<20	FALSE
GWC-24	6/21/2023	ND<20	FALSE
GWC-24	12/13/2023	ND<20	FALSE

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
GWC-7	6/16/2021	36.9	FALSE
GWC-7	12/14/2021	41.8	TRUE
GWC-7	6/9/2022	36.4	FALSE
GWC-7	12/13/2022	35.6	FALSE
GWC-7	6/21/2023	34.8	FALSE
GWC-7	12/12/2023	37.1	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-16A	6/16/2021	24.3	FALSE
GWC-16A	12/16/2021	23.6	FALSE
GWC-16A	6/10/2022	ND<20	FALSE
GWC-16A	12/15/2022	23.6	FALSE
GWC-16A	12/13/2023	26.3	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-14	6/16/2021	24	FALSE
GWC-14	12/16/2021	47.3	TRUE
GWC-14	6/10/2022	20.8	FALSE
GWC-14	6/22/2023	26.4	FALSE

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-14A	6/16/2021	173	TRUE
GWC-14A	12/15/2021	179	TRUE
GWC-14A	6/10/2022	167	TRUE
GWC-14A	12/14/2022	181	TRUE
GWC-14A	6/21/2023	161	TRUE
GWC-14A	12/13/2023	187	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

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-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	ND<20	FALSE
GWC-2	6/8/2022	ND<20	FALSE
GWC-2	12/13/2022	ND<20	FALSE
GWC-2	6/20/2023	ND<20	FALSE
GWC-2	12/12/2023	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-3	6/16/2021	ND<20	FALSE
GWC-3	12/16/2021	ND<20	FALSE
GWC-3	6/8/2022	ND<20	FALSE
GWC-3	6/20/2023	ND<20	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-3A	6/15/2021	36.5	FALSE
GWC-3A	12/16/2021	32.8	FALSE
GWC-3A	6/8/2022	32.3	FALSE
GWC-3A	12/13/2022	35.4	FALSE
GWC-3A	6/20/2023	36.3	FALSE
GWC-3A	12/13/2023	43.2	TRUE

GWC-4	6/21/2018	20	FALSE
GWC-4	6/24/2020	25.6	FALSE
GWC-4	12/18/2020	31.5	FALSE
GWC-4	6/17/2021	24.5	FALSE
GWC-4	12/15/2021	21	FALSE
GWC-4	6/9/2022	ND<20	FALSE
GWC-4	12/13/2022	20	FALSE
GWC-4	6/21/2023	ND<20	FALSE
GWC-4	12/13/2023	24.2	FALSE

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

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

GWC-4A	6/18/2021	35.7	FALSE
GWC-4A	12/16/2021	ND<20	FALSE
GWC-4A	6/8/2022	36.3	FALSE
GWC-4A	12/15/2022	33	FALSE
GWC-4A	6/22/2023	54.6	TRUE
GWC-4A	12/13/2023	45.7	TRUE

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-5	6/16/2021	ND<20	FALSE
GWC-5	12/14/2021	ND<20	FALSE
GWC-5	6/9/2022	ND<20	FALSE
GWC-5	12/13/2022	ND<20	FALSE
GWC-5	6/21/2023	ND<20	FALSE
GWC-5	12/12/2023	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-6	6/16/2021	ND<20	FALSE
GWC-6	12/14/2021	ND<20	FALSE
GWC-6	6/9/2022	ND<20	FALSE
GWC-6	12/15/2022	ND<20	FALSE
GWC-6	6/21/2023	ND<20	FALSE
GWC-6	12/13/2023	ND<20	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-8	6/17/2021	42.5	TRUE
GWC-8	12/16/2021	33.5	FALSE
GWC-8	6/10/2022	33.5	FALSE
GWC-8	12/14/2022	34	FALSE
GWC-8	6/22/2023	30	FALSE
GWC-8	12/13/2023	39.8	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-8A	6/17/2021	52.4	TRUE
GWC-8A	12/16/2021	49.7	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

Barium

GWC-8A	6/10/2022	39.9	TRUE
GWC-8A	12/14/2022	52.7	TRUE
GWC-8A	6/22/2023	36.9	FALSE
GWC-8A	12/14/2023	47.9	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-9	6/16/2021	64.3	TRUE
GWC-9	12/14/2021	100	TRUE
GWC-9	6/8/2022	55.7	TRUE
GWC-9	12/15/2022	87.8	TRUE
GWC-9	6/21/2023	69.6	TRUE
GWC-9	12/12/2023	93.6	TRUE

GWC-14R	6/9/2022	94.1	TRUE
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GWC-8R	6/9/2022	35.8	FALSE
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Non-Parametric Tolerance Interval

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.3002%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	ND<2	FALSE
<hr/>			
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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	ND<2	FALSE
<hr/>			
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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	ND<2	FALSE
<hr/>			
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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	ND<2	FALSE
<hr/>			
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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	ND<2	FALSE
<hr/>			
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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	ND<2	FALSE
<hr/>			
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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	ND<2	FALSE
<hr/>			
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	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-15	6/16/2021	3.9	TRUE
GWC-15	12/14/2021	3.7	TRUE
GWC-15	6/9/2022	4.2	TRUE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	4.9	TRUE

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

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-17	6/9/2022	ND<2	FALSE
GWC-17	12/14/2022	ND<2	FALSE
GWC-17	6/20/2023	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-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	ND<2	FALSE
GWC-18	6/7/2022	ND<2	FALSE
GWC-18	12/14/2022	ND<2	FALSE
GWC-18	6/20/2023	ND<2	FALSE
GWC-18	12/12/2023	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-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	ND<2	FALSE
GWC-19R	6/6/2022	ND<2	FALSE
GWC-19R	12/14/2022	ND<2	FALSE
GWC-19R	6/20/2023	ND<2	FALSE
GWC-19R	12/13/2023	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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

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-14A	6/15/2021	2.6	TRUE
GWC-14A	12/14/2021	3	TRUE
GWC-14A	6/9/2022	2.5	TRUE
GWC-14A	12/13/2022	3.3	TRUE
GWC-14A	6/20/2023	2.8	TRUE
GWC-14A	12/12/2023	3.4	TRUE

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-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

GWC-14R	6/9/2022	ND<2	FALSE
GWC-14R	12/13/2022	ND<2	FALSE
GWC-14R	6/21/2023	ND<2	FALSE
GWC-14R	12/12/2023	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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	ND<2	FALSE
GWC-8	6/21/2023	ND<2	FALSE
GWC-8	12/12/2023	ND<2	FALSE

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
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8A	6/9/2022	2	FALSE
GWC-8A	12/13/2022	2.4	TRUE
GWC-8A	6/21/2023	ND<2	FALSE
GWC-8A	12/13/2023	2.2	TRUE

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-8R	6/16/2021	2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-8R	6/9/2022	ND<2	FALSE
GWC-8R	12/13/2022	ND<2	FALSE
GWC-8R	6/21/2023	ND<2	FALSE
GWC-8R	12/12/2023	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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Benzene

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-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	ND<2	FALSE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Chlorobenzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.0149%

Background measurements (n) = 25

Maximum Background Concentration = 10

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<10	FALSE
GWA-3	12/14/2021	ND<10	FALSE
GWA-3	6/6/2022	ND<10	FALSE
GWA-3	12/13/2022	ND<10	FALSE
GWA-3	6/20/2023	ND<10	FALSE
GWA-3	12/11/2023	ND<10	FALSE

GWC-23	6/18/2018	ND<10	FALSE
GWC-23	12/18/2018	ND<10	FALSE
GWC-23	6/12/2019	ND<10	FALSE
GWC-23	12/11/2019	ND<10	FALSE
GWC-23	6/24/2020	ND<10	FALSE
GWC-23	12/16/2020	ND<10	FALSE
GWC-23	6/14/2021	ND<10	FALSE
GWC-23	12/13/2021	ND<10	FALSE
GWC-23	6/6/2022	ND<10	FALSE
GWC-23	12/12/2022	ND<10	FALSE
GWC-23	6/21/2023	ND<10	FALSE
GWC-23	12/11/2023	ND<10	FALSE

GWC-23A	6/18/2018	ND<10	FALSE
GWC-23A	12/18/2018	ND<10	FALSE
GWC-23A	6/12/2019	ND<10	FALSE
GWC-23A	12/11/2019	ND<10	FALSE
GWC-23A	6/24/2020	ND<10	FALSE
GWC-23A	12/16/2020	ND<10	FALSE
GWC-23A	6/14/2021	ND<10	FALSE
GWC-23A	12/13/2021	ND<10	FALSE
GWC-23A	6/6/2022	ND<10	FALSE
GWC-23A	12/12/2022	ND<10	FALSE
GWC-23A	6/21/2023	ND<10	FALSE
GWC-23A	12/11/2023	ND<10	FALSE

GWA-1A	6/19/2018	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-1A	6/17/2021	ND<10	FALSE
GWA-1A	12/16/2021	ND<10	FALSE
GWA-1A	6/8/2022	ND<10	FALSE
GWA-1A	12/14/2022	ND<10	FALSE
GWA-1A	6/22/2023	ND<10	FALSE
GWA-1A	12/13/2023	ND<10	FALSE

GWC-10	6/19/2018	ND<10	FALSE
GWC-10	12/17/2018	ND<10	FALSE
GWC-10	6/10/2019	ND<10	FALSE
GWC-10	12/12/2019	ND<10	FALSE
GWC-10	6/24/2020	ND<10	FALSE
GWC-10	12/15/2020	ND<10	FALSE
GWC-10	6/15/2021	ND<10	FALSE
GWC-10	12/15/2021	ND<10	FALSE
GWC-10	6/7/2022	ND<10	FALSE
GWC-10	12/14/2022	ND<10	FALSE
GWC-10	6/21/2023	ND<10	FALSE
GWC-10	12/11/2023	ND<10	FALSE

GWC-10A	6/19/2018	ND<10	FALSE
GWC-10A	12/17/2018	ND<10	FALSE
GWC-10A	6/10/2019	ND<10	FALSE
GWC-10A	12/12/2019	ND<10	FALSE
GWC-10A	6/24/2020	ND<10	FALSE
GWC-10A	12/15/2020	ND<10	FALSE
GWC-10A	6/15/2021	ND<10	FALSE
GWC-10A	12/15/2021	ND<10	FALSE
GWC-10A	6/7/2022	ND<10	FALSE
GWC-10A	12/14/2022	ND<10	FALSE
GWC-10A	6/21/2023	ND<10	FALSE
GWC-10A	12/11/2023	ND<10	FALSE

GWC-11	6/19/2018	ND<10	FALSE
GWC-11	12/19/2018	ND<10	FALSE
GWC-11	6/12/2019	ND<10	FALSE
GWC-11	12/12/2019	ND<10	FALSE
GWC-11	6/24/2020	ND<10	FALSE
GWC-11	12/15/2020	ND<10	FALSE
GWC-11	6/15/2021	ND<10	FALSE
GWC-11	12/13/2021	ND<10	FALSE
GWC-11	6/7/2022	ND<10	FALSE
GWC-11	12/12/2022	ND<10	FALSE
GWC-11	6/20/2023	ND<10	FALSE
GWC-11	12/11/2023	ND<10	FALSE

GWC-12	6/19/2018	ND<10	FALSE
GWC-12	12/19/2018	ND<10	FALSE
GWC-12	6/11/2019	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

GWC-12	12/9/2019	ND<10	FALSE
GWC-12	6/24/2020	ND<10	FALSE
GWC-12	12/15/2020	ND<10	FALSE
GWC-12	6/15/2021	ND<10	FALSE
GWC-12	12/13/2021	ND<10	FALSE
GWC-12	6/7/2022	ND<10	FALSE
GWC-12	12/12/2022	ND<10	FALSE
GWC-12	6/20/2023	ND<10	FALSE
GWC-12	12/12/2023	ND<10	FALSE

GWC-12A	6/19/2018	ND<10	FALSE
GWC-12A	12/19/2018	ND<10	FALSE
GWC-12A	6/11/2019	ND<10	FALSE
GWC-12A	12/9/2019	ND<10	FALSE
GWC-12A	6/24/2020	ND<10	FALSE
GWC-12A	12/15/2020	ND<10	FALSE
GWC-12A	6/15/2021	ND<10	FALSE
GWC-12A	12/13/2021	ND<10	FALSE
GWC-12A	6/7/2022	ND<10	FALSE
GWC-12A	12/12/2022	ND<10	FALSE
GWC-12A	6/20/2023	ND<10	FALSE
GWC-12A	12/12/2023	ND<10	FALSE

GWC-13	6/19/2018	ND<10	FALSE
GWC-13	12/19/2018	ND<10	FALSE
GWC-13	6/12/2019	ND<10	FALSE
GWC-13	12/11/2019	ND<10	FALSE
GWC-13	6/23/2020	ND<10	FALSE
GWC-13	12/15/2020	ND<10	FALSE
GWC-13	6/15/2021	ND<10	FALSE
GWC-13	12/15/2021	ND<10	FALSE
GWC-13	6/8/2022	ND<10	FALSE
GWC-13	12/12/2022	ND<10	FALSE
GWC-13	6/20/2023	ND<10	FALSE
GWC-13	12/12/2023	ND<10	FALSE

GWC-15	6/19/2018	ND<10	FALSE
GWC-15	12/19/2018	ND<10	FALSE
GWC-15	6/11/2019	ND<10	FALSE
GWC-15	12/10/2019	ND<10	FALSE
GWC-15	6/25/2020	ND<10	FALSE
GWC-15	12/17/2020	ND<10	FALSE
GWC-15	6/16/2021	ND<10	FALSE
GWC-15	12/14/2021	ND<10	FALSE
GWC-15	6/9/2022	ND<10	FALSE
GWC-15	12/15/2022	ND<10	FALSE
GWC-15	6/22/2023	ND<10	FALSE
GWC-15	12/13/2023	ND<10	FALSE

GWC-17	6/19/2018	ND<10	FALSE
GWC-17	12/19/2018	ND<10	FALSE
GWC-17	6/12/2019	ND<10	FALSE
GWC-17	12/10/2019	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

GWC-17	6/23/2020	ND<10	FALSE
GWC-17	12/15/2020	ND<10	FALSE
GWC-17	6/14/2021	ND<10	FALSE
GWC-17	12/14/2021	ND<10	FALSE
GWC-17	6/9/2022	ND<10	FALSE
GWC-17	12/14/2022	ND<10	FALSE
GWC-17	6/20/2023	ND<10	FALSE

GWC-18	6/19/2018	ND<10	FALSE
GWC-18	12/18/2018	ND<10	FALSE
GWC-18	6/11/2019	ND<10	FALSE
GWC-18	12/9/2019	ND<10	FALSE
GWC-18	6/23/2020	ND<10	FALSE
GWC-18	12/15/2020	ND<10	FALSE
GWC-18	6/14/2021	ND<10	FALSE
GWC-18	12/14/2021	ND<10	FALSE
GWC-18	6/7/2022	ND<10	FALSE
GWC-18	12/14/2022	ND<10	FALSE
GWC-18	6/20/2023	ND<10	FALSE
GWC-18	12/12/2023	ND<10	FALSE

GWC-19R	6/19/2018	ND<10	FALSE
GWC-19R	12/18/2018	ND<10	FALSE
GWC-19R	6/11/2019	ND<10	FALSE
GWC-19R	12/9/2019	ND<10	FALSE
GWC-19R	6/23/2020	ND<10	FALSE
GWC-19R	12/15/2020	ND<10	FALSE
GWC-19R	6/14/2021	ND<10	FALSE
GWC-19R	12/14/2021	ND<10	FALSE
GWC-19R	6/6/2022	ND<10	FALSE
GWC-19R	12/14/2022	ND<10	FALSE
GWC-19R	6/20/2023	ND<10	FALSE
GWC-19R	12/13/2023	ND<10	FALSE

GWC-22	6/19/2018	ND<10	FALSE
GWC-22	12/18/2018	ND<10	FALSE
GWC-22	6/12/2019	ND<10	FALSE
GWC-22	12/11/2019	ND<10	FALSE
GWC-22	6/23/2020	ND<10	FALSE
GWC-22	12/17/2020	ND<10	FALSE
GWC-22	6/14/2021	ND<10	FALSE
GWC-22	12/13/2021	ND<10	FALSE
GWC-22	6/6/2022	ND<10	FALSE
GWC-22	12/12/2022	ND<10	FALSE
GWC-22	6/20/2023	ND<10	FALSE
GWC-22	12/11/2023	ND<10	FALSE

GWC-24	6/19/2018	ND<10	FALSE
GWC-24	12/19/2018	ND<10	FALSE
GWC-24	6/11/2019	ND<10	FALSE
GWC-24	12/9/2019	ND<10	FALSE
GWC-24	6/24/2020	ND<10	FALSE
GWC-24	12/15/2020	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

GWC-24	6/14/2021	ND<10	FALSE
GWC-24	12/14/2021	ND<10	FALSE
GWC-24	6/7/2022	ND<10	FALSE
GWC-24	12/14/2022	ND<10	FALSE
GWC-24	6/20/2023	ND<10	FALSE
GWC-24	12/12/2023	ND<10	FALSE

GWC-7	6/19/2018	ND<10	FALSE
GWC-7	12/18/2018	ND<10	FALSE
GWC-7	6/12/2019	ND<10	FALSE
GWC-7	12/11/2019	ND<10	FALSE
GWC-7	6/24/2020	ND<10	FALSE
GWC-7	12/17/2020	ND<10	FALSE
GWC-7	6/15/2021	ND<10	FALSE
GWC-7	12/13/2021	ND<10	FALSE
GWC-7	6/8/2022	ND<10	FALSE
GWC-7	12/12/2022	ND<10	FALSE
GWC-7	6/20/2023	ND<10	FALSE
GWC-7	12/11/2023	ND<10	FALSE

GWC-14	6/20/2018	ND<10	FALSE
GWC-14	6/11/2019	ND<10	FALSE
GWC-14	12/10/2019	ND<10	FALSE
GWC-14	6/24/2020	ND<10	FALSE
GWC-14	12/17/2020	ND<10	FALSE
GWC-14	6/15/2021	ND<10	FALSE
GWC-14	12/15/2021	ND<10	FALSE
GWC-14	6/9/2022	ND<10	FALSE
GWC-14	12/13/2022	ND<10	FALSE
GWC-14	6/21/2023	ND<10	FALSE
GWC-14	12/12/2023	ND<10	FALSE

GWC-14A	6/20/2018	ND<10	FALSE
GWC-14A	12/19/2018	ND<10	FALSE
GWC-14A	6/11/2019	ND<10	FALSE
GWC-14A	12/10/2019	ND<10	FALSE
GWC-14A	6/24/2020	12	TRUE
GWC-14A	12/15/2020	16	TRUE
GWC-14A	6/15/2021	15	TRUE
GWC-14A	12/14/2021	15	TRUE
GWC-14A	6/9/2022	17	TRUE
GWC-14A	12/13/2022	14	TRUE
GWC-14A	6/20/2023	12	TRUE
GWC-14A	12/12/2023	13	TRUE

GWC-14R	6/20/2018	ND<10	FALSE
GWC-14R	12/19/2018	ND<10	FALSE
GWC-14R	6/12/2019	ND<10	FALSE
GWC-14R	12/10/2019	ND<10	FALSE
GWC-14R	6/23/2020	ND<10	FALSE
GWC-14R	12/17/2020	ND<10	FALSE
GWC-14R	6/16/2021	ND<10	FALSE
GWC-14R	12/14/2021	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

GWC-14R	6/9/2022	ND<10	FALSE
GWC-14R	12/13/2022	ND<10	FALSE
GWC-14R	6/21/2023	ND<10	FALSE
GWC-14R	12/12/2023	ND<10	FALSE

GWC-2	6/20/2018	ND<10	FALSE
GWC-2	12/19/2018	ND<10	FALSE
GWC-2	6/12/2019	ND<10	FALSE
GWC-2	12/10/2019	ND<10	FALSE
GWC-2	6/22/2020	ND<10	FALSE
GWC-2	12/16/2020	ND<10	FALSE
GWC-2	6/15/2021	ND<10	FALSE
GWC-2	12/15/2021	ND<10	FALSE
GWC-2	6/7/2022	ND<10	FALSE
GWC-2	12/12/2022	ND<10	FALSE
GWC-2	6/19/2023	ND<10	FALSE
GWC-2	12/11/2023	ND<10	FALSE

GWC-3A	6/20/2018	ND<10	FALSE
GWC-3A	12/17/2018	ND<10	FALSE
GWC-3A	6/11/2019	ND<10	FALSE
GWC-3A	12/10/2019	ND<10	FALSE
GWC-3A	6/24/2020	ND<10	FALSE
GWC-3A	12/16/2020	ND<10	FALSE
GWC-3A	6/14/2021	ND<10	FALSE
GWC-3A	12/15/2021	ND<10	FALSE
GWC-3A	6/7/2022	ND<10	FALSE
GWC-3A	12/12/2022	ND<10	FALSE
GWC-3A	6/19/2023	ND<10	FALSE
GWC-3A	12/12/2023	ND<10	FALSE

GWC-4	6/20/2018	ND<10	FALSE
GWC-4	6/23/2020	ND<10	FALSE
GWC-4	12/17/2020	ND<10	FALSE
GWC-4	6/16/2021	ND<10	FALSE
GWC-4	12/14/2021	ND<10	FALSE
GWC-4	6/8/2022	ND<10	FALSE
GWC-4	12/12/2022	ND<10	FALSE
GWC-4	6/20/2023	ND<10	FALSE
GWC-4	12/12/2023	ND<10	FALSE

GWC-4A	6/20/2018	ND<10	FALSE
GWC-4A	12/17/2018	ND<10	FALSE
GWC-4A	6/11/2019	ND<10	FALSE
GWC-4A	12/11/2019	ND<10	FALSE
GWC-4A	6/23/2020	ND<10	FALSE
GWC-4A	12/17/2020	ND<10	FALSE
GWC-4A	6/17/2021	ND<10	FALSE
GWC-4A	12/15/2021	ND<10	FALSE
GWC-4A	6/8/2022	ND<10	FALSE
GWC-4A	12/14/2022	ND<10	FALSE
GWC-4A	6/21/2023	ND<10	FALSE
GWC-4A	12/13/2023	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

GWC-8	6/20/2018	ND<10	FALSE
GWC-8	12/19/2018	ND<10	FALSE
GWC-8	6/12/2019	ND<10	FALSE
GWC-8	12/11/2019	ND<10	FALSE
GWC-8	6/23/2020	ND<10	FALSE
GWC-8	12/16/2020	ND<10	FALSE
GWC-8	6/16/2021	ND<10	FALSE
GWC-8	12/15/2021	ND<10	FALSE
GWC-8	6/9/2022	ND<10	FALSE
GWC-8	12/13/2022	ND<10	FALSE
GWC-8	6/21/2023	ND<10	FALSE
GWC-8	12/12/2023	ND<10	FALSE

GWC-8A	6/20/2018	ND<10	FALSE
GWC-8A	12/19/2018	ND<10	FALSE
GWC-8A	6/12/2019	ND<10	FALSE
GWC-8A	12/11/2019	ND<10	FALSE
GWC-8A	6/23/2020	ND<10	FALSE
GWC-8A	12/15/2020	ND<10	FALSE
GWC-8A	6/16/2021	ND<10	FALSE
GWC-8A	12/15/2021	ND<10	FALSE
GWC-8A	6/9/2022	ND<10	FALSE
GWC-8A	12/13/2022	ND<10	FALSE
GWC-8A	6/21/2023	ND<10	FALSE
GWC-8A	12/13/2023	ND<10	FALSE

GWC-8R	6/20/2018	ND<10	FALSE
GWC-8R	12/19/2018	ND<10	FALSE
GWC-8R	6/12/2019	ND<10	FALSE
GWC-8R	12/11/2019	ND<10	FALSE
GWC-8R	6/23/2020	ND<10	FALSE
GWC-8R	12/15/2020	ND<10	FALSE
GWC-8R	6/16/2021	ND<10	FALSE
GWC-8R	12/15/2021	ND<10	FALSE
GWC-8R	6/9/2022	ND<10	FALSE
GWC-8R	12/13/2022	ND<10	FALSE
GWC-8R	6/21/2023	ND<10	FALSE
GWC-8R	12/12/2023	ND<10	FALSE

GWC-9	6/20/2018	ND<10	FALSE
GWC-9	12/18/2018	ND<10	FALSE
GWC-9	6/12/2019	ND<10	FALSE
GWC-9	12/12/2019	ND<10	FALSE
GWC-9	6/24/2020	ND<10	FALSE
GWC-9	12/17/2020	ND<10	FALSE
GWC-9	6/15/2021	ND<10	FALSE
GWC-9	12/13/2021	ND<10	FALSE
GWC-9	6/7/2022	ND<10	FALSE
GWC-9	12/14/2022	ND<10	FALSE
GWC-9	6/20/2023	ND<10	FALSE
GWC-9	12/11/2023	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chlorobenzene

GWC-16A	6/21/2018	ND<10	FALSE
GWC-16A	12/19/2018	ND<10	FALSE
GWC-16A	6/13/2019	ND<10	FALSE
GWC-16A	12/11/2019	ND<10	FALSE
GWC-16A	6/23/2020	ND<10	FALSE
GWC-16A	12/17/2020	ND<10	FALSE
GWC-16A	6/16/2021	ND<10	FALSE
GWC-16A	12/16/2021	ND<10	FALSE
GWC-16A	6/9/2022	ND<10	FALSE
GWC-16A	12/14/2022	ND<10	FALSE
GWC-16A	6/20/2023	ND<10	FALSE
GWC-16A	12/12/2023	ND<10	FALSE

GWC-3	6/21/2018	ND<10	FALSE
GWC-3	12/17/2018	ND<10	FALSE
GWC-3	6/11/2019	ND<10	FALSE
GWC-3	12/10/2019	ND<10	FALSE
GWC-3	6/24/2020	ND<10	FALSE
GWC-3	12/16/2020	ND<10	FALSE
GWC-3	6/15/2021	ND<10	FALSE
GWC-3	12/15/2021	ND<10	FALSE
GWC-3	6/7/2022	ND<10	FALSE
GWC-3	12/12/2022	ND<10	FALSE
GWC-3	6/19/2023	ND<10	FALSE

GWC-5	6/21/2018	ND<10	FALSE
GWC-5	12/18/2018	ND<10	FALSE
GWC-5	6/12/2019	ND<10	FALSE
GWC-5	12/10/2019	ND<10	FALSE
GWC-5	6/23/2020	ND<10	FALSE
GWC-5	12/17/2020	ND<10	FALSE
GWC-5	6/15/2021	ND<10	FALSE
GWC-5	12/13/2021	ND<10	FALSE
GWC-5	6/8/2022	ND<10	FALSE
GWC-5	12/12/2022	ND<10	FALSE
GWC-5	6/20/2023	ND<10	FALSE
GWC-5	12/11/2023	ND<10	FALSE

GWC-6	6/21/2018	ND<10	FALSE
GWC-6	12/19/2018	ND<10	FALSE
GWC-6	6/12/2019	ND<10	FALSE
GWC-6	12/10/2019	ND<10	FALSE
GWC-6	6/24/2020	ND<10	FALSE
GWC-6	12/17/2020	ND<10	FALSE
GWC-6	6/15/2021	ND<10	FALSE
GWC-6	12/13/2021	ND<10	FALSE
GWC-6	6/8/2022	ND<10	FALSE
GWC-6	12/14/2022	ND<10	FALSE
GWC-6	6/20/2023	ND<10	FALSE
GWC-6	12/12/2023	ND<10	FALSE

Non-Parametric Tolerance Interval

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.0223%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	ND<2	FALSE
<hr/>			
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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	ND<2	FALSE
<hr/>			
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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	ND<2	FALSE
<hr/>			
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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	ND<2	FALSE
<hr/>			
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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	ND<2	FALSE
<hr/>			
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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	ND<2	FALSE
<hr/>			
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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	ND<2	FALSE
<hr/>			
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	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-15	6/16/2021	ND<2	FALSE
GWC-15	12/14/2021	ND<2	FALSE
GWC-15	6/9/2022	ND<2	FALSE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-17	6/9/2022	ND<2	FALSE
GWC-17	12/14/2022	ND<2	FALSE
GWC-17	6/20/2023	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-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	ND<2	FALSE
GWC-18	6/7/2022	ND<2	FALSE
GWC-18	12/14/2022	ND<2	FALSE
GWC-18	6/20/2023	ND<2	FALSE
GWC-18	12/12/2023	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-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	ND<2	FALSE
GWC-19R	6/6/2022	ND<2	FALSE
GWC-19R	12/14/2022	ND<2	FALSE
GWC-19R	6/20/2023	ND<2	FALSE
GWC-19R	12/13/2023	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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

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
GWC-14A	6/15/2021	3	TRUE
GWC-14A	12/14/2021	5	TRUE
GWC-14A	6/9/2022	3.7	TRUE
GWC-14A	12/13/2022	3.4	TRUE
GWC-14A	6/20/2023	2.4	TRUE
GWC-14A	12/12/2023	5.5	TRUE

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-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

GWC-14R	6/9/2022	ND<2	FALSE
GWC-14R	12/13/2022	ND<2	FALSE
GWC-14R	6/21/2023	ND<2	FALSE
GWC-14R	12/12/2023	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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	ND<2	FALSE
GWC-8	6/21/2023	ND<2	FALSE
GWC-8	12/12/2023	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
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8A	6/9/2022	ND<2	FALSE
GWC-8A	12/13/2022	ND<2	FALSE
GWC-8A	6/21/2023	ND<2	FALSE
GWC-8A	12/13/2023	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-8R	6/16/2021	ND<2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-8R	6/9/2022	ND<2	FALSE
GWC-8R	12/13/2022	ND<2	FALSE
GWC-8R	6/21/2023	ND<2	FALSE
GWC-8R	12/12/2023	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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chloroethane

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-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	ND<2	FALSE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.1957%

Background measurements (n) = 25

Maximum Background Concentration = 10

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/15/2021	ND<10	FALSE
GWA-3	12/15/2021	ND<10	FALSE
GWA-3	6/7/2022	ND<10	FALSE
GWA-3	12/14/2022	ND<10	FALSE
GWA-3	6/21/2023	ND<10	FALSE
GWA-3	12/12/2023	ND<10	FALSE

GWC-23	6/19/2018	ND<10	FALSE
GWC-23	12/19/2018	ND<10	FALSE
GWC-23	6/13/2019	ND<10	FALSE
GWC-23	12/12/2019	ND<10	FALSE
GWC-23	6/24/2020	ND<10	FALSE
GWC-23	12/17/2020	ND<10	FALSE
GWC-23	6/15/2021	ND<10	FALSE
GWC-23	12/14/2021	ND<10	FALSE
GWC-23	6/7/2022	ND<10	FALSE
GWC-23	12/13/2022	ND<10	FALSE
GWC-23	6/22/2023	ND<10	FALSE
GWC-23	12/12/2023	ND<10	FALSE

GWC-23A	6/19/2018	ND<10	FALSE
GWC-23A	12/19/2018	ND<10	FALSE
GWC-23A	6/13/2019	ND<10	FALSE
GWC-23A	12/12/2019	ND<10	FALSE
GWC-23A	6/24/2020	ND<10	FALSE
GWC-23A	12/17/2020	ND<10	FALSE
GWC-23A	6/15/2021	ND<10	FALSE
GWC-23A	12/14/2021	ND<10	FALSE
GWC-23A	6/7/2022	ND<10	FALSE
GWC-23A	12/13/2022	ND<10	FALSE
GWC-23A	6/22/2023	ND<10	FALSE
GWC-23A	12/12/2023	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-1A	6/17/2021	ND<10	FALSE
GWA-1A	12/16/2021	ND<10	FALSE
GWA-1A	6/8/2022	ND<10	FALSE
GWA-1A	12/14/2022	ND<10	FALSE
GWA-1A	6/22/2023	ND<10	FALSE
GWA-1A	12/13/2023	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-10	6/16/2021	ND<10	FALSE
GWC-10	12/16/2021	ND<10	FALSE
GWC-10	6/8/2022	ND<10	FALSE
GWC-10	12/15/2022	ND<10	FALSE
GWC-10	6/22/2023	ND<10	FALSE
GWC-10	12/12/2023	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-10A	6/16/2021	ND<10	FALSE
GWC-10A	12/16/2021	ND<10	FALSE
GWC-10A	6/8/2022	ND<10	FALSE
GWC-10A	12/15/2022	ND<10	FALSE
GWC-10A	6/22/2023	ND<10	FALSE
GWC-10A	12/12/2023	ND<10	FALSE

GWC-11	6/20/2018	ND<10	FALSE
GWC-11	12/20/2018	ND<10	FALSE
GWC-11	6/13/2019	ND<10	FALSE
GWC-11	12/13/2019	ND<10	FALSE
GWC-11	6/25/2020	ND<10	FALSE
GWC-11	12/16/2020	ND<10	FALSE
GWC-11	6/16/2021	ND<10	FALSE
GWC-11	12/14/2021	ND<10	FALSE
GWC-11	6/8/2022	ND<10	FALSE
GWC-11	12/13/2022	ND<10	FALSE
GWC-11	6/21/2023	ND<10	FALSE
GWC-11	12/12/2023	ND<10	FALSE

GWC-12	6/20/2018	ND<10	FALSE
GWC-12	12/20/2018	ND<10	FALSE
GWC-12	6/12/2019	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

GWC-12	12/10/2019	ND<10	FALSE
GWC-12	6/25/2020	ND<10	FALSE
GWC-12	12/22/2020	ND<10	FALSE
GWC-12	6/16/2021	ND<10	FALSE
GWC-12	12/14/2021	ND<10	FALSE
GWC-12	6/8/2022	ND<10	FALSE
GWC-12	12/13/2022	ND<10	FALSE
GWC-12	6/21/2023	ND<10	FALSE
GWC-12	12/13/2023	ND<10	FALSE

GWC-12A	6/20/2018	ND<10	FALSE
GWC-12A	12/20/2018	ND<10	FALSE
GWC-12A	6/12/2019	ND<10	FALSE
GWC-12A	12/10/2019	ND<10	FALSE
GWC-12A	6/25/2020	ND<10	FALSE
GWC-12A	12/16/2020	ND<10	FALSE
GWC-12A	6/16/2021	ND<10	FALSE
GWC-12A	12/14/2021	18.4	TRUE
GWC-12A	6/8/2022	ND<10	FALSE
GWC-12A	12/13/2022	ND<10	FALSE
GWC-12A	6/21/2023	ND<10	FALSE
GWC-12A	12/13/2023	ND<10	FALSE

GWC-13	6/20/2018	ND<10	FALSE
GWC-13	12/20/2018	ND<10	FALSE
GWC-13	6/13/2019	ND<10	FALSE
GWC-13	12/12/2019	ND<10	FALSE
GWC-13	6/24/2020	ND<10	FALSE
GWC-13	12/16/2020	ND<10	FALSE
GWC-13	6/16/2021	ND<10	FALSE
GWC-13	12/16/2021	ND<10	FALSE
GWC-13	6/9/2022	ND<10	FALSE
GWC-13	12/13/2022	ND<10	FALSE
GWC-13	6/21/2023	ND<10	FALSE
GWC-13	12/13/2023	ND<10	FALSE

GWC-15	6/20/2018	ND<10	FALSE
GWC-15	12/19/2018	ND<10	FALSE
GWC-15	6/11/2019	ND<10	FALSE
GWC-15	12/10/2019	ND<10	FALSE
GWC-15	6/25/2020	ND<10	FALSE
GWC-15	12/17/2020	ND<10	FALSE
GWC-15	6/16/2021	ND<10	FALSE
GWC-15	12/14/2021	ND<10	FALSE
GWC-15	6/9/2022	ND<10	FALSE
GWC-15	12/15/2022	ND<10	FALSE
GWC-15	6/22/2023	ND<10	FALSE
GWC-15	12/13/2023	ND<10	FALSE

GWC-17	6/20/2018	ND<10	FALSE
GWC-17	12/20/2018	ND<10	FALSE
GWC-17	6/13/2019	ND<10	FALSE
GWC-17	12/11/2019	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

GWC-17	6/24/2020	ND<10	FALSE
GWC-17	12/16/2020	ND<10	FALSE
GWC-17	6/15/2021	ND<10	FALSE
GWC-17	12/15/2021	ND<10	FALSE
GWC-17	6/10/2022	ND<20	TRUE
GWC-17	12/15/2022	ND<10	FALSE
GWC-17	6/21/2023	ND<10	FALSE

GWC-18	6/20/2018	ND<10	FALSE
GWC-18	12/19/2018	ND<10	FALSE
GWC-18	6/12/2019	ND<10	FALSE
GWC-18	12/10/2019	ND<10	FALSE
GWC-18	6/24/2020	ND<10	FALSE
GWC-18	12/16/2020	ND<10	FALSE
GWC-18	6/15/2021	ND<10	FALSE
GWC-18	12/15/2021	ND<10	FALSE
GWC-18	6/8/2022	ND<20	TRUE
GWC-18	12/15/2022	ND<10	FALSE
GWC-18	6/21/2023	ND<10	FALSE
GWC-18	12/13/2023	ND<10	FALSE

GWC-19R	6/20/2018	ND<10	FALSE
GWC-19R	12/19/2018	ND<10	FALSE
GWC-19R	6/12/2019	ND<10	FALSE
GWC-19R	12/10/2019	ND<10	FALSE
GWC-19R	6/24/2020	ND<10	FALSE
GWC-19R	12/16/2020	ND<10	FALSE
GWC-19R	6/15/2021	ND<10	FALSE
GWC-19R	12/15/2021	ND<10	FALSE
GWC-19R	6/7/2022	ND<20	TRUE
GWC-19R	12/15/2022	ND<10	FALSE
GWC-19R	6/21/2023	ND<10	FALSE
GWC-19R	12/14/2023	ND<10	FALSE

GWC-22	6/20/2018	ND<10	FALSE
GWC-22	12/19/2018	ND<10	FALSE
GWC-22	6/13/2019	ND<10	FALSE
GWC-22	12/12/2019	ND<10	FALSE
GWC-22	6/24/2020	ND<10	FALSE
GWC-22	12/18/2020	ND<10	FALSE
GWC-22	6/15/2021	ND<10	FALSE
GWC-22	12/14/2021	ND<10	FALSE
GWC-22	6/7/2022	ND<10	FALSE
GWC-22	12/13/2022	ND<10	FALSE
GWC-22	6/21/2023	ND<10	FALSE
GWC-22	12/12/2023	ND<10	FALSE

GWC-24	6/20/2018	ND<10	FALSE
GWC-24	6/12/2019	ND<10	FALSE
GWC-24	12/10/2019	ND<10	FALSE
GWC-24	6/25/2020	ND<10	FALSE
GWC-24	6/15/2021	ND<10	FALSE
GWC-24	6/8/2022	ND<20	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

GWC-24	12/15/2022	ND<10	FALSE
GWC-24	6/21/2023	ND<10	FALSE
GWC-24	12/13/2023	ND<10	FALSE

GWC-7	6/20/2018	ND<10	FALSE
GWC-7	12/19/2018	ND<10	FALSE
GWC-7	6/13/2019	ND<10	FALSE
GWC-7	12/12/2019	ND<10	FALSE
GWC-7	6/25/2020	ND<10	FALSE
GWC-7	12/18/2020	ND<10	FALSE
GWC-7	6/16/2021	ND<10	FALSE
GWC-7	12/14/2021	ND<10	FALSE
GWC-7	6/9/2022	ND<10	FALSE
GWC-7	12/13/2022	ND<10	FALSE
GWC-7	6/21/2023	ND<10	FALSE
GWC-7	12/12/2023	ND<10	FALSE

GWC-16A	6/21/2018	ND<10	FALSE
GWC-16A	12/20/2018	ND<10	FALSE
GWC-16A	6/13/2019	ND<10	FALSE
GWC-16A	12/12/2019	ND<10	FALSE
GWC-16A	6/23/2020	ND<10	FALSE
GWC-16A	12/17/2020	ND<10	FALSE
GWC-16A	6/16/2021	ND<10	FALSE
GWC-16A	12/16/2021	ND<10	FALSE
GWC-16A	6/10/2022	ND<20	TRUE
GWC-16A	12/15/2022	ND<10	FALSE
GWC-16A	12/13/2023	ND<10	FALSE

GWC-14	6/21/2018	ND<10	FALSE
GWC-14	6/12/2019	ND<10	FALSE
GWC-14	12/11/2019	ND<10	FALSE
GWC-14	6/25/2020	ND<10	FALSE
GWC-14	12/18/2020	ND<10	FALSE
GWC-14	6/16/2021	ND<10	FALSE
GWC-14	12/16/2021	ND<10	FALSE
GWC-14	6/10/2022	ND<10	FALSE
GWC-14	6/22/2023	ND<10	FALSE

GWC-14A	6/21/2018	ND<10	FALSE
GWC-14A	12/19/2018	ND<10	FALSE
GWC-14A	6/12/2019	ND<10	FALSE
GWC-14A	12/11/2019	ND<10	FALSE
GWC-14A	6/24/2020	ND<10	FALSE
GWC-14A	12/16/2020	ND<10	FALSE
GWC-14A	6/16/2021	ND<10	FALSE
GWC-14A	12/15/2021	ND<10	FALSE
GWC-14A	6/10/2022	ND<10	FALSE
GWC-14A	12/14/2022	ND<10	FALSE
GWC-14A	6/21/2023	ND<10	FALSE
GWC-14A	12/13/2023	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

GWC-2	6/21/2018	ND<10	FALSE
GWC-2	12/20/2018	ND<10	FALSE
GWC-2	6/13/2019	ND<10	FALSE
GWC-2	12/11/2019	ND<10	FALSE
GWC-2	6/23/2020	ND<10	FALSE
GWC-2	12/17/2020	ND<10	FALSE
GWC-2	6/16/2021	ND<10	FALSE
GWC-2	12/16/2021	ND<10	FALSE
GWC-2	6/8/2022	18.5	TRUE
GWC-2	12/13/2022	ND<10	FALSE
GWC-2	6/20/2023	ND<10	FALSE
GWC-2	12/12/2023	ND<10	FALSE

GWC-3	6/21/2018	ND<10	FALSE
GWC-3	12/18/2018	ND<10	FALSE
GWC-3	6/12/2019	ND<10	FALSE
GWC-3	12/11/2019	ND<10	FALSE
GWC-3	6/25/2020	ND<10	FALSE
GWC-3	12/17/2020	ND<10	FALSE
GWC-3	6/16/2021	ND<10	FALSE
GWC-3	12/16/2021	ND<10	FALSE
GWC-3	6/8/2022	ND<10	FALSE
GWC-3	6/20/2023	ND<10	FALSE

GWC-3A	6/21/2018	ND<10	FALSE
GWC-3A	12/18/2018	ND<10	FALSE
GWC-3A	6/12/2019	ND<10	FALSE
GWC-3A	12/11/2019	ND<10	FALSE
GWC-3A	6/25/2020	ND<10	FALSE
GWC-3A	12/17/2020	ND<10	FALSE
GWC-3A	6/15/2021	ND<10	FALSE
GWC-3A	12/16/2021	ND<10	FALSE
GWC-3A	6/8/2022	ND<10	FALSE
GWC-3A	12/13/2022	ND<10	FALSE
GWC-3A	6/20/2023	ND<10	FALSE
GWC-3A	12/13/2023	ND<10	FALSE

GWC-4	6/21/2018	ND<10	FALSE
GWC-4	6/24/2020	ND<10	FALSE
GWC-4	12/18/2020	ND<10	FALSE
GWC-4	6/17/2021	ND<10	FALSE
GWC-4	12/15/2021	ND<10	FALSE
GWC-4	6/9/2022	ND<10	FALSE
GWC-4	12/13/2022	ND<10	FALSE
GWC-4	6/21/2023	ND<10	FALSE
GWC-4	12/13/2023	ND<10	FALSE

GWC-4A	6/21/2018	ND<10	FALSE
GWC-4A	12/18/2018	ND<10	FALSE
GWC-4A	6/12/2019	26	TRUE
GWC-4A	12/12/2019	ND<10	FALSE
GWC-4A	6/24/2020	ND<10	FALSE
GWC-4A	12/18/2020	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

GWC-4A	6/18/2021	ND<10	FALSE
GWC-4A	12/16/2021	ND<10	FALSE
GWC-4A	6/8/2022	ND<10	FALSE
GWC-4A	12/15/2022	ND<10	FALSE
GWC-4A	6/22/2023	ND<10	FALSE
GWC-4A	12/13/2023	ND<10	FALSE

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
GWC-5	6/16/2021	ND<10	FALSE
GWC-5	12/14/2021	ND<10	FALSE
GWC-5	6/9/2022	ND<10	FALSE
GWC-5	12/13/2022	ND<10	FALSE
GWC-5	6/21/2023	ND<10	FALSE
GWC-5	12/12/2023	ND<10	FALSE

GWC-6	6/21/2018	ND<10	FALSE
GWC-6	12/20/2018	ND<10	FALSE
GWC-6	6/13/2019	ND<10	FALSE
GWC-6	12/11/2019	ND<10	FALSE
GWC-6	6/25/2020	ND<10	FALSE
GWC-6	12/18/2020	ND<10	FALSE
GWC-6	6/16/2021	ND<10	FALSE
GWC-6	12/14/2021	ND<10	FALSE
GWC-6	6/9/2022	ND<10	FALSE
GWC-6	12/15/2022	ND<10	FALSE
GWC-6	6/21/2023	ND<10	FALSE
GWC-6	12/13/2023	ND<10	FALSE

GWC-8	6/21/2018	ND<10	FALSE
GWC-8	6/13/2019	ND<10	FALSE
GWC-8	12/12/2019	ND<10	FALSE
GWC-8	6/24/2020	ND<10	FALSE
GWC-8	12/17/2020	ND<10	FALSE
GWC-8	6/17/2021	ND<10	FALSE
GWC-8	12/16/2021	ND<10	FALSE
GWC-8	6/10/2022	ND<10	FALSE
GWC-8	12/14/2022	ND<10	FALSE
GWC-8	6/22/2023	ND<10	FALSE
GWC-8	12/13/2023	ND<10	FALSE

GWC-8A	6/21/2018	ND<10	FALSE
GWC-8A	12/20/2018	ND<10	FALSE
GWC-8A	6/13/2019	ND<10	FALSE
GWC-8A	12/12/2019	ND<10	FALSE
GWC-8A	6/24/2020	ND<10	FALSE
GWC-8A	12/16/2020	ND<10	FALSE
GWC-8A	6/17/2021	ND<10	FALSE
GWC-8A	12/16/2021	ND<10	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Chromium

GWC-8A	6/10/2022	ND<10	FALSE
GWC-8A	12/14/2022	ND<10	FALSE
GWC-8A	6/22/2023	ND<10	FALSE
GWC-8A	12/14/2023	ND<10	FALSE

GWC-9	6/21/2018	ND<10	FALSE
GWC-9	12/19/2018	ND<10	FALSE
GWC-9	6/13/2019	ND<10	FALSE
GWC-9	12/13/2019	ND<10	FALSE
GWC-9	6/25/2020	ND<10	FALSE
GWC-9	12/18/2020	ND<10	FALSE
GWC-9	6/16/2021	ND<10	FALSE
GWC-9	12/14/2021	ND<10	FALSE
GWC-9	6/8/2022	ND<10	FALSE
GWC-9	12/15/2022	ND<10	FALSE
GWC-9	6/21/2023	ND<10	FALSE
GWC-9	12/12/2023	ND<10	FALSE

GWC-14R	6/9/2022	ND<10	FALSE
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GWC-8R	6/9/2022	ND<10	FALSE
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Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 73.201%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	ND<2	FALSE
<hr/>			
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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	ND<2	FALSE
<hr/>			
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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	ND<2	FALSE
<hr/>			
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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	ND<2	FALSE

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-15	6/16/2021	130	TRUE
GWC-15	12/14/2021	140	TRUE
GWC-15	6/9/2022	150	TRUE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	170	TRUE

GWC-17	6/19/2018	4.7	TRUE
GWC-17	12/19/2018	8.7	TRUE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	15	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	22	TRUE
GWC-17	6/14/2021	2.2	TRUE
GWC-17	12/14/2021	7.6	TRUE
GWC-17	6/9/2022	5.4	TRUE
GWC-17	12/14/2022	2.1	TRUE
GWC-17	6/20/2023	ND<2	FALSE

GWC-18	6/19/2018	7.7	TRUE
GWC-18	12/18/2018	12	TRUE
GWC-18	6/11/2019	14	TRUE
GWC-18	12/9/2019	30	TRUE
GWC-18	6/23/2020	10	TRUE
GWC-18	12/15/2020	26	TRUE
GWC-18	6/14/2021	6.2	TRUE
GWC-18	12/14/2021	10	TRUE
GWC-18	6/7/2022	13	TRUE
GWC-18	12/14/2022	20	TRUE
GWC-18	6/20/2023	11	TRUE
GWC-18	12/12/2023	26	TRUE

GWC-19R	6/19/2018	5.1	TRUE
GWC-19R	12/18/2018	2.9	TRUE
GWC-19R	6/11/2019	7.7	TRUE
GWC-19R	12/9/2019	11	TRUE
GWC-19R	6/23/2020	7.2	TRUE
GWC-19R	12/15/2020	7.9	TRUE
GWC-19R	6/14/2021	5.3	TRUE
GWC-19R	12/14/2021	7.9	TRUE
GWC-19R	6/6/2022	4	TRUE
GWC-19R	12/14/2022	9.9	TRUE
GWC-19R	6/20/2023	3	TRUE
GWC-19R	12/13/2023	11	TRUE

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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

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-14A	6/15/2021	59	TRUE
GWC-14A	12/14/2021	77	TRUE
GWC-14A	6/9/2022	54	TRUE
GWC-14A	12/13/2022	86	TRUE
GWC-14A	6/20/2023	54	TRUE
GWC-14A	12/12/2023	82	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-14R	6/16/2021	26	TRUE
GWC-14R	12/14/2021	24	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

GWC-14R	6/9/2022	21	TRUE
GWC-14R	12/13/2022	22	TRUE
GWC-14R	6/21/2023	20	TRUE
GWC-14R	12/12/2023	23	TRUE

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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	3.4	TRUE
GWC-8	6/21/2023	2.7	TRUE
GWC-8	12/12/2023	9.1	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
GWC-8A	6/16/2021	24	TRUE
GWC-8A	12/15/2021	24	TRUE
GWC-8A	6/9/2022	27	TRUE
GWC-8A	12/13/2022	35	TRUE
GWC-8A	6/21/2023	23	TRUE
GWC-8A	12/13/2023	33	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-8R	6/16/2021	32	TRUE
GWC-8R	12/15/2021	24	TRUE
GWC-8R	6/9/2022	24	TRUE
GWC-8R	12/13/2022	29	TRUE
GWC-8R	6/21/2023	28	TRUE
GWC-8R	12/12/2023	29	TRUE

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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

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-16A	6/16/2021	2.1	TRUE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	9	TRUE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 94.1019%
 Background measurements (n) = 25
 Maximum Background Concentration = 40
 Minimum Coverage = 88.7%
 Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	12/17/2020	ND<40	FALSE
GWA-3	6/15/2021	ND<40	FALSE
GWA-3	12/15/2021	ND<40	FALSE
GWA-3	6/7/2022	ND<40	FALSE
GWA-3	12/14/2022	ND<40	FALSE
GWA-3	6/21/2023	ND<40	FALSE
GWA-3	12/12/2023	ND<40	FALSE
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GWC-23	6/19/2018	ND<40	FALSE
GWC-23	12/19/2018	ND<40	FALSE
GWC-23	6/13/2019	ND<40	FALSE
GWC-23	12/12/2019	ND<40	FALSE
GWC-23	6/24/2020	ND<40	FALSE
GWC-23	12/17/2020	ND<40	FALSE
GWC-23	6/15/2021	ND<40	FALSE
GWC-23	12/14/2021	ND<40	FALSE
GWC-23	6/7/2022	ND<40	FALSE
GWC-23	12/13/2022	ND<40	FALSE
GWC-23	6/22/2023	ND<40	FALSE
GWC-23	12/12/2023	ND<40	FALSE
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GWC-23A	6/19/2018	ND<40	FALSE
GWC-23A	12/19/2018	ND<40	FALSE
GWC-23A	6/13/2019	ND<40	FALSE
GWC-23A	12/12/2019	ND<40	FALSE
GWC-23A	6/24/2020	ND<40	FALSE
GWC-23A	12/17/2020	ND<40	FALSE
GWC-23A	6/15/2021	ND<40	FALSE
GWC-23A	12/14/2021	ND<40	FALSE
GWC-23A	6/7/2022	ND<40	FALSE
GWC-23A	12/13/2022	ND<40	FALSE
GWC-23A	6/22/2023	ND<40	FALSE
GWC-23A	12/12/2023	ND<40	FALSE
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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-1A	6/17/2021	ND<40	FALSE
GWA-1A	12/16/2021	ND<40	FALSE
GWA-1A	6/8/2022	ND<40	FALSE
GWA-1A	12/14/2022	ND<40	FALSE
GWA-1A	6/22/2023	ND<40	FALSE
GWA-1A	12/13/2023	ND<40	FALSE
<hr/>			
GWC-10	6/20/2018	ND<40	FALSE
GWC-10	12/18/2018	ND<40	FALSE
GWC-10	6/11/2019	ND<40	FALSE
GWC-10	12/13/2019	ND<40	FALSE
GWC-10	6/25/2020	ND<40	FALSE
GWC-10	12/16/2020	ND<40	FALSE
GWC-10	6/16/2021	ND<40	FALSE
GWC-10	12/16/2021	ND<40	FALSE
GWC-10	6/8/2022	ND<40	FALSE
GWC-10	12/15/2022	ND<40	FALSE
GWC-10	6/22/2023	ND<40	FALSE
GWC-10	12/12/2023	ND<40	FALSE
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GWC-10A	6/20/2018	ND<40	FALSE
GWC-10A	12/18/2018	ND<40	FALSE
GWC-10A	6/11/2019	ND<40	FALSE
GWC-10A	12/13/2019	ND<40	FALSE
GWC-10A	6/25/2020	ND<40	FALSE
GWC-10A	12/16/2020	ND<40	FALSE
GWC-10A	6/16/2021	ND<40	FALSE
GWC-10A	12/16/2021	ND<40	FALSE
GWC-10A	6/8/2022	ND<40	FALSE
GWC-10A	12/15/2022	ND<40	FALSE
GWC-10A	6/22/2023	ND<40	FALSE
GWC-10A	12/12/2023	ND<40	FALSE
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GWC-11	6/20/2018	ND<40	FALSE
GWC-11	12/20/2018	ND<40	FALSE
GWC-11	6/13/2019	ND<40	FALSE
GWC-11	12/13/2019	ND<40	FALSE
GWC-11	6/25/2020	ND<40	FALSE
GWC-11	12/16/2020	ND<40	FALSE
GWC-11	6/16/2021	ND<40	FALSE
GWC-11	12/14/2021	ND<40	FALSE
GWC-11	6/8/2022	ND<40	FALSE
GWC-11	12/13/2022	ND<40	FALSE
GWC-11	6/21/2023	ND<40	FALSE
GWC-11	12/12/2023	ND<40	FALSE
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GWC-12	6/20/2018	ND<40	FALSE
GWC-12	12/20/2018	ND<40	FALSE
GWC-12	6/12/2019	ND<40	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Cobalt

GWC-12	12/10/2019	ND<40	FALSE
GWC-12	6/25/2020	ND<40	FALSE
GWC-12	12/22/2020	ND<40	FALSE
GWC-12	6/16/2021	ND<40	FALSE
GWC-12	12/14/2021	ND<40	FALSE
GWC-12	6/8/2022	ND<40	FALSE
GWC-12	12/13/2022	ND<40	FALSE
GWC-12	6/21/2023	ND<40	FALSE
GWC-12	12/13/2023	ND<40	FALSE

GWC-12A	6/20/2018	ND<40	FALSE
GWC-12A	12/20/2018	ND<40	FALSE
GWC-12A	6/12/2019	ND<40	FALSE
GWC-12A	12/10/2019	ND<40	FALSE
GWC-12A	6/25/2020	ND<40	FALSE
GWC-12A	12/16/2020	ND<40	FALSE
GWC-12A	6/16/2021	ND<40	FALSE
GWC-12A	12/14/2021	ND<40	FALSE
GWC-12A	6/8/2022	ND<40	FALSE
GWC-12A	12/13/2022	ND<40	FALSE
GWC-12A	6/21/2023	ND<40	FALSE
GWC-12A	12/13/2023	ND<40	FALSE

GWC-13	6/20/2018	ND<40	FALSE
GWC-13	12/20/2018	ND<40	FALSE
GWC-13	6/13/2019	ND<40	FALSE
GWC-13	12/12/2019	ND<40	FALSE
GWC-13	6/24/2020	ND<40	FALSE
GWC-13	12/16/2020	ND<40	FALSE
GWC-13	6/16/2021	ND<40	FALSE
GWC-13	12/16/2021	ND<40	FALSE
GWC-13	6/9/2022	ND<40	FALSE
GWC-13	12/13/2022	ND<40	FALSE
GWC-13	6/21/2023	ND<40	FALSE
GWC-13	12/13/2023	ND<40	FALSE

GWC-15	6/20/2018	ND<40	FALSE
GWC-15	12/19/2018	ND<40	FALSE
GWC-15	6/11/2019	ND<40	FALSE
GWC-15	12/10/2019	ND<40	FALSE
GWC-15	6/25/2020	ND<40	FALSE
GWC-15	12/17/2020	ND<40	FALSE
GWC-15	6/16/2021	ND<40	FALSE
GWC-15	12/14/2021	ND<40	FALSE
GWC-15	6/9/2022	ND<40	FALSE
GWC-15	12/15/2022	ND<40	FALSE
GWC-15	6/22/2023	ND<40	FALSE
GWC-15	12/13/2023	ND<40	FALSE

GWC-17	6/20/2018	ND<40	FALSE
GWC-17	12/20/2018	ND<40	FALSE
GWC-17	6/13/2019	ND<40	FALSE
GWC-17	12/11/2019	ND<40	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Cobalt

GWC-17	6/24/2020	ND<40	FALSE
GWC-17	12/16/2020	ND<40	FALSE
GWC-17	6/15/2021	ND<40	FALSE
GWC-17	12/15/2021	ND<40	FALSE
GWC-17	6/10/2022	ND<50	TRUE
GWC-17	12/15/2022	ND<40	FALSE
GWC-17	6/21/2023	ND<40	FALSE

GWC-18	6/20/2018	ND<40	FALSE
GWC-18	12/19/2018	ND<40	FALSE
GWC-18	6/12/2019	ND<40	FALSE
GWC-18	12/10/2019	ND<40	FALSE
GWC-18	6/24/2020	ND<40	FALSE
GWC-18	12/16/2020	ND<40	FALSE
GWC-18	6/15/2021	ND<40	FALSE
GWC-18	12/15/2021	ND<40	FALSE
GWC-18	6/8/2022	ND<50	TRUE
GWC-18	12/15/2022	ND<40	FALSE
GWC-18	6/21/2023	ND<40	FALSE
GWC-18	12/13/2023	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
GWC-19R	6/15/2021	45.2	TRUE
GWC-19R	12/15/2021	40.4	TRUE
GWC-19R	6/7/2022	ND<50	TRUE
GWC-19R	12/15/2022	ND<40	FALSE
GWC-19R	6/21/2023	ND<40	FALSE
GWC-19R	12/14/2023	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-22	6/15/2021	ND<40	FALSE
GWC-22	12/14/2021	ND<40	FALSE
GWC-22	6/7/2022	ND<40	FALSE
GWC-22	12/13/2022	ND<40	FALSE
GWC-22	6/21/2023	ND<40	FALSE
GWC-22	12/12/2023	ND<40	FALSE

GWC-24	6/20/2018	ND<40	FALSE
GWC-24	6/12/2019	ND<40	FALSE
GWC-24	12/10/2019	ND<40	FALSE
GWC-24	6/25/2020	ND<40	FALSE
GWC-24	6/15/2021	ND<40	FALSE
GWC-24	6/8/2022	ND<50	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

Cobalt

GWC-24	12/15/2022	ND<40	FALSE
GWC-24	6/21/2023	ND<40	FALSE
GWC-24	12/13/2023	ND<40	FALSE

GWC-7	6/20/2018	ND<40	FALSE
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
GWC-7	6/16/2021	ND<40	FALSE
GWC-7	12/14/2021	ND<40	FALSE
GWC-7	6/9/2022	ND<40	FALSE
GWC-7	12/13/2022	ND<40	FALSE
GWC-7	6/21/2023	ND<40	FALSE
GWC-7	12/12/2023	ND<40	FALSE

GWC-16A	6/21/2018	ND<40	FALSE
GWC-16A	12/20/2018	ND<40	FALSE
GWC-16A	6/13/2019	ND<40	FALSE
GWC-16A	12/12/2019	ND<40	FALSE
GWC-16A	6/23/2020	ND<40	FALSE
GWC-16A	12/17/2020	ND<40	FALSE
GWC-16A	6/16/2021	ND<40	FALSE
GWC-16A	12/16/2021	ND<40	FALSE
GWC-16A	6/10/2022	ND<50	TRUE
GWC-16A	12/15/2022	ND<40	FALSE
GWC-16A	12/13/2023	ND<40	FALSE

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-14	6/16/2021	87.6	TRUE
GWC-14	12/16/2021	ND<40	FALSE
GWC-14	6/10/2022	85.5	TRUE
GWC-14	6/22/2023	55	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-14A	6/16/2021	306	TRUE
GWC-14A	12/15/2021	192	TRUE
GWC-14A	6/10/2022	252	TRUE
GWC-14A	12/14/2022	192	TRUE
GWC-14A	6/21/2023	226	TRUE
GWC-14A	12/13/2023	174	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

Cobalt

GWC-2	6/21/2018	ND<40	FALSE
GWC-2	12/20/2018	ND<40	FALSE
GWC-2	6/13/2019	ND<40	FALSE
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-2	6/16/2021	ND<40	FALSE
GWC-2	12/16/2021	ND<40	FALSE
GWC-2	6/8/2022	ND<40	FALSE
GWC-2	12/13/2022	ND<40	FALSE
GWC-2	6/20/2023	ND<40	FALSE
GWC-2	12/12/2023	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-3	6/16/2021	ND<40	FALSE
GWC-3	12/16/2021	ND<40	FALSE
GWC-3	6/8/2022	ND<40	FALSE
GWC-3	6/20/2023	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
GWC-3A	6/15/2021	ND<40	FALSE
GWC-3A	12/16/2021	ND<40	FALSE
GWC-3A	6/8/2022	ND<40	FALSE
GWC-3A	12/13/2022	ND<40	FALSE
GWC-3A	6/20/2023	ND<40	FALSE
GWC-3A	12/13/2023	ND<40	FALSE

GWC-4	6/21/2018	ND<40	FALSE
GWC-4	6/24/2020	ND<40	FALSE
GWC-4	12/18/2020	ND<40	FALSE
GWC-4	6/17/2021	ND<40	FALSE
GWC-4	12/15/2021	ND<40	FALSE
GWC-4	6/9/2022	ND<40	FALSE
GWC-4	12/13/2022	ND<40	FALSE
GWC-4	6/21/2023	ND<40	FALSE
GWC-4	12/13/2023	ND<40	FALSE

GWC-4A	6/21/2018	ND<40	FALSE
GWC-4A	12/18/2018	ND<40	FALSE
GWC-4A	6/12/2019	ND<40	FALSE
GWC-4A	12/12/2019	ND<40	FALSE
GWC-4A	6/24/2020	ND<40	FALSE
GWC-4A	12/18/2020	ND<40	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Cobalt

GWC-4A	6/18/2021	ND<40	FALSE
GWC-4A	12/16/2021	ND<40	FALSE
GWC-4A	6/8/2022	ND<40	FALSE
GWC-4A	12/15/2022	ND<40	FALSE
GWC-4A	6/22/2023	ND<40	FALSE
GWC-4A	12/13/2023	ND<40	FALSE

GWC-5	6/21/2018	ND<40	FALSE
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
GWC-5	6/16/2021	ND<40	FALSE
GWC-5	12/14/2021	ND<40	FALSE
GWC-5	6/9/2022	ND<40	FALSE
GWC-5	12/13/2022	ND<40	FALSE
GWC-5	6/21/2023	ND<40	FALSE
GWC-5	12/12/2023	ND<40	FALSE

GWC-6	6/21/2018	ND<40	FALSE
GWC-6	12/20/2018	ND<40	FALSE
GWC-6	6/13/2019	ND<40	FALSE
GWC-6	12/11/2019	ND<40	FALSE
GWC-6	6/25/2020	ND<40	FALSE
GWC-6	12/18/2020	ND<40	FALSE
GWC-6	6/16/2021	ND<40	FALSE
GWC-6	12/14/2021	ND<40	FALSE
GWC-6	6/9/2022	ND<40	FALSE
GWC-6	12/15/2022	ND<40	FALSE
GWC-6	6/21/2023	ND<40	FALSE
GWC-6	12/13/2023	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-8	6/17/2021	ND<40	FALSE
GWC-8	12/16/2021	ND<40	FALSE
GWC-8	6/10/2022	ND<40	FALSE
GWC-8	12/14/2022	ND<40	FALSE
GWC-8	6/22/2023	ND<40	FALSE
GWC-8	12/13/2023	ND<40	FALSE

GWC-8A	6/21/2018	ND<40	FALSE
GWC-8A	12/20/2018	ND<40	FALSE
GWC-8A	6/13/2019	ND<40	FALSE
GWC-8A	12/12/2019	ND<40	FALSE
GWC-8A	6/24/2020	ND<40	FALSE
GWC-8A	12/16/2020	ND<40	FALSE
GWC-8A	6/17/2021	ND<40	FALSE
GWC-8A	12/16/2021	ND<40	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Cobalt

GWC-8A	6/10/2022	ND<40	FALSE
GWC-8A	12/14/2022	ND<40	FALSE
GWC-8A	6/22/2023	ND<40	FALSE
GWC-8A	12/14/2023	ND<40	FALSE

GWC-9	6/21/2018	ND<40	FALSE
GWC-9	12/19/2018	ND<40	FALSE
GWC-9	6/13/2019	ND<40	FALSE
GWC-9	12/13/2019	ND<40	FALSE
GWC-9	6/25/2020	ND<40	FALSE
GWC-9	12/18/2020	ND<40	FALSE
GWC-9	6/16/2021	ND<40	FALSE
GWC-9	12/14/2021	ND<40	FALSE
GWC-9	6/8/2022	ND<40	FALSE
GWC-9	12/15/2022	ND<40	FALSE
GWC-9	6/21/2023	ND<40	FALSE
GWC-9	12/12/2023	ND<40	FALSE

GWC-14R	6/9/2022	ND<40	FALSE
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GWC-8R	6/9/2022	ND<40	FALSE
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Non-Parametric Tolerance Interval

Parameter: Nickel

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.0509%

Background measurements (n) = 25

Maximum Background Concentration = 20

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	ND<20	FALSE
GWA-3	6/23/2020	ND<20	FALSE
GWA-3	12/17/2020	ND<20	FALSE
GWA-3	6/15/2021	ND<20	FALSE
GWA-3	12/15/2021	ND<20	FALSE
GWA-3	6/7/2022	ND<20	FALSE
GWA-3	12/14/2022	ND<20	FALSE
GWA-3	6/21/2023	ND<20	FALSE
GWA-3	12/12/2023	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-23	6/15/2021	ND<20	FALSE
GWC-23	12/14/2021	ND<20	FALSE
GWC-23	6/7/2022	ND<20	FALSE
GWC-23	12/13/2022	ND<20	FALSE
GWC-23	6/22/2023	ND<20	FALSE
GWC-23	12/12/2023	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-23A	6/15/2021	ND<20	FALSE
GWC-23A	12/14/2021	ND<20	FALSE
GWC-23A	6/7/2022	ND<20	FALSE
GWC-23A	12/13/2022	ND<20	FALSE
GWC-23A	6/22/2023	ND<20	FALSE
GWC-23A	12/12/2023	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
GWA-1A	6/17/2021	ND<20	FALSE
GWA-1A	12/16/2021	ND<20	FALSE
GWA-1A	6/8/2022	ND<20	FALSE
GWA-1A	12/14/2022	ND<20	FALSE
GWA-1A	6/22/2023	ND<20	FALSE
GWA-1A	12/13/2023	ND<20	FALSE

GWC-10	6/20/2018	ND<20	FALSE
GWC-10	12/18/2018	ND<20	FALSE
GWC-10	6/11/2019	ND<20	FALSE
GWC-10	12/13/2019	ND<20	FALSE
GWC-10	6/25/2020	ND<20	FALSE
GWC-10	12/16/2020	ND<20	FALSE
GWC-10	6/16/2021	ND<20	FALSE
GWC-10	12/16/2021	ND<20	FALSE
GWC-10	6/8/2022	ND<20	FALSE
GWC-10	12/15/2022	ND<20	FALSE
GWC-10	6/22/2023	ND<20	FALSE
GWC-10	12/12/2023	ND<20	FALSE

GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	ND<20	FALSE
GWC-10A	6/11/2019	ND<20	FALSE
GWC-10A	12/13/2019	ND<20	FALSE
GWC-10A	6/25/2020	ND<20	FALSE
GWC-10A	12/16/2020	ND<20	FALSE
GWC-10A	6/16/2021	ND<20	FALSE
GWC-10A	12/16/2021	ND<20	FALSE
GWC-10A	6/8/2022	ND<20	FALSE
GWC-10A	12/15/2022	ND<20	FALSE
GWC-10A	6/22/2023	ND<20	FALSE
GWC-10A	12/12/2023	ND<20	FALSE

GWC-11	6/20/2018	ND<20	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	ND<20	FALSE
GWC-11	12/13/2019	ND<20	FALSE
GWC-11	6/25/2020	ND<20	FALSE
GWC-11	12/16/2020	ND<20	FALSE
GWC-11	6/16/2021	ND<20	FALSE
GWC-11	12/14/2021	ND<20	FALSE
GWC-11	6/8/2022	ND<20	FALSE
GWC-11	12/13/2022	ND<20	FALSE
GWC-11	6/21/2023	ND<20	FALSE
GWC-11	12/12/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

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-12	6/16/2021	ND<20	FALSE
GWC-12	12/14/2021	ND<20	FALSE
GWC-12	6/8/2022	ND<20	FALSE
GWC-12	12/13/2022	ND<20	FALSE
GWC-12	6/21/2023	ND<20	FALSE
GWC-12	12/13/2023	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-12A	6/16/2021	ND<20	FALSE
GWC-12A	12/14/2021	ND<20	FALSE
GWC-12A	6/8/2022	ND<20	FALSE
GWC-12A	12/13/2022	ND<20	FALSE
GWC-12A	6/21/2023	ND<20	FALSE
GWC-12A	12/13/2023	ND<20	FALSE

GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-13	12/12/2019	ND<20	FALSE
GWC-13	6/24/2020	ND<20	FALSE
GWC-13	12/16/2020	ND<20	FALSE
GWC-13	6/16/2021	ND<20	FALSE
GWC-13	12/16/2021	ND<20	FALSE
GWC-13	6/9/2022	ND<20	FALSE
GWC-13	12/13/2022	ND<20	FALSE
GWC-13	6/21/2023	ND<20	FALSE
GWC-13	12/13/2023	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-15	6/16/2021	ND<20	FALSE
GWC-15	12/14/2021	ND<20	FALSE
GWC-15	6/9/2022	ND<20	FALSE
GWC-15	12/15/2022	ND<20	FALSE
GWC-15	6/22/2023	ND<20	FALSE
GWC-15	12/13/2023	ND<20	FALSE

GWC-17	6/20/2018	ND<20	FALSE
GWC-17	12/20/2018	ND<20	FALSE
GWC-17	6/13/2019	ND<20	FALSE
GWC-17	12/11/2019	ND<20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

GWC-17	6/24/2020	ND<20	FALSE
GWC-17	12/16/2020	ND<20	FALSE
GWC-17	6/15/2021	ND<20	FALSE
GWC-17	12/15/2021	ND<20	FALSE
GWC-17	6/10/2022	ND<40	TRUE
GWC-17	12/15/2022	ND<20	FALSE
GWC-17	6/21/2023	ND<20	FALSE

GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	ND<20	FALSE
GWC-18	6/12/2019	24	TRUE
GWC-18	12/10/2019	29.8	TRUE
GWC-18	6/24/2020	ND<20	FALSE
GWC-18	12/16/2020	ND<20	FALSE
GWC-18	6/15/2021	ND<20	FALSE
GWC-18	12/15/2021	33.7	TRUE
GWC-18	6/8/2022	ND<40	TRUE
GWC-18	12/15/2022	ND<20	FALSE
GWC-18	6/21/2023	ND<20	FALSE
GWC-18	12/13/2023	107	TRUE

GWC-19R	6/20/2018	ND<20	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-19R	6/15/2021	ND<20	FALSE
GWC-19R	12/15/2021	ND<20	FALSE
GWC-19R	6/7/2022	ND<40	TRUE
GWC-19R	12/15/2022	ND<20	FALSE
GWC-19R	6/21/2023	ND<20	FALSE
GWC-19R	12/14/2023	ND<20	FALSE

GWC-22	6/20/2018	ND<20	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-22	12/12/2019	ND<20	FALSE
GWC-22	6/24/2020	ND<20	FALSE
GWC-22	12/18/2020	ND<20	FALSE
GWC-22	6/15/2021	ND<20	FALSE
GWC-22	12/14/2021	ND<20	FALSE
GWC-22	6/7/2022	ND<20	FALSE
GWC-22	12/13/2022	ND<20	FALSE
GWC-22	6/21/2023	ND<20	FALSE
GWC-22	12/12/2023	ND<20	FALSE

GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-24	12/10/2019	ND<20	FALSE
GWC-24	6/25/2020	ND<20	FALSE
GWC-24	6/15/2021	ND<20	FALSE
GWC-24	6/8/2022	ND<40	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

GWC-24	12/15/2022	ND<20	FALSE
GWC-24	6/21/2023	ND<20	FALSE
GWC-24	12/13/2023	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
GWC-7	6/16/2021	ND<20	FALSE
GWC-7	12/14/2021	ND<20	FALSE
GWC-7	6/9/2022	ND<20	FALSE
GWC-7	12/13/2022	ND<20	FALSE
GWC-7	6/21/2023	ND<20	FALSE
GWC-7	12/12/2023	ND<20	FALSE

GWC-16A	6/21/2018	ND<20	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE
GWC-16A	6/23/2020	ND<20	FALSE
GWC-16A	12/17/2020	ND<20	FALSE
GWC-16A	6/16/2021	ND<20	FALSE
GWC-16A	12/16/2021	ND<20	FALSE
GWC-16A	6/10/2022	ND<40	TRUE
GWC-16A	12/15/2022	ND<20	FALSE
GWC-16A	12/13/2023	ND<20	FALSE

GWC-14	6/21/2018	ND<20	FALSE
GWC-14	6/12/2019	ND<20	FALSE
GWC-14	12/11/2019	ND<20	FALSE
GWC-14	6/25/2020	ND<20	FALSE
GWC-14	12/18/2020	ND<20	FALSE
GWC-14	6/16/2021	ND<20	FALSE
GWC-14	12/16/2021	ND<20	FALSE
GWC-14	6/10/2022	ND<20	FALSE
GWC-14	6/22/2023	ND<20	FALSE

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
GWC-14A	6/16/2021	22.2	TRUE
GWC-14A	12/15/2021	ND<20	FALSE
GWC-14A	6/10/2022	ND<20	FALSE
GWC-14A	12/14/2022	ND<20	FALSE
GWC-14A	6/21/2023	ND<20	FALSE
GWC-14A	12/13/2023	ND<20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

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-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	ND<20	FALSE
GWC-2	6/8/2022	ND<20	FALSE
GWC-2	12/13/2022	ND<20	FALSE
GWC-2	6/20/2023	ND<20	FALSE
GWC-2	12/12/2023	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-3	6/16/2021	ND<20	FALSE
GWC-3	12/16/2021	ND<20	FALSE
GWC-3	6/8/2022	ND<20	FALSE
GWC-3	6/20/2023	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-3A	6/15/2021	ND<20	FALSE
GWC-3A	12/16/2021	ND<20	FALSE
GWC-3A	6/8/2022	ND<20	FALSE
GWC-3A	12/13/2022	ND<20	FALSE
GWC-3A	6/20/2023	ND<20	FALSE
GWC-3A	12/13/2023	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-4	6/17/2021	ND<20	FALSE
GWC-4	12/15/2021	ND<20	FALSE
GWC-4	6/9/2022	ND<20	FALSE
GWC-4	12/13/2022	ND<20	FALSE
GWC-4	6/21/2023	ND<20	FALSE
GWC-4	12/13/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

GWC-4A	6/18/2021	ND<20	FALSE
GWC-4A	12/16/2021	ND<20	FALSE
GWC-4A	6/8/2022	ND<20	FALSE
GWC-4A	12/15/2022	ND<20	FALSE
GWC-4A	6/22/2023	ND<20	FALSE
GWC-4A	12/13/2023	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-5	6/16/2021	ND<20	FALSE
GWC-5	12/14/2021	ND<20	FALSE
GWC-5	6/9/2022	ND<20	FALSE
GWC-5	12/13/2022	ND<20	FALSE
GWC-5	6/21/2023	ND<20	FALSE
GWC-5	12/12/2023	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-6	6/16/2021	ND<20	FALSE
GWC-6	12/14/2021	ND<20	FALSE
GWC-6	6/9/2022	ND<20	FALSE
GWC-6	12/15/2022	ND<20	FALSE
GWC-6	6/21/2023	ND<20	FALSE
GWC-6	12/13/2023	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-8	6/17/2021	ND<20	FALSE
GWC-8	12/16/2021	ND<20	FALSE
GWC-8	6/10/2022	ND<20	FALSE
GWC-8	12/14/2022	ND<20	FALSE
GWC-8	6/22/2023	ND<20	FALSE
GWC-8	12/13/2023	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-8A	6/17/2021	ND<20	FALSE
GWC-8A	12/16/2021	ND<20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Nickel

GWC-8A	6/10/2022	ND<20	FALSE
GWC-8A	12/14/2022	ND<20	FALSE
GWC-8A	6/22/2023	ND<20	FALSE
GWC-8A	12/14/2023	ND<20	FALSE

GWC-9	6/21/2018	ND<20	FALSE
GWC-9	12/19/2018	ND<20	FALSE
GWC-9	6/13/2019	ND<20	FALSE
GWC-9	12/13/2019	ND<20	FALSE
GWC-9	6/25/2020	ND<20	FALSE
GWC-9	12/18/2020	ND<20	FALSE
GWC-9	6/16/2021	ND<20	FALSE
GWC-9	12/14/2021	ND<20	FALSE
GWC-9	6/8/2022	ND<20	FALSE
GWC-9	12/15/2022	ND<20	FALSE
GWC-9	6/21/2023	ND<20	FALSE
GWC-9	12/12/2023	ND<20	FALSE

GWC-14R	6/9/2022	ND<20	FALSE
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GWC-8R	6/9/2022	ND<20	FALSE
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Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.5484%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	ND<2	FALSE
<hr/>			
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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	ND<2	FALSE
<hr/>			
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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	ND<2	FALSE
<hr/>			
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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	ND<2	FALSE

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
GWC-15	6/16/2021	29	TRUE
GWC-15	12/14/2021	12	TRUE
GWC-15	6/9/2022	42	TRUE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	11	TRUE

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

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-17	6/9/2022	ND<2	FALSE
GWC-17	12/14/2022	ND<2	FALSE
GWC-17	6/20/2023	ND<2	FALSE

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-18	6/14/2021	3.1	TRUE
GWC-18	12/14/2021	3.4	TRUE
GWC-18	6/7/2022	5.2	TRUE
GWC-18	12/14/2022	3.8	TRUE
GWC-18	6/20/2023	2.9	TRUE
GWC-18	12/12/2023	2.3	TRUE

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
GWC-19R	12/15/2020	ND<2	FALSE
GWC-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	ND<2	FALSE
GWC-19R	6/6/2022	ND<2	FALSE
GWC-19R	12/14/2022	ND<2	FALSE
GWC-19R	6/20/2023	ND<2	FALSE
GWC-19R	12/13/2023	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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

GWC-14A	6/20/2018	ND<2	FALSE
GWC-14A	12/19/2018	ND<2	FALSE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	ND<2	FALSE
GWC-14A	6/24/2020	ND<2	FALSE
GWC-14A	12/15/2020	ND<2	FALSE
GWC-14A	6/15/2021	ND<2	FALSE
GWC-14A	12/14/2021	ND<2	FALSE
GWC-14A	6/9/2022	ND<2	FALSE
GWC-14A	12/13/2022	ND<2	FALSE
GWC-14A	6/20/2023	ND<2	FALSE
GWC-14A	12/12/2023	ND<2	FALSE

GWC-14R	6/20/2018	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-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

GWC-14R	6/9/2022	ND<2	FALSE
GWC-14R	12/13/2022	ND<2	FALSE
GWC-14R	6/21/2023	ND<2	FALSE
GWC-14R	12/12/2023	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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	ND<2	FALSE
GWC-8	6/21/2023	ND<2	FALSE
GWC-8	12/12/2023	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
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8A	6/9/2022	ND<2	FALSE
GWC-8A	12/13/2022	ND<2	FALSE
GWC-8A	6/21/2023	ND<2	FALSE
GWC-8A	12/13/2023	ND<2	FALSE

GWC-8R	6/20/2018	2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE
GWC-8R	6/16/2021	ND<2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-8R	6/9/2022	ND<2	FALSE
GWC-8R	12/13/2022	ND<2	FALSE
GWC-8R	6/21/2023	ND<2	FALSE
GWC-8R	12/12/2023	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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Tetrachloroethene

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-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	3.2	TRUE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.3077%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	ND<2	FALSE
<hr/>			
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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	ND<2	FALSE
<hr/>			
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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	ND<2	FALSE
<hr/>			
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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	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-15	6/16/2021	71	TRUE
GWC-15	12/14/2021	48	TRUE
GWC-15	6/9/2022	65	TRUE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	88	TRUE

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

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-17	6/9/2022	ND<2	FALSE
GWC-17	12/14/2022	ND<2	FALSE
GWC-17	6/20/2023	ND<2	FALSE

GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	2.1	TRUE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	2.6	TRUE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	2.4	TRUE
GWC-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	ND<2	FALSE
GWC-18	6/7/2022	ND<2	FALSE
GWC-18	12/14/2022	ND<2	FALSE
GWC-18	6/20/2023	ND<2	FALSE
GWC-18	12/12/2023	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-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	ND<2	FALSE
GWC-19R	6/6/2022	ND<2	FALSE
GWC-19R	12/14/2022	ND<2	FALSE
GWC-19R	6/20/2023	ND<2	FALSE
GWC-19R	12/13/2023	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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

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-14A	6/15/2021	ND<2	FALSE
GWC-14A	12/14/2021	ND<2	FALSE
GWC-14A	6/9/2022	ND<2	FALSE
GWC-14A	12/13/2022	3.3	TRUE
GWC-14A	6/20/2023	ND<2	FALSE
GWC-14A	12/12/2023	2.6	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-14R	6/16/2021	3.9	TRUE
GWC-14R	12/14/2021	2.8	TRUE

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

GWC-14R	6/9/2022	2.8	TRUE
GWC-14R	12/13/2022	3	TRUE
GWC-14R	6/21/2023	2.3	TRUE
GWC-14R	12/12/2023	2.6	TRUE

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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	ND<2	FALSE
GWC-8	6/21/2023	ND<2	FALSE
GWC-8	12/12/2023	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
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8A	6/9/2022	ND<2	FALSE
GWC-8A	12/13/2022	ND<2	FALSE
GWC-8A	6/21/2023	ND<2	FALSE
GWC-8A	12/13/2023	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-8R	6/16/2021	2.1	TRUE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-8R	6/9/2022	ND<2	FALSE
GWC-8R	12/13/2022	ND<2	FALSE
GWC-8R	6/21/2023	ND<2	FALSE
GWC-8R	12/12/2023	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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Trichloroethene

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-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	ND<2	FALSE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Vinyl chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.0223%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWA-3	6/6/2022	ND<2	FALSE
GWA-3	12/13/2022	ND<2	FALSE
GWA-3	6/20/2023	ND<2	FALSE
GWA-3	12/11/2023	ND<2	FALSE
<hr/>			
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-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23	6/6/2022	ND<2	FALSE
GWC-23	12/12/2022	ND<2	FALSE
GWC-23	6/21/2023	ND<2	FALSE
GWC-23	12/11/2023	ND<2	FALSE
<hr/>			
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-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	ND<2	FALSE
GWC-23A	6/6/2022	ND<2	FALSE
GWC-23A	12/12/2022	ND<2	FALSE
GWC-23A	6/21/2023	ND<2	FALSE
GWC-23A	12/11/2023	ND<2	FALSE
<hr/>			
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
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWA-1A	6/8/2022	ND<2	FALSE
GWA-1A	12/14/2022	ND<2	FALSE
GWA-1A	6/22/2023	ND<2	FALSE
GWA-1A	12/13/2023	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-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	ND<2	FALSE
GWC-10	6/7/2022	ND<2	FALSE
GWC-10	12/14/2022	ND<2	FALSE
GWC-10	6/21/2023	ND<2	FALSE
GWC-10	12/11/2023	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-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	ND<2	FALSE
GWC-10A	6/7/2022	ND<2	FALSE
GWC-10A	12/14/2022	ND<2	FALSE
GWC-10A	6/21/2023	ND<2	FALSE
GWC-10A	12/11/2023	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-11	6/15/2021	ND<2	FALSE
GWC-11	12/13/2021	ND<2	FALSE
GWC-11	6/7/2022	ND<2	FALSE
GWC-11	12/12/2022	ND<2	FALSE
GWC-11	6/20/2023	ND<2	FALSE
GWC-11	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12	6/7/2022	ND<2	FALSE
GWC-12	12/12/2022	ND<2	FALSE
GWC-12	6/20/2023	ND<2	FALSE
GWC-12	12/12/2023	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-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
GWC-12A	6/7/2022	ND<2	FALSE
GWC-12A	12/12/2022	ND<2	FALSE
GWC-12A	6/20/2023	ND<2	FALSE
GWC-12A	12/12/2023	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-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-13	6/8/2022	ND<2	FALSE
GWC-13	12/12/2022	ND<2	FALSE
GWC-13	6/20/2023	ND<2	FALSE
GWC-13	12/12/2023	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-15	6/16/2021	ND<2	FALSE
GWC-15	12/14/2021	ND<2	FALSE
GWC-15	6/9/2022	ND<2	FALSE
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE
GWC-15	12/13/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-17	6/9/2022	ND<2	FALSE
GWC-17	12/14/2022	ND<2	FALSE
GWC-17	6/20/2023	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-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	ND<2	FALSE
GWC-18	6/7/2022	ND<2	FALSE
GWC-18	12/14/2022	ND<2	FALSE
GWC-18	6/20/2023	ND<2	FALSE
GWC-18	12/12/2023	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-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	ND<2	FALSE
GWC-19R	6/6/2022	ND<2	FALSE
GWC-19R	12/14/2022	ND<2	FALSE
GWC-19R	6/20/2023	ND<2	FALSE
GWC-19R	12/13/2023	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-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	ND<2	FALSE
GWC-22	6/6/2022	ND<2	FALSE
GWC-22	12/12/2022	ND<2	FALSE
GWC-22	6/20/2023	ND<2	FALSE
GWC-22	12/11/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
GWC-24	6/7/2022	ND<2	FALSE
GWC-24	12/14/2022	ND<2	FALSE
GWC-24	6/20/2023	ND<2	FALSE
GWC-24	12/12/2023	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-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
GWC-7	6/8/2022	ND<2	FALSE
GWC-7	12/12/2022	ND<2	FALSE
GWC-7	6/20/2023	ND<2	FALSE
GWC-7	12/11/2023	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-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14	6/9/2022	ND<2	FALSE
GWC-14	12/13/2022	ND<2	FALSE
GWC-14	6/21/2023	ND<2	FALSE
GWC-14	12/12/2023	ND<2	FALSE

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
GWC-14A	6/15/2021	12	TRUE
GWC-14A	12/14/2021	19	TRUE
GWC-14A	6/9/2022	19	TRUE
GWC-14A	12/13/2022	14	TRUE
GWC-14A	6/20/2023	16	TRUE
GWC-14A	12/12/2023	16	TRUE

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-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

GWC-14R	6/9/2022	ND<2	FALSE
GWC-14R	12/13/2022	ND<2	FALSE
GWC-14R	6/21/2023	ND<2	FALSE
GWC-14R	12/12/2023	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-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	ND<2	FALSE
GWC-2	6/7/2022	ND<2	FALSE
GWC-2	12/12/2022	ND<2	FALSE
GWC-2	6/19/2023	ND<2	FALSE
GWC-2	12/11/2023	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-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	ND<2	FALSE
GWC-3A	6/7/2022	ND<2	FALSE
GWC-3A	12/12/2022	ND<2	FALSE
GWC-3A	6/19/2023	ND<2	FALSE
GWC-3A	12/12/2023	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-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	ND<2	FALSE
GWC-4	6/8/2022	ND<2	FALSE
GWC-4	12/12/2022	ND<2	FALSE
GWC-4	6/20/2023	ND<2	FALSE
GWC-4	12/12/2023	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-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE
GWC-4A	6/8/2022	ND<2	FALSE
GWC-4A	12/14/2022	ND<2	FALSE
GWC-4A	6/21/2023	ND<2	FALSE
GWC-4A	12/13/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
GWC-8	6/9/2022	ND<2	FALSE
GWC-8	12/13/2022	ND<2	FALSE
GWC-8	6/21/2023	ND<2	FALSE
GWC-8	12/12/2023	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
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8A	6/9/2022	ND<2	FALSE
GWC-8A	12/13/2022	ND<2	FALSE
GWC-8A	6/21/2023	ND<2	FALSE
GWC-8A	12/13/2023	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-8R	6/16/2021	ND<2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-8R	6/9/2022	ND<2	FALSE
GWC-8R	12/13/2022	ND<2	FALSE
GWC-8R	6/21/2023	ND<2	FALSE
GWC-8R	12/12/2023	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
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
GWC-9	6/7/2022	ND<2	FALSE
GWC-9	12/14/2022	ND<2	FALSE
GWC-9	6/20/2023	ND<2	FALSE
GWC-9	12/11/2023	ND<2	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	ND<2	FALSE
GWC-16A	6/9/2022	ND<2	FALSE
GWC-16A	12/14/2022	ND<2	FALSE
GWC-16A	6/20/2023	ND<2	FALSE
GWC-16A	12/12/2023	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-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3	6/7/2022	ND<2	FALSE
GWC-3	12/12/2022	ND<2	FALSE
GWC-3	6/19/2023	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-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	ND<2	FALSE
GWC-5	6/8/2022	ND<2	FALSE
GWC-5	12/12/2022	ND<2	FALSE
GWC-5	6/20/2023	ND<2	FALSE
GWC-5	12/11/2023	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-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	ND<2	FALSE
GWC-6	6/8/2022	ND<2	FALSE
GWC-6	12/14/2022	ND<2	FALSE
GWC-6	6/20/2023	ND<2	FALSE
GWC-6	12/12/2023	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 74.2627%

Background measurements (n) = 25

Maximum Background Concentration = 48

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
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
GWA-3	6/15/2021	ND<20	FALSE
GWA-3	12/15/2021	ND<20	FALSE
GWA-3	6/7/2022	ND<20	FALSE
GWA-3	12/14/2022	ND<20	FALSE
GWA-3	6/21/2023	ND<20	FALSE
GWA-3	12/12/2023	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-23	6/15/2021	ND<20	FALSE
GWC-23	12/14/2021	ND<20	FALSE
GWC-23	6/7/2022	ND<20	FALSE
GWC-23	12/13/2022	ND<20	FALSE
GWC-23	6/22/2023	ND<20	FALSE
GWC-23	12/12/2023	34	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-23A	6/15/2021	ND<20	FALSE
GWC-23A	12/14/2021	ND<20	FALSE
GWC-23A	6/7/2022	ND<20	FALSE
GWC-23A	12/13/2022	ND<20	FALSE
GWC-23A	6/22/2023	ND<20	FALSE
GWC-23A	12/12/2023	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
GWA-1A	6/17/2021	ND<20	FALSE
GWA-1A	12/16/2021	ND<20	FALSE
GWA-1A	6/8/2022	ND<20	FALSE
GWA-1A	12/14/2022	ND<20	FALSE
GWA-1A	6/22/2023	ND<20	FALSE
GWA-1A	12/13/2023	ND<20	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-10	6/16/2021	ND<20	FALSE
GWC-10	12/16/2021	ND<20	FALSE
GWC-10	6/8/2022	ND<20	FALSE
GWC-10	12/15/2022	ND<20	FALSE
GWC-10	6/22/2023	ND<20	FALSE
GWC-10	12/12/2023	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-10A	6/16/2021	ND<20	FALSE
GWC-10A	12/16/2021	ND<20	FALSE
GWC-10A	6/8/2022	ND<20	FALSE
GWC-10A	12/15/2022	21.6	FALSE
GWC-10A	6/22/2023	21.3	FALSE
GWC-10A	12/12/2023	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-11	6/16/2021	ND<20	FALSE
GWC-11	12/14/2021	ND<20	FALSE
GWC-11	6/8/2022	ND<20	FALSE
GWC-11	12/13/2022	58.6	TRUE
GWC-11	6/21/2023	ND<20	FALSE
GWC-11	12/12/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

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-12	6/16/2021	ND<20	FALSE
GWC-12	12/14/2021	ND<20	FALSE
GWC-12	6/8/2022	ND<20	FALSE
GWC-12	12/13/2022	ND<20	FALSE
GWC-12	6/21/2023	ND<20	FALSE
GWC-12	12/13/2023	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-12A	6/16/2021	ND<20	FALSE
GWC-12A	12/14/2021	ND<20	FALSE
GWC-12A	6/8/2022	ND<20	FALSE
GWC-12A	12/13/2022	ND<20	FALSE
GWC-12A	6/21/2023	ND<20	FALSE
GWC-12A	12/13/2023	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-13	6/16/2021	ND<20	FALSE
GWC-13	12/16/2021	ND<20	FALSE
GWC-13	6/9/2022	ND<20	FALSE
GWC-13	12/13/2022	ND<20	FALSE
GWC-13	6/21/2023	ND<20	FALSE
GWC-13	12/13/2023	22.3	FALSE

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-15	6/16/2021	ND<20	FALSE
GWC-15	12/14/2021	ND<20	FALSE
GWC-15	6/9/2022	24.9	FALSE
GWC-15	12/15/2022	ND<20	FALSE
GWC-15	6/22/2023	ND<20	FALSE
GWC-15	12/13/2023	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

GWC-17	6/24/2020	ND<20	FALSE
GWC-17	12/16/2020	ND<20	FALSE
GWC-17	6/15/2021	ND<20	FALSE
GWC-17	12/15/2021	ND<20	FALSE
GWC-17	6/10/2022	ND<20	FALSE
GWC-17	12/15/2022	ND<20	FALSE
GWC-17	6/21/2023	ND<20	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-18	6/15/2021	ND<20	FALSE
GWC-18	12/15/2021	ND<20	FALSE
GWC-18	6/8/2022	ND<20	FALSE
GWC-18	12/15/2022	ND<20	FALSE
GWC-18	6/21/2023	ND<20	FALSE
GWC-18	12/13/2023	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-19R	6/15/2021	ND<20	FALSE
GWC-19R	12/15/2021	ND<20	FALSE
GWC-19R	6/7/2022	ND<20	FALSE
GWC-19R	12/15/2022	ND<20	FALSE
GWC-19R	6/21/2023	ND<20	FALSE
GWC-19R	12/14/2023	33.5	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-22	6/15/2021	ND<20	FALSE
GWC-22	12/14/2021	ND<20	FALSE
GWC-22	6/7/2022	ND<20	FALSE
GWC-22	12/13/2022	ND<20	FALSE
GWC-22	6/21/2023	ND<20	FALSE
GWC-22	12/12/2023	ND<20	FALSE

GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-24	12/10/2019	24	FALSE
GWC-24	6/25/2020	ND<20	FALSE
GWC-24	6/15/2021	ND<20	FALSE
GWC-24	6/8/2022	ND<20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

GWC-24	12/15/2022	ND<20	FALSE
GWC-24	6/21/2023	ND<20	FALSE
GWC-24	12/13/2023	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
GWC-7	6/16/2021	ND<20	FALSE
GWC-7	12/14/2021	ND<20	FALSE
GWC-7	6/9/2022	24	FALSE
GWC-7	12/13/2022	35.3	FALSE
GWC-7	6/21/2023	ND<20	FALSE
GWC-7	12/12/2023	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-16A	6/16/2021	ND<20	FALSE
GWC-16A	12/16/2021	ND<20	FALSE
GWC-16A	6/10/2022	34.1	FALSE
GWC-16A	12/15/2022	ND<20	FALSE
GWC-16A	12/13/2023	ND<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-14	6/16/2021	ND<20	FALSE
GWC-14	12/16/2021	ND<20	FALSE
GWC-14	6/10/2022	22.1	FALSE
GWC-14	6/22/2023	21.9	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-14A	6/16/2021	ND<20	FALSE
GWC-14A	12/15/2021	26	FALSE
GWC-14A	6/10/2022	ND<20	FALSE
GWC-14A	12/14/2022	ND<20	FALSE
GWC-14A	6/21/2023	ND<20	FALSE
GWC-14A	12/13/2023	ND<20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

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-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	ND<20	FALSE
GWC-2	6/8/2022	ND<20	FALSE
GWC-2	12/13/2022	ND<20	FALSE
GWC-2	6/20/2023	ND<20	FALSE
GWC-2	12/12/2023	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-3	6/16/2021	ND<20	FALSE
GWC-3	12/16/2021	ND<20	FALSE
GWC-3	6/8/2022	25.1	FALSE
GWC-3	6/20/2023	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-3A	6/15/2021	20.6	FALSE
GWC-3A	12/16/2021	ND<20	FALSE
GWC-3A	6/8/2022	ND<20	FALSE
GWC-3A	12/13/2022	ND<20	FALSE
GWC-3A	6/20/2023	ND<20	FALSE
GWC-3A	12/13/2023	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-4	6/17/2021	43.2	FALSE
GWC-4	12/15/2021	ND<20	FALSE
GWC-4	6/9/2022	39.4	FALSE
GWC-4	12/13/2022	ND<20	FALSE
GWC-4	6/21/2023	ND<20	FALSE
GWC-4	12/13/2023	ND<20	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

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

GWC-4A	6/18/2021	ND<20	FALSE
GWC-4A	12/16/2021	ND<20	FALSE
GWC-4A	6/8/2022	24.5	FALSE
GWC-4A	12/15/2022	ND<20	FALSE
GWC-4A	6/22/2023	57	TRUE
GWC-4A	12/13/2023	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-5	6/16/2021	ND<20	FALSE
GWC-5	12/14/2021	ND<20	FALSE
GWC-5	6/9/2022	27.2	FALSE
GWC-5	12/13/2022	ND<20	FALSE
GWC-5	6/21/2023	ND<20	FALSE
GWC-5	12/12/2023	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-6	6/16/2021	79	TRUE
GWC-6	12/14/2021	ND<20	FALSE
GWC-6	6/9/2022	ND<20	FALSE
GWC-6	12/15/2022	ND<20	FALSE
GWC-6	6/21/2023	ND<20	FALSE
GWC-6	12/13/2023	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-8	6/17/2021	ND<20	FALSE
GWC-8	12/16/2021	ND<20	FALSE
GWC-8	6/10/2022	ND<20	FALSE
GWC-8	12/14/2022	ND<20	FALSE
GWC-8	6/22/2023	ND<20	FALSE
GWC-8	12/13/2023	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-8A	6/17/2021	ND<20	FALSE
GWC-8A	12/16/2021	ND<20	FALSE

Forsyth County- Hightower Road Landfill - Phase II-IV

Zinc

GWC-8A	6/10/2022	ND<20	FALSE
GWC-8A	12/14/2022	ND<20	FALSE
GWC-8A	6/22/2023	ND<20	FALSE
GWC-8A	12/14/2023	ND<20	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-9	6/16/2021	41.8	FALSE
GWC-9	12/14/2021	49.9	TRUE
GWC-9	6/8/2022	68.7	TRUE
GWC-9	12/15/2022	41.6	FALSE
GWC-9	6/21/2023	40.4	FALSE
GWC-9	12/12/2023	48	FALSE

GWC-14R	6/9/2022	ND<20	FALSE
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GWC-8R	6/9/2022	24.6	FALSE
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