



## Forsyth County Recycling & Solid Waste Department

**SAMUEL B. BUCKLES**, Environmental Scientist Manager

September 26, 2023

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: First 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](mailto: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](mailto: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

### FIRST 2023 SEMI-ANNUAL GROUNDWATER & SURFACE WATER MONITORING REPORT

*ACC*

ATLANTIC COAST  
CONSULTING, INC.

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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 June 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 (KMnO<sub>4</sub>) 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) 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-1A, PH1-GWA-3A, PH1-GWA-4, PH1-GWC-2, PH1-GWC-3, PH1-GWC-3A, GWA-1, GWA-1A, GWC-8R, GWC-14R, AMW-1, AMW-12, and AMW-12R and a peristaltic pump was used to purge. 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), and **Table 4** (Metals).

### 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. 51028-51029 (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 first 2023 semi-annual monitoring event were collected June 19-23, 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; therefore, the surrogate well was sampled. AMW series well AMW-1 was sampled as the surrogate well for GWC-15. Monitoring well GWC-16A purged dry after sampling for VOCs and did not recharge; therefore GWC-16A was not sampled for metals analysis.

### 4.1 Groundwater

An evaluation of the June 2023 semi-annual groundwater sampling results indicates that one or more VOCs were detected in 13 groundwater monitoring well samples and three AMW series well samples as summarized on **Table 3**. The concentrations of three organic compounds in one or more assessment monitoring well samples were above the respective GWPS: 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-dichloroethene (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 (8.3 µg/L) and TCE in the samples from PH1-GWC-3 and PH1-GWC-3A (8.0 µg/L and 5.5 µg/L, respectively) were above the GWPS (5 µg/L and 5 µg/L, respectively). Neither PCE nor TCE were detected in the sample from SWC-6 that is located downgradient of PH1-GWC-3 and PH1-GWC-3A. Report *Section 4.4* discusses delineation sampling conducted due to the PH1-GWC-3 and PH1-GWC-3A detections.
- The concentration of vinyl chloride in the sample from GWC-14A (16 µg/L) was above the GWPS (2 µg/L). This compound was not detected in GWC-13 (downgradient of GWC-14A), GWC-14 (shallower), or in GWC-14R (deeper). This vinyl chloride detection in GWC-14A is horizontally and vertically delineated.

The VOCs detected during the first 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 four during the first 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 four during the first 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 June 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 155 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 COD, 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 added<sup>1</sup> 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.

There was a detection of cis-1,2-DCE in the sample from SWC-6 at a concentration of 4.5 µg/L. This SWC-6 concentration of cis-1,2-DCE is well below the MCL of 70 µg/L (there is no instream water quality standard for cis-1,2-DCE). There have been six previous detections of cis-1,2-DCE in samples from SWC-6.

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<sup>1</sup> 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.

## 5.0 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.

### 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 three 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 or cobalt. The current concentrations of barium and cobalt are typical of unimpacted groundwater in the region, and concentrations are well below the respective GWPS. It is recommended that these five monitoring wells remain in detection monitoring (**Table A**).

## 6.0 SUMMARY AND RECOMMENDATIONS

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

- Groundwater flows, in a sub-radial pattern, towards the northeast and northwest, at a calculated rate of approximately 155 feet per year.
- VOCs at concentrations above respective GWPS in network wells are limited to those in assessment monitoring status, except for GWC-8. 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 concentrations in samples from assessment monitoring wells. The only SSIs for wells currently in detection monitoring were for low-level concentrations of barium (PH1-GWB-1, PH1-GWC-1, GWC-1, and GWC-9), and cobalt (GWC-14), all below respective GWPS; these detections in groundwater are attributed to natural occurrence due to the presence in regional soils.
- SWC-6 had a low-level detection of cis-1,2-DCE at a concentration well below the MCL. There is no established instream water quality standard for cis-1,2-DCE. The concentration of cis-1,2-DCE in the sample from SWC-6 is significantly less than the concentrations in PH1-GWC-3 and PH1-GWC-3A. Four additional surface water points were monitored for VOCs (SWC-1, SWC-4, SWC-4A, and SWC-4B), and no VOCs were detected in these samples. Location SWC-6 is monitored for VOCs to delineate concentrations of VOCs in samples from monitoring wells PH1-GWC-3 and PH1-GWC-3A. VOC detections in the samples from monitoring wells PH1-GWC-3 and PH1-GWC-3A are considered delineated within the site boundary.
- 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 4 during the first 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 4 during the first 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 December 2023.

## TABLES

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

Location	Well Status	1st Semi-Annual Event	2nd Semi-Annual Event
<b>Phase I Groundwater Locations</b>			
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
<b>Phase II, III, and IV Groundwater Locations</b>			
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
<b>Phase II, III, and IV Groundwater Locations (Continued)</b>			
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
<b>Surface Water Locations</b>			
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**  
**June 2023 Sampling Event**

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)
<b>Phase I Groundwater Locations</b>					
PH1-GWA-1	Bailer	5.54	134	23.0	13.5
PH1-GWA-1A	Sub. Pump	6.54	64	20.0	12.0
PH1-GWA-2	Bailer	5.60	78	19.6	4.5
PH1-GWA-3A	Sub. Pump	5.28	51	19.2	1.6
PH1-GWA-4	Bladder	5.34	19	17.4	0.8
PH1-GWB-1	Bailer	5.23	34	20.7	19.4
PH1-GWB-2	Bailer	5.57	69	19.0	9.6
PH1-GWC-1	Bailer	6.26	147	19.3	2.5
PH1-GWC-2	Sub. Pump	6.64	156	19.9	41.2
PH1-GWC-3	Peri. Pump	5.09	165	16.7	3.0
PH1-GWC-3A	Bladder	6.55	172	16.2	0.3
PH1-GWC-4	Bailer	5.35	21	20.0	6.1
GWC-1	Bailer	5.69	85	21.4	5.9
AMW-9	Bailer	5.49	32	18.4	2.9
<b>Phase II, III, and IV Groundwater Locations</b>					
GWA-1	Bladder	5.12	42	17.4	10.1
GWA-1A	Sub. Pump	6.16	130	17.5	0.2
GWA-2	Bailer	5.38	28	23.0	3.0
GWA-3	Bailer	5.49	36	19.9	6.1
GWC-2	Bailer	5.78	21	19.9	7.5
GWC-3	Bailer	5.21	18	19.6	10.9
GWC-3A	Bailer	5.38	33	19.7	7.0
GWC-4	Bailer	5.66	28	19.4	6.6
GWC-4A	Bailer	6.40	93	18.7	105
GWC-5	Bailer	5.63	19	18.2	4.9
GWC-6	Bailer	6.01	54	18.0	4.1
GWC-7	Bailer	5.48	58	18.3	3.8
GWC-8	Bailer	5.28	60	19.1	5.5
GWC-8A	Bailer	5.54	177	18.7	11.4
GWC-8R	Sub. Pump	6.10	304	19.4	10.6
GWC-9	Bailer	5.04	85	18.2	24.6
GWC-10	Bailer	4.84	21	17.8	14.6
GWC-10A	Bailer	4.89	56	17.5	9.3
GWC-11	Bailer	5.25	24	18.8	11.0
GWC-12	Bailer	5.24	19	19.5	6.2
GWC-12A	Bailer	5.19	19	18.5	3.7
GWC-13	Bailer	5.52	28	19.9	11.7
GWC-14	Bailer	5.00	35	18.8	33.2
GWC-14A	Bailer	5.89	347	20.7	3.5
GWC-14R	Sub. Pump	5.86	334	19.4	0.3

**Notes:** Groundwater samples collected June 19-23, 2023.

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

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

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

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)
<b>Phase II, III, and IV Groundwater Locations (Continued)</b>					
GWC-15	Obstruction in well - Refer to Surrogate AMW-1				
GWC-16A	Bailer	6.14	1080	21.1	34.9
GWC-17	Bailer	5.14	38	18.2	3.8
GWC-18	Bailer	5.55	259	19.7	8.1
GWC-19R	Bailer	5.62	72	18.1	9.0
GWC-22	Bailer	5.74	29	17.2	3.0
GWC-23	Bailer	6.27	42	18.9	3.6
GWC-23A	Bailer	5.79	25	17.6	1.7
GWC-24	Bailer	5.74	59	19.1	9.7
AMW-1	Bladder	6.30	169	18.2	3.3
AMW-4	Bailer	5.57	99	17.9	80.2
AMW-5	Bailer	6.01	73	17.2	330
AMW-12	Peri. Pump	5.44	37	16.3	1.5
AMW-12R	Bladder	5.85	38	15.8	0.3
AMW-13	Bailer	5.30	31	18.4	6.7
AMW-14	Bailer	6.15	77	17.2	61.7

**Notes:** Groundwater samples collected June 19-23, 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**  
**June 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)
<b>Phase I Groundwater Locations</b>				
PH1-GWA-1	48.66	1176.37	37.25	1139.12
PH1-GWA-1A	108.00	1176.35	38.52	1137.83
PH1-GWA-2	53.60	1183.40	35.55	1147.85
PH1-GWA-3A	250.00	1187.16	35.46	1151.70
PH1-GWA-4	57.00	1191.14	34.93	1156.21
PH1-GWB-1	53.80	1179.10	41.54	1137.56
PH1-GWB-2	42.22	1155.04	24.30	1130.74
PH1-GWC-1	23.79	1074.66	9.70	1064.96
PH1-GWC-2	127.61	1103.93	22.66	1081.27
PH1-GWC-3	23.42	1096.96	11.72	1085.24
PH1-GWC-3A	55.42	1096.28	10.86	1085.42
PH1-GWC-4	33.71	1124.26	28.52	1095.74
GWC-1	38.80	1102.25	28.19	1074.06
AMW-8	50.40	1186.23	38.50	1147.73
AMW-9	41.69	1162.64	30.59	1132.05
AMW-10	56.81	1180.73	42.61	1138.12
<b>Phase II, III, and IV Groundwater Locations</b>				
GWA-1	62.85	1187.70	55.01	1132.69
GWA-1A	141.00	1187.49	55.93	1131.56
GWA-2	52.18	1137.30	38.77	1098.53
GWA-3	48.86	1154.53	38.74	1115.79
GWC-2	55.61	1103.64	45.02	1058.62
GWC-3	39.71	1092.39	33.52	1058.87
GWC-3A	68.95	1094.67	31.73	1062.94
GWC-4	49.81	1132.82	43.55	1089.27
GWC-4A	89.23	1132.39	40.36	1092.03
GWC-5	49.91	1084.55	45.63	1038.92
GWC-6	34.52	1064.01	25.22	1038.79
GWC-7	54.21	1093.44	40.63	1052.81
GWC-8	27.53	1095.63	20.45	1075.18
GWC-8A	46.71	1095.44	19.50	1075.94
GWC-8R	94.67	1098.40	22.29	1076.11
GWC-9	60.50	1093.58	45.49	1048.09
GWC-10	37.51	1068.56	21.72	1046.84

**Notes:** Depths to water measured June 19, 2023.

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



**Table 2 (Continued)**  
**Summary of Groundwater Elevation Data**  
**Forsyth County - Hightower Rd MSWLF**  
**June 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)
<b>Phase II, III, and IV Groundwater Locations (Continued)</b>				
GWC-10A	54.30	1066.45	23.71	1042.74
GWC-11	46.80	1054.08	32.48	1021.60
GWC-12	40.06	1038.06	28.54	1009.52
GWC-12A	49.44	1038.09	29.70	1008.39
GWC-13	44.95	1090.82	30.75	1060.07
GWC-14	28.37	1089.49	23.10	1066.39
GWC-14A	64.75	1089.32	22.35	1066.97
GWC-14R	93.61	1078.60	13.25	1065.35
GWC-15	62.84	1125.68	56.10	1069.58
GWC-16A	51.05	1136.49	49.80	1086.69
GWC-17	21.59	1107.78	14.08	1093.70
GWC-18	52.70	1094.87	40.67	1054.20
GWC-19R	39.87	1105.79	27.66	1078.13
GWC-22	35.05	1079.01	21.96	1057.05
GWC-23	32.22	1079.06	17.26	1061.80
GWC-23A	61.67	1079.10	14.91	1064.19
GWC-24	44.09	1102.32	34.14	1068.18
AMW-1	180.70	1130.04	60.01	1070.03
AMW-2	150.00	1101.96	39.57	1062.39
AMW-3	31.30	1041.09	9.99	1031.10
AMW-4	18.80	1040.09	4.47	1035.62
AMW-5	23.06	1049.32	8.47	1040.85
AMW-11R	58.10	1053.63	8.85	1044.78
AMW-12	19.56	1056.85	7.75	1049.10
AMW-12R	46.43	1056.34	10.01	1046.33
AMW-13	36.18	1093.09	29.74	1063.35
AMW-14	21.70	1052.73	9.96	1042.77

**Notes:** Depths to water measured June 19, 2023.

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

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

Monitoring Well ID	1,1-DCA (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*	5	110*	4.6*	70	5	5	2
<b>Phase I Groundwater Locations</b>								
PH1-GWA-1	--	--	--	--	3.7	--	--	--
PH1-GWA-1A	--	--	--	--	--	--	--	--
PH1-GWA-2	--	--	--	--	16	--	--	--
PH1-GWA-3A	--	--	--	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--	--	--	--
PH1-GWB-1	--	--	--	--	--	--	--	--
PH1-GWB-2	--	--	--	--	--	--	--	--
PH1-GWC-1	--	--	--	--	--	--	--	--
PH1-GWC-2	--	--	--	--	7.0	2.9	--	--
PH1-GWC-3	3.4	--	--	--	28	<b>8.3</b>	<b>8.0</b>	--
PH1-GWC-3A	--	--	--	--	13	2.0	<b>5.5</b>	--
PH1-GWC-4	--	--	--	--	--	--	--	--
GWC-1	--	--	--	--	--	--	--	--
AMW-9	--	--	--	--	--	--	--	--
<b>Phase II, III, and IV Groundwater Locations</b>								
GWA-1	--	--	--	--	--	--	--	--
GWA-1A	--	--	--	--	--	--	--	--
GWA-2	--	--	--	--	--	--	--	--
GWA-3	--	--	--	--	--	--	--	--
GWC-2	--	--	--	--	--	--	--	--
GWC-3	--	--	--	--	--	--	--	--
GWC-3A	--	--	--	--	--	--	--	--
GWC-4	--	--	--	--	--	--	--	--
GWC-4A	--	--	--	--	--	--	--	--
GWC-5	--	--	--	--	--	--	--	--
GWC-6	--	--	--	--	--	--	--	--
GWC-7	--	--	--	--	--	--	--	--
GWC-8	--	--	--	--	2.7	--	--	--
GWC-8A	--	--	--	--	23	--	--	--
GWC-8R	9.8	--	--	--	28	--	--	--

**Notes:** Groundwater samples collected June 19th-23, 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; 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**  
**June 2023 Sampling Event**

Monitoring Well ID	1,1-DCA (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*	5	110*	4.6*	70	5	5	2
<b>Phase II, III, and IV Groundwater Locations (Continued)</b>								
GWC-9	--	--	--	--	--	--	--	--
GWC-10	--	--	--	--	--	--	--	--
GWC-10A	--	--	--	--	--	--	--	--
GWC-11	--	--	--	--	--	--	--	--
GWC-12	--	--	--	--	--	--	--	--
GWC-12A	--	--	--	--	--	--	--	--
GWC-13	--	--	--	--	--	--	--	--
GWC-14	--	--	--	--	--	--	--	--
GWC-14A	12	2.8	12	2.4	54	--	--	<b>16</b>
GWC-14R	11	--	--	--	20	--	2.3	--
GWC-15	Refer to Surrogate AMW-1							
GWC-16A	2.0	--	--	--	9.0	3.2	--	--
GWC-17	--	--	--	--	--	--	--	--
GWC-18	--	--	--	--	11	2.9	--	--
GWC-19R	--	--	--	--	3.0	--	--	--
GWC-22	--	--	--	--	--	--	--	--
GWC-23	--	--	--	--	--	--	--	--
GWC-23A	--	--	--	--	--	--	--	--
GWC-24	--	--	--	--	--	--	--	--
AMW-1	--	--	--	--	--	--	--	--
AMW-4	--	--	--	--	22	3.2	--	--
AMW-5	--	--	--	--	--	--	--	--
AMW-12	--	--	--	--	--	2.0	--	--
AMW-12R	--	--	--	--	--	3.7	--	--
AMW-13	--	--	--	--	--	--	--	--
AMW-14	--	--	--	--	--	--	--	--

**Notes:** Groundwater samples collected June 19th-23, 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; 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**  
**June 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**
<b>Phase I Groundwater Locations</b>					
PH1-GWA-1	0.0246	--	0.0672	--	0.0316
PH1-GWA-1A	0.0254	--	--	--	--
PH1-GWA-2	0.0485	--	--	--	--
PH1-GWA-3A	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--
PH1-GWB-1	0.0451	--	--	--	--
PH1-GWB-2	0.0202	--	--	--	0.0290
PH1-GWC-1	0.0399	--	--	--	--
PH1-GWC-2	0.0485	0.0370	--	0.0253	0.0373
PH1-GWC-3	0.0276	--	--	--	--
PH1-GWC-3A	0.0269	--	--	--	--
PH1-GWC-4	0.0226	--	--	--	--
GWC-1	0.0951	--	--	--	--
AMW-9	--	--	--	--	--
<b>Phase II, III, and IV Groundwater Locations</b>					
GWA-1	0.0230	--	--	--	0.0205
GWA-1A	0.0338	--	--	--	--
GWA-2	0.0226	--	--	--	--
GWA-3	--	--	--	--	--
GWC-2	--	--	--	--	--
GWC-3	--	--	--	--	--
GWC-3A	0.0363	--	--	--	--
GWC-4	--	--	--	--	--
GWC-4A	0.0546	--	--	--	0.0570
GWC-5	--	--	--	--	--
GWC-6	--	--	--	--	--
GWC-7	0.0348	--	--	--	--
GWC-8	0.0300	--	--	--	--
GWC-8A	0.0369	--	--	--	--

**Notes:** Groundwater samples collected June 19-23, 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**  
**June 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**
<b>Phase II, III, and IV Groundwater Locations</b>					
GWC-9	0.0696	--	--	--	0.0404
GWC-10	--	--	--	--	--
GWC-10A	0.0306	--	--	--	0.0213
GWC-11	--	--	--	--	--
GWC-12	--	--	--	--	--
GWC-12A	--	--	--	--	--
GWC-13	--	--	--	--	--
GWC-14	0.0264	--	0.0550	--	0.0219
GWC-14A	0.161	--	0.226	--	--
GWC-15	Refer to Surrogate AMW-1				
GWC-16A	Purged Dry; Insufficient Recharge				
GWC-17	0.0276	--	--	--	--
GWC-18	0.219	--	--	--	--
GWC-19R	0.0974	--	--	--	--
GWC-22	0.0244	--	--	--	--
GWC-23	--	--	--	--	--
GWC-23A	--	--	--	--	--
GWC-24	--	--	--	--	--
AMW-1	0.0244	--	--	--	--
AMW-13	--	--	--	--	--

**Notes:** Groundwater samples collected June 19-23, 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 5**  
**Groundwater Flow Rate Calculation**  
**Forsyth County - Hightower Road MSWLF**  
**June 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<sub>e</sub> = effective porosity

Values Used in Calculation

k =	1.0	ft/day	(reference 1)
i <sup>1</sup> =	0.070	ft/ft	PH1-GWA-2 to GWC-1
i <sup>2</sup> =	0.076	ft/ft	GWA-3 to GWC-2
i <sup>3</sup> =	0.091	ft/ft	GWA-2 to GWC-23
i <sup>4</sup> =	0.103	ft/ft	GWC-8 to AMW-11R
i <sup>AVE</sup> =	0.085	ft/ft	Average
n <sub>e</sub> =	0.20	unitless	(reference 1)

Calculation

$$v = \frac{(1.0 \text{ ft/day}) (0.085 \text{ ft/ft})}{20\%}$$

$$v = 0.42 \text{ ft/day}$$

$$v = 155 \text{ ft/year}$$

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**  
**June 2023 Sampling Event**

Location ID	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Barium (mg/L)	cis-1,2-DCE (µg/L)
SWA-1	3.46	--	1.79	0.0308	NS
SWA-2	1.86	--	1.72	--	NS
SWC-1	3.33	--	5.21	--	--
SWC-2	10.1	--	5.45	0.0380	NS
SWC-3	2.63	10.3	2.24	--	NS
SWC-4	2.26	--	2.37	--	--
SWC-4A	NS	NS	NS	NS	--
SWC-4B	NS	NS	NS	NS	--
SWC-5	9.61	--	17.9	0.0432	NS
SWC-6	5.14	--	14.4	0.0307	4.5

Location ID	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)
SWA-1	6.31	51	18.8	4.3
SWA-2	6.67	44	19.4	23
SWC-1	7.08	105	20.1	12.7
SWC-2	5.99	85	18.5	0.8
SWC-3	6.61	51	19.1	13.6
SWC-4	6.87	49	19.4	10.6
SWC-4A	7.13	42	19.6	2.9
SWC-4B	8.07	68	23.8	512
SWC-5	7.46	255	21.1	1.3
SWC-6	6.90	154	21.5	0.4
SWC-7	Point Dry			
SWC-8	Point Dry			
SWC-9	Point Dry			

**Notes:** Surface water samples collected June 19-23, 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

µg/L = micrograms per liter

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

µS/cm = microSiemens/centimeter

NTU = Nephelometric Turbidity Units

NS = not sampled/not required

S.U. = Standard Units

**Table 7  
Summary of Statistically Significant Increases  
Forsyth County - Hightower Road MSWLF  
June 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
<b>Phase I Downgradient Groundwater Network Locations</b>											
PH1-GWA-1					X						X
PH1-GWA-1A											
PH1-GWA-2					X				X		
PH1-GWB-1									X		
PH1-GWB-2											
PH1-GWC-1									X		
PH1-GWC-2					X	X				X	
PH1-GWC-3	X				X	X	X				
PH1-GWC-3A					X		X				
PH1-GWC-4											
GWC-1									X		
<b>Phase II, III, and IV Downgradient Groundwater Network Locations</b>											
GWA-1A											
GWA-3											
GWC-2											
GWC-3											
GWC-3A											
GWC-4											
GWC-4A											
GWC-5											
GWC-6											
GWC-7											
GWC-8											
GWC-8A					X						
GWC-8R	X				X						
GWC-9									X		
GWC-10											
GWC-10A											
GWC-11											
GWC-12											
GWC-12A											
GWC-13											
GWC-14											X
GWC-14A	X	X	X	X	X			X	X		X
GWC-14R	X				X		X				
GWC-15											
GWC-16A											
GWC-17											
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                      PCE = Tetrachloroethene  
 cis-1,2-DCE = cis-1,2-Dichloroethene                      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**  
**June 2023 Sampling Event**

Well	Parameter	Dec-21	Jun-22	Dec-22	Jun-23	mean	SD	95% LCL	GWPS	95% LCL > GWPS
PH1-GWC-3	PCE	8.8	8.3	9.5	8.3	8.7	0.6	8.1	5	Yes
PH1-GWC-3	TCE	7.1	7.2	9.5	8	8.0	1.1	6.6	5	Yes
PH1-GWC-3A	TCE	5.7	6.8	8	5.5	6.5	1.2	5.1	5	Yes
GWC-14A	Vinyl Chloride	19	19	14	16	17.0	2.4	14.1	2	Yes

**Notes:** Reference: D7048 - 16 Standard Guide for Applying Statistical Methods for Assessment and Corrective Action  
Environmental Monitoring Programs

**Acronyms:** GWPS = groundwater protection standard

PCE = Tetrachloroethene

LCL = lower confidence limit

SD = standard deviation

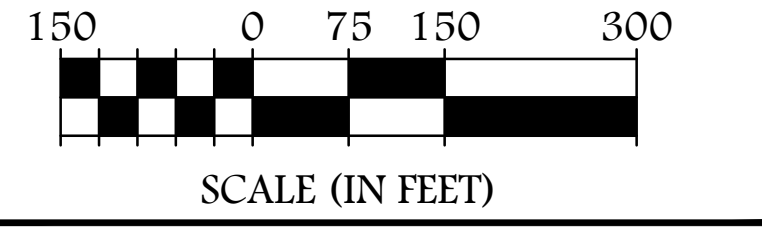
TCE = Trichloroethene

**FIGURE**





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



SUMMARY OF GROUNDWATER ELEVATION DATA FORSYTH COUNTY - HIGHTOWER ROAD MSWLF JUNE 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	37.25	1139.12
PH1-GWA-1A	108	1176.35	38.52	1137.83
PH1-GWA-2	53.6	1183.4	35.55	1147.85
PH1-GWA-3A	250	1187.16	35.46	1151.70
PH1-GWA-4	57	1191.14	34.93	1156.21
PH1-GWB-1	53.8	1179.1	41.54	1137.56
PH1-GWB-2	42.22	1155.04	24.30	1130.74
PH1-GWC-1	23.79	1074.66	9.70	1064.96
PH1-GWC-2	127.61	1103.93	22.66	1081.27
PH1-GWC-3	23.42	1096.96	11.72	1085.24
PH1-GWC-3A	55.42	1096.28	10.86	1085.42
PH1-GWC-4	33.71	1124.26	28.52	1095.74
GWC-1	38.8	1102.25	28.19	1074.06
GWC-2	50.4	1186.23	38.50	1147.73
GWC-3	41.69	1162.64	30.59	1132.05
GWC-4	56.81	1180.73	42.61	1138.12
GWA-1	62.85	1187.70	55.01	1132.69
GWA-1A	141.00	1187.49	55.93	1131.56
GWA-2	52.18	1137.30	38.77	1098.53
GWA-3	48.86	1154.53	38.74	1115.79
GWC-2	55.61	1103.64	45.02	1058.62
GWC-3	39.71	1092.39	33.52	1058.87
GWC-3A	68.95	1094.67	31.73	1062.94
GWC-4	49.81	1132.82	43.55	1089.27
GWC-4A	89.23	1132.39	40.36	1092.03
GWC-5	49.91	1084.55	45.63	1038.92
GWC-6	34.52	1064.01	25.22	1038.79
GWC-7	54.21	1093.44	40.63	1052.81
GWC-8	27.53	1095.63	20.45	1075.18
GWC-8A	46.71	1095.44	19.50	1075.94
GWC-8R	94.67	1098.40	22.29	1076.11
GWC-9	60.50	1093.58	45.49	1048.09
GWC-10	37.51	1068.56	21.72	1046.84
GWC-10A	54.30	1066.45	23.71	1042.74
GWC-11	46.80	1054.08	32.48	1021.60
GWC-12	40.06	1038.06	28.54	1009.52
GWC-12A	49.44	1038.09	29.70	1008.39
GWC-13	44.95	1090.82	30.75	1060.07
GWC-14	28.37	1089.49	23.10	1066.39
GWC-14A	64.75	1089.32	22.35	1066.97
GWC-14R	93.61	1078.60	13.25	1065.35
GWC-15	62.84	1125.68	56.10	1069.58
GWC-16A	51.05	1136.49	49.80	1086.69
GWC-17	21.59	1107.78	14.08	1093.70
GWC-18	52.70	1094.87	40.67	1054.20
GWC-19R	39.87	1105.79	27.66	1078.13
GWC-22	35.05	1079.01	21.96	1057.05
GWC-23	32.22	1079.06	17.26	1061.80
GWC-23A	61.67	1079.10	14.91	1064.19
GWC-24	44.09	1102.32	34.14	1068.18
AMW-1	180.70	1130.04	60.01	1070.03
AMW-2	150.00	1101.96	39.57	1062.39
AMW-3	31.30	1041.09	9.99	1031.10
AMW-4	18.80	1040.09	4.47	1035.62
AMW-5	23.06	1049.32	8.47	1040.85
AMW-11R	58.10	1053.63	8.85	1044.78
AMW-12	19.56	1056.85	7.75	1049.10
AMW-12R	46.43	1056.34	10.01	1046.33
AMW-13	36.18	1093.09	29.74	1063.35
AMW-14	21.70	1052.73	9.96	1042.77

NOTES:  
DEPTHS TO WATER MEASURED JUNE 19, 2023.  
FT BTOC = FEET BELOW TOP OF CASING  
FT MSL = FEET MEAN SEA LEVEL  
TOC = TOP OF CASING

LEGEND

EXISTING	DESCRIPTION
850	PROMINENT CONTOUR
---	INTERMEDIATE CONTOUR
---	PROPERTY BOUNDARY
---	APPROXIMATE LIMIT OF WASTE
---	SURFACE WATER/POND
---	GROUNDWATER CONTOUR
---	GROUNDWATER FLOW DIRECTION
● GWA-1	GROUNDWATER MONITORING WELL
● 1002.23	ELEVATION IN FEET MEAN SEA LEVEL
▼ SWA-1	SURFACE WATER MONITORING POINT
□ MM-1	METHANE MONITORING POINT
□ MV-1	METHANE VENT
---	METHANE VENT TRENCH
○ PH1-MV04	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.
- GWA-1A\*, GWC-4A\*, GWC-23A\*, AMW-2\* AND AMW-10\* ARE NOT USED FOR POTENTIOMETRIC CONTOURS.
- POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.
- DEPTHS TO GROUNDWATER MEASURED BY ATLANTIC COAST CONSULTING, INC. JUNE 19, 2023.

REVISIONS

0. INITIAL ISSUE	09/01/2023
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PROJECT

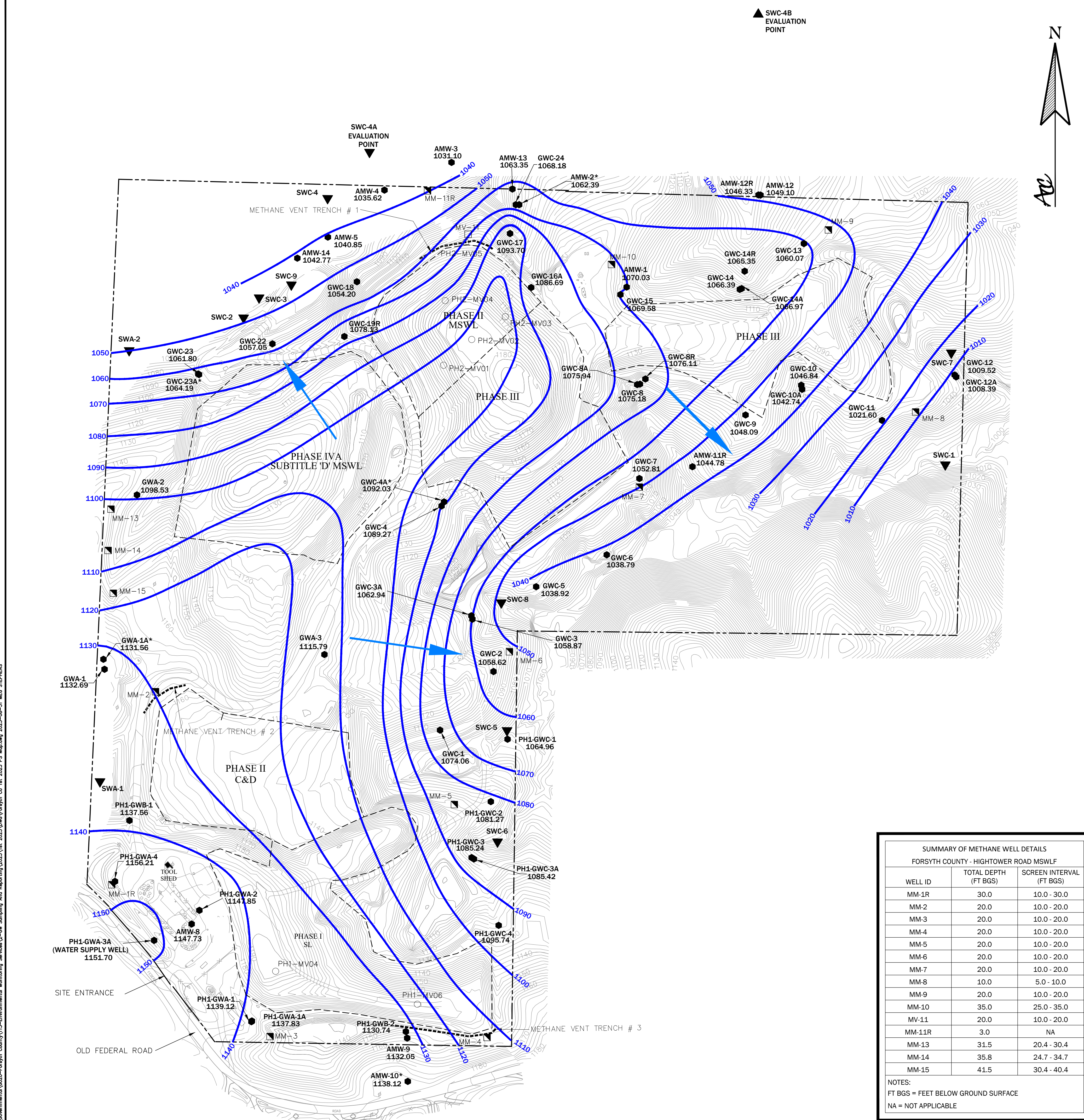


FORSYTH COUNTY  
HIGHTOWER ROAD LANDFILL

POTENTIOMETRIC  
SURFACE MAP  
JUNE 2023

Drawn by: AS	Checked by: CA	QC by: JPS
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PROJECT NUMBER: G020-113	FIGURE: 1
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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
MV-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

P:\Governmental\0200-Forsyth County\113-Environmental Monitoring Services\2-Off Sampling and Reporting\2023\113-2023\GWS\Forsyth Co. 113-2023.PS Map.dwg 2023-06-31 MEG STEPHENS



## ATTACHMENTS

**ATTACHMENT A**  
**LABORATORY ANALYTICAL RESULTS**



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

July 07, 2023

Charles Adams  
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy  
Roswell GA 30076

RE: Forsyth County-Hightower Road MSWLF

Dear Charles Adams:

Order No: 2306T46

Analytical Environmental Services, Inc. received 106 samples on June 23, 2023 3:22 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 07/01/22-06/30/23.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/23 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 11/01/23.

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 <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> 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	App. II VOC	App. II SVOC/BNA	SW Metals **	Chloride	Cyanide	COD	TOC	REMARKS		
SAMPLED BY: <i>H. Auld, D. Johnson</i>		SIGNATURE: <i>H. Auld</i>																
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H+I	N	H+I	I	N	I	NaOH	S+I	S+I			
1	GWA-2	6-21-23	1030	✓		GW	✓										1	
2	GWA-3	6-21-23	0950	✓		GW	✓										1	
3	GWC-4	6-21-23	0940	✓		GW	✓										1	
4	GWC-5	6-21-23	0935	✓		GW	✓										1	
5	GWC-6	6-21-23	0925	✓		GW	✓										1	
6	GWC-7	6-21-23	0920	✓		GW	✓										1	
7	GWC-18	6-21-23	0810-0850	✓		GW	✓										1	
8	GWC-19R	6-21-23	0910	✓		GW	✓										1	
9	GWC-22	6-21-23	0905	✓		GW	✓										1	
10	GWC-4A	6-21-23	1705	✓		GW	✓										2	
11	GWC-10	6-22-23	0855	✓		GW	✓										1	
12	GWC-10A	6-22-23	0850	✓		GW	✓										1	
13	GWC-14	6-22-23	0835	✓		GW	✓										1	
14	AMW-1	6-22-23	1630	✓		GW	✓	✓									3	
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION								RECEIPT		
1. <i>Erin Stamm</i>		6-23-23/15:22		1. <i>OC OP</i>		06.23.23 1522		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 checked="" type="checkbox"/> Standard		
SPECIAL INSTRUCTIONS/COMMENTS: ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg		SHIPMENT METHOD		OUT: / /		VIA: 1.6°C		SEND REPORT TO: Charles Adams, Betsy McDaniel								<input type="checkbox"/> 2 Business Day Rush		
		IN: <i>(Client)</i> / /		VIA: <i>(Client)</i>		other: _____		INVOICE TO (IF DIFFERENT FROM ABOVE):								<input type="checkbox"/> Next Business Day Rush		
								QUOTE #: _____ PO#: _____								<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: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV		

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**CHAIN OF CUSTODY**

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy Suite 100 Roswell, GA 30076		ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> 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		App. II VOC	App. II SVOC/BNA		SW Metals **	Chloride	Cyanide	COD			TOC			
SAMPLED BY: <u>H. Auld</u>		SIGNATURE: <u>[Signature]</u>		SAMPLED:			PRESERVATION (see codes)										REMARKS		
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H+I	N		H+I	I	N	I	NaOH	S+I	S+I			
1	PHI-GWA-1	6-20-23	1225	✓		GW				✓									
2	PHI-GWA-3A	6-20-23	1500	✓		GW	✓	✓											
3	PHI-GWB-2	6-20-23	1500	✓		GW	✓												
4	PHI-GWB-1	6-20-23	<del>1615</del> <sup>1615</sup>	✓		GW	✓										Time = 1615 <sup>410</sup>		
5	AMW-9	6-20-23	1530	✓		GW				✓									
6	GWA-3	6-20-23	1420	✓		GW	✓												
7	<del>GWA-4A</del> GWC-4	6-20-23	1315	✓		GW	✓												
8	GWC-5	6-20-23	1250	✓		GW	✓												
9	GWC-6	6-20-23	1220	✓		GW	✓												
10	GWC-7	6-20-23	1150	✓		GW	✓												
11	GWC-18	6-20-23	0900	✓		GW				✓									
12	GWC-19R	6-20-23	1120	✓		GW				✓									
13	GWC-22	6-20-23	1055	✓		GW	✓												
14	AMW-4	6-20-23	0930	✓		GW				✓									
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1. <u>[Signature]</u>		6-23-23/1522		1. <u>[Signature]</u>		06-23-23 1522		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 checked="" type="checkbox"/> Standard	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: Charles Adams, Betsy McDaniel										<input type="checkbox"/> 2 Business Day Rush	
** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg				OUT: / / VIA: / /		IN: / / VIA: / /		INVOICE TO (IF DIFFERENT FROM ABOVE):										<input type="checkbox"/> Next Business Day Rush	
				Client FedEx UPS US mail courier		other: _____		1.6°C										<input type="checkbox"/> Same-Day Rush (auth req.)	
								QUOTE #: _____ PO#: _____										<input type="checkbox"/> Other _____	
																		STATE PROGRAM (if any): _____	
																		E-mail <input type="checkbox"/> Fax <input type="checkbox"/>	
																		DATA PACKAGE: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	

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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) 7.15.19\_COC  
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 <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> 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	App. II VOC	App. II SVOC/BNA	SW Metals **	Chloride	Cyanide	COD	TOC				
SAMPLED BY: <u>Ch. Adams</u>		SIGNATURE: <u>Ch. Adams</u>					PRESERVATION (see codes)										REMARKS		
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H+I	N		H+I	I		N	I	NaOH	S+I			
1	SWC-4B	6-19-23	1335	✓		SW	✓												2
2	GW-1	6-19-23	1435	✓		GW	✓												2
3	GW-2	6-19-23	1500	✓		GW	✓												2
4	GW-3	6-19-23	1515	✓		GW	✓												2
5	GW-3A	6-19-23	1550	✓		GW	✓												2
6	PHI-GWC-4	6-19-23	1625	✓		GW	✓												2
7	PHI-GWC-1	6-19-23	1640	✓		GW	✓												2
8	PHI-GWC-4	6-20-23	0845	✓		GW		✓											1
9	PHI-GWC-1	6-20-23	0855	✓		GW		✓											1
10	GW-1	6-20-23	0905	✓		GW		✓											1
11	GW-2	6-20-23	0915	✓		GW		✓											1
12	GW-3	6-20-23	0925	✓		GW		✓											1
13	GW-3A	6-20-23	0930	✓		GW		✓											1
14	GWA-2	6-20-23	1155	✓		GW	✓												2
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1. <u>Ch. Adams</u>		6-23-23/1522		1. <u>Ch. Adams</u>		6-23-23/1522		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 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: ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg		SHIPMENT METHOD		1.6°C		SEND REPORT TO: Charles Adams, Betsy McDaniel										STATE PROGRAM (if any): _____			
		OUT: / / VIA:		IN: / / VIA:		INVOICE TO (IF DIFFERENT FROM ABOVE):										E-mail <input type="checkbox"/> Fax <input type="checkbox"/>			
		Client FedEx UPS US mail courier		other: _____		QUOTE #: _____ PO#: _____										DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>			

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**CHAIN OF CUSTODY**

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy Suite 100 Roswell, GA 30076		ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> 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	App. II VOC	App. II SVOC/BNA	SW Metals **	Chloride	Cyanide	COD	TOC	REMARKS		
SAMPLED BY: <u>Eric Stamm</u>		SIGNATURE: <u>[Signature]</u>		SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)						
#	SAMPLE ID	DATE	TIME	H+I	N				H+I	I	N	I	NaOH	S+I	
1	GWC-12A	6/21/23	1015	✓										1	
2	GWC-11	6/20/23	1550	✓										2	
3	GWC-11	6/21/23	1025	✓										1	
4	GWC-9	6/20/23	1630	✓										2	
5	GWC-9	6/21/23	1045	✓										1	
6	GWC-14R	6/21/23	1240	✓			✓	✓						6	
7	GWA-1A	6/22/23	1010	✓			✓	✓						3	
8	GWC-8R	6/21/23	1520	✓			✓	✓						6	
9	PH1-GWA-2	6/21/23	1645	✓			✓							2	
10	PH1-GWA-2	6/22/23	0945	✓				✓						1	
11	PH1-GWC-2	6/22/23	1200	✓			✓	✓						3	
12	PH1-GWA-1A	6/22/23	1515	✓			✓	✓						3	
13	SWC-1	6/22/23	1640	✓					✓	✓	✓	✓	✓	8	
14	Field Blank 2	6/21/23	1210	✓			W	✓	✓					3	
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION						RECEIPT	
1. <u>[Signature]</u>		6-23-23/1522		1. <u>[Signature]</u>		06.23.23 1522		PROJECT NAME: Forsyth County - Hightower Road MSWLF						Total # of Containers <b>42</b>	
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	
								SEND REPORT TO: Charles Adams, Betsy McDaniel						<input type="checkbox"/> 2 Business Day Rush	
								INVOICE TO (IF DIFFERENT FROM ABOVE):						<input type="checkbox"/> Next Business Day Rush	
SPECIAL INSTRUCTIONS/COMMENTS: ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg				SHIPMENT METHOD										<input type="checkbox"/> Same-Day Rush (auth req.)	
				OUT: / / VIA: 1.6°C										<input type="checkbox"/> Other _____	
				IN: <u>[Signature]</u> / / VIA: 1.6°C										STATE PROGRAM (if any): _____	
				Client FedEx UPS US mail courier										E-mail <input type="checkbox"/> Fax <input type="checkbox"/>	
				other: _____										DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
								QUOTE #: _____ PO#: _____							

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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 <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> 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	App. II VOC	App. II SVOC/BNA	SW Metals **	Chloride	Cyanide	COD	TOC	REMARKS							
SAMPLED BY: <u>Eric Stamm</u>		SIGNATURE: <u>Eric Stamm</u>															PRESERVATION (see codes)						
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)																	
		DATE	TIME				H+I	N		H+I	I		N	I	NaOH	S+I		S+I					
1	GWC-16A	6/20/23	0945	X		GW				X									2				
2	GWC-24	6/20/23	1020	X		GW	X												2				
3	GWC-24	6/21/23	0905	X		GW	X												1				
4	AMW-13	6/20/23	1100	X		GW	<del>X</del>		X										2				
5	AMW-13	6/21/23	0900	X		GW		X											1				
6	GWC-17	6/20/23	1125	X		GW			X										2				
7	GWC-17	6/21/23	0920	X		GW		X											1				
8	GWC-14A	6/20/23	1305	X		GW			X										2				
9	GWC-14A	6/21/23	0940	X		GW		X											1				
10	GWC-13	6/20/23	1340	X		GW	X												2				
11	GWC-13	6/21/23	0955	X		GW		X											1				
12	GWC-12	6/20/23	1420	X		GW	X												2				
13	GWC-12	6/21/23	1010	X		GW		X											1				
14	GWC-12A	6/20/23	1500	X		GW	X												2				
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT					
1. <u>Eric Stamm</u>		6-23-23/1522		1. <u>Q.P.</u>		06.23.23 15:22		PROJECT NAME: Forsyth County - Hightower Road MSWLF										Total # of Containers <u>22</u>					
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: ** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg		SHIPMENT METHOD		OUT: / /		VIA: 1-6°C		SEND REPORT TO: Charles Adams, Betsy McDaniel										STATE PROGRAM (if any): _____ E-mail <input type="checkbox"/> Fax <input type="checkbox"/> DATA PACKAGE: <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV					
		IN: <u>Client</u>		FedEx		UPS		US mail		courier		other: _____		INVOICE TO (IF DIFFERENT FROM ABOVE):									
								QUOTE #: _____										PO#: _____					

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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 <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> 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	App. II VOC	App. II SVOC/BNA	SW Metals **	Chloride	Cyanide	COD	TOC	REMARKS									
SAMPLED BY: <u>H. Auld, E. Stamm</u>		SIGNATURE: <u>[Signature]</u>		PRESERVATION (see codes)																		
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)																
		DATE	TIME				H+I	N	H+I	I	N	I	NaOH	S+I	S+I							
<del>1</del>	<del>PHI-GWA-2</del>	<del>6-21-23</del>	<del>1645</del>	<del>✓</del>		<del>GW</del>															<del>PHI</del>	<del>2</del>
<del>2</del>	<del>PHI-GWA-2</del>	<del>6-22-23</del>	<del>0945</del>	<del>✓</del>		<del>GW</del>	✓														<del>PHI</del>	<del>1</del>
3	PHI-GWC-3	6-22-23	1100	✓		GW	✓	✓														3
4	PHI-GWC-3A	6-22-23	1115	✓		GW	✓	✓														3
5	GWA-1	6-22-23	1515	✓		GW	✓	✓														3
6	GWC-4A	6-22-23	0930	✓		GW	✓															1
7	GWC-8	6-22-23	0910	✓		GW	✓															1
8	GWC-8A	6-22-23	0905	✓		GW	✓															1
9	GWC-23	6-22-23	0920	✓		GW	✓															1
10	GWC-23A	6-22-23	0925	✓		GW	✓															1
11	AMW-12	6-22-23	1250	✓		GW	✓															2
12	AMW-12R	6-22-23	1235	✓		GW	✓															2
13	PHI-GWA-4	6-23-23	0925	✓		GW	✓	✓														3
14	Trip Blank			✓		W	✓	✓														2

RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION				RECEIPT	
1. <u>[Signature]</u>		6-23-23/1522		2. <u>[Signature]</u>		06. 23. 23 1522		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 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: ** 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: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	

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**CHAIN OF CUSTODY**

COMPANY: <i>Atlantic Coast Consulting, Inc.</i>		ADDRESS: <i>1150 Northmeadow Pkwy Suite 100 Roswell, GA 30075</i>			ANALYSIS REQUESTED <i>Dissolved Metals</i>						Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.		Number of Containers		
PHONE: <i>770-594-5998</i>		EMAIL: <i>Charles.adams@aalki.net</i>													
SAMPLED BY: <i>H. Auluf</i>		SIGNATURE: <i>[Signature]</i>			PRESERVATION (see codes)						REMARKS				
#	SAMPLE ID	SAMPLED:		GRAB										COMPOSITE	MATRIX (see codes)
		DATE	TIME												
1	<del>PHEN</del> <i>GWC-4A</i>	<i>6-22-23</i>	<i>0935</i>	<input checked="" type="checkbox"/>		<i>GW</i>	<input checked="" type="checkbox"/>					<i>Field Filtered</i>	<i>1</i>		
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION						RECEIPT	
1. <i>Eric Stamm</i>		<i>6-23-23/1522</i>		1. <i>[Signature]</i>		<i>06-23-23 1522</i>		PROJECT NAME: <i>Forsyth Co. Hightower Rd. LE</i>						Total # of Containers	
2.				2.				PROJECT #:						Turnaround Time (TAT) Request in Business Days	
3.				3.				SITE ADDRESS: <i>9480 Old Federal Rd. Ball Ground, GA</i>						<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 4-Day Rush*	
SPECIAL INSTRUCTIONS/COMMENTS: <i>* Dissolved metals list = Appendix 1</i>		SHIPMENT METHOD		OUT: / /		VIA: <i>1.6°C</i>		SEND REPORT TO: <i>Charles Adams, Betsy McDaniel</i>						<input type="checkbox"/> 3-Day Rush* <input type="checkbox"/> 2-Day Rush*	
				IN: / /		VIA: <i>1.6°C</i>								<input type="checkbox"/> Next Day Rush* <input type="checkbox"/> Other _____	
				Client		FedEx		UPS		US mail		courier		<input type="checkbox"/> Same-Day Rush*(auth req.)	
				other: _____										*Surcharges apply for Rush TAT	
														REGULATORY PROGRAM (if any):	
														DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O	

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.



COMPANY: <i>Atlantic Coast Consulting, Inc.</i>		ADDRESS: <i>1150 Northmeadow Pkwy Suite 100 Roswell, GA 30075</i>			ANALYSIS REQUESTED								Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.		Number of Containers
PHONE: <i>770-594-5998</i>		EMAIL: <i>Charles.adams@atcc.net</i>			SW Metals Cyanide COD Chloride TDC Hg APP 1 VOL	PRESERVATION (see codes)									
SAMPLED BY: <i>H. Auel, E. Stamm</i>		SIGNATURE: <i>[Signature]</i>					DATE						REMARKS		
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)							REMARKS	Number of Containers
		DATE	TIME				1	2	3	4	5	6	7		
1	<i>SWA-1</i>	<i>6-23-23</i>	<i>0850</i>	<input checked="" type="checkbox"/>		<i>SW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>6</i>
2	<i>SWA-2</i>	<i>6-23-23</i>	<i>0915</i>	<input checked="" type="checkbox"/>		<i>SW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>6</i>
3	<i>SWC-2</i>	<i>6-23-23</i>	<i>0930</i>	<input checked="" type="checkbox"/>		<i>SW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>6</i>
4	<i>SWC-3</i>	<i>6-23-23</i>	<i>0945</i>	<input checked="" type="checkbox"/>		<i>SW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>6</i>
5	<i>SWC-4</i>	<i>6-23-23</i>	<i>1000</i>	<input checked="" type="checkbox"/>		<i>SW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<i>8</i>
6	<i>SWC-4A</i>	<i>6-23-23</i>	<i>1015</i>	<input checked="" type="checkbox"/>		<i>SW</i>					<input checked="" type="checkbox"/>				<i>2</i>
7	<i>SWC-5</i>	<i>6-23-23</i>	<i>1105</i>	<input checked="" type="checkbox"/>		<i>SW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>6</i>
8	<i>SWC-6</i>	<i>6-23-23</i>	<i>1120</i>	<input checked="" type="checkbox"/>		<i>SW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<i>8</i>
9															
10															
11															
12															
13															
14															
RELINQUISHED BY: <i>Eric Stamm</i>		DATE/TIME: <i>6-23-23/1522</i>		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: <i>06-23-23 1522</i>		PROJECT INFORMATION					RECEIPT		
1. <i>Eric Stamm</i>		2. <i>[Signature]</i>		3. <i>[Signature]</i>		PROJECT NAME: <i>Forsyth County Hightower Rd. LF</i>					Total # of Containers				
2.		3.		PROJECT #: <i>6020-113</i>					Turnaround Time (TAT) Request in Business Days						
3.		SITE ADDRESS: <i>9480 Old Federal Rd. Ball Ground, GA</i>					<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 4-Day Rush*								
		SEND REPORT TO: <i>Charles Adams, Betsy McDaniel</i>					<input type="checkbox"/> 3-Day Rush* <input type="checkbox"/> 2-Day Rush*								
		INVOICE TO (IF DIFFERENT FROM ABOVE):					<input type="checkbox"/> Next Day Rush* <input type="checkbox"/> Other								
		SHIPMENT METHOD					REGULATORY PROGRAM (if any):								
		OUT: / /		VIA: <i>1-6°C</i>		*Surcharges apply for Rush TAT									
		IN: / /		VIA: <i>1-6°C</i>		DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV									
		Client		FedEx		UPS		US mail		courier					
		other: _____				QUOTE #:		PO#:							

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**Client:** Atlantic Coast Consulting, Inc.  
**Project:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46

**Case Narrative**

Sample Receiving Non-conformance:

Sample AMW-1 (AES: 2306T46-014A) was listed on the Chain of Custody for App II VOCs and App I Metals, but the App II VOC vials were not received. Instead, an extra set of vials were received which were listed as GWC-15 on the labels, but matched the collection date/time of AMW-1. At the request of Charles B. Adams with ACC, the additional vials listed as GWC-15 were logged in and analyzed as AMW-1.

Total Metals Analysis by Method 6020B:

Zinc was detected in Method Blank 358790 at 0.22 mg/L which was above reporting limit of 0.2 mg/L resulting in "B" qualified data for the Batch QC samples. Associated sample values were less than reporting limit and data is reportable with high bias.



<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWA-2
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 10:30:00 AM
<b>Lab ID:</b>	2306T46-001	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 14:08	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 14:08	AD
Barium	0.0226	0.0200		mg/L	358789	1	06/28/2023 14:08	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 14:08	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 14:08	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 14:08	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 14:08	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 14:08	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 14:08	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 14:08	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 14:08	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 14:08	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 14:08	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 14:08	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 14:08	AD

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWA-3
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 9:50:00 AM
<b>Lab ID:</b>	2306T46-002	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 14:26	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 14:26	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 14:26	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 14:26	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 14:26	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 14:26	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 14:26	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 14:26	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 14:26	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 14:26	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 14:26	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 14:26	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 14:26	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 14:26	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 14:26	AD

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:40:00 AM
<b>Lab ID:</b> 2306T46-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
<b>SW6020B</b>								
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 14:30	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 14:30	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 14:30	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 14:30	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 14:30	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 14:30	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 14:30	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 14:30	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 14:30	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 14:30	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 14:30	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 14:30	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 14:30	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 14:30	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 14:30	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-5
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:35:00 AM
<b>Lab ID:</b> 2306T46-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
<b>SW6020B</b>								
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:11	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:11	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:11	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:11	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:11	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:11	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:11	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:11	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:11	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:11	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:11	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:11	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:11	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:11	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 19:11	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-6
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:25:00 AM
<b>Lab ID:</b> 2306T46-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:15	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:15	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:15	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:15	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:15	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:15	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:15	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:15	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:15	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:15	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:15	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:15	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:15	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:15	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 19:15	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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-7
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 9:20:00 AM
<b>Lab ID:</b>	2306T46-006	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:18	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:18	AD
Barium	0.0348	0.0200		mg/L	358789	1	06/28/2023 19:18	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:18	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:18	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:18	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:18	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:18	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:18	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:18	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:18	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:18	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:18	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:18	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 19:18	AD

**Qualifiers:**

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- 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-18
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 8:50:00 AM
<b>Lab ID:</b> 2306T46-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:22	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:22	AD
Barium	0.219	0.0200		mg/L	358789	1	06/28/2023 19:22	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:22	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:22	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:22	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:22	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:22	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:22	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:22	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:22	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:22	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:22	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:22	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 19:22	AD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-19R
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:10:00 AM
<b>Lab ID:</b> 2306T46-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:26	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:26	AD
Barium	0.0974	0.0200		mg/L	358789	1	06/28/2023 19:26	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:26	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:26	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:26	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:26	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:26	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:26	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:26	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:26	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:26	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:26	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:26	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 19:26	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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-22
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:05:00 AM
<b>Lab ID:</b> 2306T46-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:29	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:29	AD
Barium	0.0244	0.0200		mg/L	358789	1	06/28/2023 19:29	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:29	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:29	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:29	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:29	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:29	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:29	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:29	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:29	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:29	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:29	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:29	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 19:29	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:** 2306T46-010

**Client Sample ID:** GWC-4A  
**Collection Date:** 6/21/2023 5:05:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 01:01	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 01:01	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 01:01	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 01:01	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 01:01	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 01:01	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 01:01	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 01:01	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 01:01	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 01:01	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 01:01	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 01:01	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 01:01	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 5:05:00 PM
<b>Lab ID:</b> 2306T46-010	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 01:01	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 01:01	OM
Surr: 4-Bromofluorobenzene	96.2	70-126		%REC	359061	1	07/02/2023 01:01	OM
Surr: Dibromofluoromethane	104	77-121		%REC	359061	1	07/02/2023 01:01	OM
Surr: Toluene-d8	99.3	78.6-119		%REC	359061	1	07/02/2023 01:01	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 8:55:00 AM
<b>Lab ID:</b> 2306T46-011	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:33	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:33	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:33	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:33	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:33	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:33	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:33	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:33	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:33	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:33	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:33	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:33	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:33	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:33	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 19:33	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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-10A
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/22/2023 8:50:00 AM
<b>Lab ID:</b>	2306T46-012	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 19:36	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 19:36	AD
Barium	0.0306	0.0200		mg/L	358789	1	06/28/2023 19:36	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 19:36	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 19:36	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:36	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 19:36	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 19:36	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 19:36	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 19:36	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 19:36	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 19:36	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 19:36	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 19:36	AD
Zinc	0.0213	0.0200		mg/L	358789	1	06/28/2023 19:36	AD

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-14
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/22/2023 8:35:00 AM
<b>Lab ID:</b>	2306T46-013	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:01	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:01	AD
Barium	0.0264	0.0200		mg/L	358789	1	06/28/2023 20:01	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:01	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:01	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:01	AD
Cobalt	0.0550	0.0400		mg/L	358789	1	06/28/2023 20:01	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:01	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:01	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:01	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:01	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:01	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:01	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:01	AD
Zinc	0.0219	0.0200		mg/L	358789	1	06/28/2023 20:01	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 4:30:00 PM
<b>Lab ID:</b> 2306T46-014	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 17:16	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 17:16	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 17:16	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 17:16	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 17:16	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 17:16	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 17:16	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 17:16	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 17:16	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 17:16	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 17:16	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 17:16	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 4:30:00 PM
<b>Lab ID:</b> 2306T46-014	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>						
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 17:16	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 17:16	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 17:16	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 17:16	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 17:16	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 17:16	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 17:16	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 17:16	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 17:16	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 17:16	OM
Surr: 4-Bromofluorobenzene	83.8	70-126		%REC	359139	1	07/01/2023 17:16	OM
Surr: Dibromofluoromethane	88.1	77-121		%REC	359139	1	07/01/2023 17:16	OM
Surr: Toluene-d8	82.8	78.6-119		%REC	359139	1	07/01/2023 17:16	OM

<b>APPENDIX I METALS</b>		<b>SW6020B</b>						
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:05	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:05	AD
Barium	0.0244	0.0200		mg/L	358789	1	06/28/2023 20:05	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:05	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:05	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:05	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:05	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:05	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:05	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:05	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:05	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:05	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:05	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:05	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:05	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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 12:25:00 PM
<b>Lab ID:</b> 2306T46-015	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 17:40	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 17:40	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 17:40	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 17:40	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 17:40	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 17:40	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 17:40	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 17:40	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 17:40	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 17:40	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 17:40	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 17:40	OM
cis-1,2-Dichloroethene	3.7	2.0		ug/L	359139	1	07/01/2023 17:40	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM

<b>Qualifiers:</b>	* 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: 2306T46-015

Client Sample ID: PH1-GWA-1  
 Collection Date: 6/20/2023 12:25:00 PM  
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>						
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 17:40	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 17:40	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 17:40	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 17:40	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 17:40	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 17:40	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 17:40	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 17:40	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 17:40	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 17:40	OM
Surr: 4-Bromofluorobenzene	84	70-126		%REC	359139	1	07/01/2023 17:40	OM
Surr: Dibromofluoromethane	92.7	77-121		%REC	359139	1	07/01/2023 17:40	OM
Surr: Toluene-d8	83.9	78.6-119		%REC	359139	1	07/01/2023 17:40	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-016

**Client Sample ID:** PH1-GWA-3A  
**Collection Date:** 6/20/2023 3:00:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/01/2023 22:15	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/01/2023 22:15	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
2-Butanone	BRL	100		ug/L	359061	1	07/01/2023 22:15	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/01/2023 22:15	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/01/2023 22:15	OM
Acetone	BRL	100		ug/L	359061	1	07/01/2023 22:15	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/01/2023 22:15	OM
Benzene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Bromoform	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Bromomethane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/01/2023 22:15	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Chloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Iodomethane	BRL	100		ug/L	359061	1	07/01/2023 22:15	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/01/2023 22:15	OM
Styrene	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Toluene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/01/2023 22:15	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/01/2023 22:15	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/01/2023 22:15	OM

**Qualifiers:**

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

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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-3A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 3:00:00 PM
<b>Lab ID:</b> 2306T46-016	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/01/2023 22:15	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/01/2023 22:15	OM
Surr: 4-Bromofluorobenzene	98.5	70-126		%REC	359061	1	07/01/2023 22:15	OM
Surr: Dibromofluoromethane	108	77-121		%REC	359061	1	07/01/2023 22:15	OM
Surr: Toluene-d8	99.2	78.6-119		%REC	359061	1	07/01/2023 22:15	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:08	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:08	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:08	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:08	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:08	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:08	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:08	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:08	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:08	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:08	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:08	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:08	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:08	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:08	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:08	AD

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 3:00:00 PM
<b>Lab ID:</b> 2306T46-017	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/01/2023 22:39	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/01/2023 22:39	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
2-Butanone	BRL	100		ug/L	359061	1	07/01/2023 22:39	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/01/2023 22:39	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/01/2023 22:39	OM
Acetone	BRL	100		ug/L	359061	1	07/01/2023 22:39	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/01/2023 22:39	OM
Benzene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Bromoform	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Bromomethane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/01/2023 22:39	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Chloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Iodomethane	BRL	100		ug/L	359061	1	07/01/2023 22:39	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/01/2023 22:39	OM
Styrene	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Toluene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/01/2023 22:39	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/01/2023 22:39	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/01/2023 22:39	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 3:00:00 PM
<b>Lab ID:</b> 2306T46-017	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/01/2023 22:39	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/01/2023 22:39	OM
Surr: 4-Bromofluorobenzene	96.8	70-126		%REC	359061	1	07/01/2023 22:39	OM
Surr: Dibromofluoromethane	102	77-121		%REC	359061	1	07/01/2023 22:39	OM
Surr: Toluene-d8	98.5	78.6-119		%REC	359061	1	07/01/2023 22:39	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-018

**Client Sample ID:** PH1-GWB-1  
**Collection Date:** 6/20/2023 4:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/01/2023 23:26	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/01/2023 23:26	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
2-Butanone	BRL	100		ug/L	359061	1	07/01/2023 23:26	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/01/2023 23:26	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/01/2023 23:26	OM
Acetone	BRL	100		ug/L	359061	1	07/01/2023 23:26	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/01/2023 23:26	OM
Benzene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Bromoform	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Bromomethane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/01/2023 23:26	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Chloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Iodomethane	BRL	100		ug/L	359061	1	07/01/2023 23:26	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/01/2023 23:26	OM
Styrene	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Toluene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/01/2023 23:26	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/01/2023 23:26	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/01/2023 23:26	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 4:15:00 PM
<b>Lab ID:</b> 2306T46-018	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/01/2023 23:26	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/01/2023 23:26	OM
Surr: 4-Bromofluorobenzene	100	70-126		%REC	359061	1	07/01/2023 23:26	OM
Surr: Dibromofluoromethane	112	77-121		%REC	359061	1	07/01/2023 23:26	OM
Surr: Toluene-d8	99.7	78.6-119		%REC	359061	1	07/01/2023 23:26	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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-9
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 3:30:00 PM
<b>Lab ID:</b> 2306T46-019	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 18:03	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 18:03	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 18:03	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 18:03	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 18:03	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 18:03	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 18:03	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 18:03	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 18:03	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 18:03	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 18:03	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 18:03	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-9
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 3:30:00 PM
<b>Lab ID:</b> 2306T46-019	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 18:03	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 18:03	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 18:03	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 18:03	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 18:03	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 18:03	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 18:03	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 18:03	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 18:03	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 18:03	OM
Surr: 4-Bromofluorobenzene	85.2	70-126		%REC	359139	1	07/01/2023 18:03	OM
Surr: Dibromofluoromethane	93.6	77-121		%REC	359139	1	07/01/2023 18:03	OM
Surr: Toluene-d8	84.4	78.6-119		%REC	359139	1	07/01/2023 18:03	OM

<b>Qualifiers:</b>	* 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:** 2306T46-020

**Client Sample ID:** GWA-3  
**Collection Date:** 6/20/2023 2:20:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/01/2023 23:50	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/01/2023 23:50	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
2-Butanone	BRL	100		ug/L	359061	1	07/01/2023 23:50	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/01/2023 23:50	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/01/2023 23:50	OM
Acetone	BRL	100		ug/L	359061	1	07/01/2023 23:50	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/01/2023 23:50	OM
Benzene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Bromoform	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Bromomethane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/01/2023 23:50	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Chloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Iodomethane	BRL	100		ug/L	359061	1	07/01/2023 23:50	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/01/2023 23:50	OM
Styrene	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Toluene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/01/2023 23:50	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/01/2023 23:50	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/01/2023 23:50	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-3
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 2:20:00 PM
<b>Lab ID:</b> 2306T46-020	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/01/2023 23:50	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/01/2023 23:50	OM
Surr: 4-Bromofluorobenzene	101	70-126		%REC	359061	1	07/01/2023 23:50	OM
Surr: Dibromofluoromethane	118	77-121		%REC	359061	1	07/01/2023 23:50	OM
Surr: Toluene-d8	105	78.6-119		%REC	359061	1	07/01/2023 23:50	OM

<b>Qualifiers:</b>	* 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:** 2306T46-021

**Client Sample ID:** GWC-4  
**Collection Date:** 6/20/2023 1:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/01/2023 23:02	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/01/2023 23:02	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
2-Butanone	BRL	100		ug/L	359061	1	07/01/2023 23:02	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/01/2023 23:02	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/01/2023 23:02	OM
Acetone	BRL	100		ug/L	359061	1	07/01/2023 23:02	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/01/2023 23:02	OM
Benzene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Bromoform	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Bromomethane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/01/2023 23:02	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Chloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Iodomethane	BRL	100		ug/L	359061	1	07/01/2023 23:02	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/01/2023 23:02	OM
Styrene	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Toluene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/01/2023 23:02	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/01/2023 23:02	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/01/2023 23:02	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 1:15:00 PM
<b>Lab ID:</b> 2306T46-021	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/01/2023 23:02	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/01/2023 23:02	OM
Surr: 4-Bromofluorobenzene	99.9	70-126		%REC	359061	1	07/01/2023 23:02	OM
Surr: Dibromofluoromethane	120	77-121		%REC	359061	1	07/01/2023 23:02	OM
Surr: Toluene-d8	108	78.6-119		%REC	359061	1	07/01/2023 23:02	OM

<b>Qualifiers:</b>	* 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:** 2306T46-022

**Client Sample ID:** GWC-5  
**Collection Date:** 6/20/2023 12:50:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 00:14	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 00:14	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 00:14	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 00:14	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 00:14	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 00:14	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 00:14	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 00:14	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 00:14	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 00:14	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 00:14	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 00:14	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 00:14	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-5
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 12:50:00 PM
<b>Lab ID:</b> 2306T46-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 00:14	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 00:14	OM
Surr: 4-Bromofluorobenzene	95.2	70-126		%REC	359061	1	07/02/2023 00:14	OM
Surr: Dibromofluoromethane	93.6	77-121		%REC	359061	1	07/02/2023 00:14	OM
Surr: Toluene-d8	99.9	78.6-119		%REC	359061	1	07/02/2023 00:14	OM

<b>Qualifiers:</b>	* 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:** 2306T46-023

**Client Sample ID:** GWC-6  
**Collection Date:** 6/20/2023 12:20:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 00:37	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 00:37	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 00:37	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 00:37	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 00:37	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 00:37	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 00:37	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 00:37	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 00:37	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 00:37	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 00:37	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 00:37	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 00:37	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-6
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 12:20:00 PM
<b>Lab ID:</b> 2306T46-023	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 00:37	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 00:37	OM
Surr: 4-Bromofluorobenzene	100	70-126		%REC	359061	1	07/02/2023 00:37	OM
Surr: Dibromofluoromethane	106	77-121		%REC	359061	1	07/02/2023 00:37	OM
Surr: Toluene-d8	101	78.6-119		%REC	359061	1	07/02/2023 00:37	OM

<b>Qualifiers:</b>	* 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:** 2306T46-024

**Client Sample ID:** GWC-7  
**Collection Date:** 6/20/2023 11:50:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 01:25	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 01:25	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 01:25	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 01:25	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 01:25	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 01:25	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 01:25	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 01:25	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 01:25	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 01:25	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 01:25	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 01:25	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 01:25	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-7
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 11:50:00 AM
<b>Lab ID:</b> 2306T46-024	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 01:25	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 01:25	OM
Surr: 4-Bromofluorobenzene	96.8	70-126		%REC	359061	1	07/02/2023 01:25	OM
Surr: Dibromofluoromethane	106	77-121		%REC	359061	1	07/02/2023 01:25	OM
Surr: Toluene-d8	99.5	78.6-119		%REC	359061	1	07/02/2023 01:25	OM

<b>Qualifiers:</b>	* 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:** 2306T46-025

**Client Sample ID:** GWC-18  
**Collection Date:** 6/20/2023 9:00:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 18:27	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 18:27	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 18:27	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 18:27	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 18:27	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 18:27	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 18:27	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 18:27	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 18:27	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 18:27	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 18:27	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 18:27	OM
cis-1,2-Dichloroethene	11	2.0		ug/L	359139	1	07/01/2023 18:27	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM

**Qualifiers:** \* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-18
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:00:00 AM
<b>Lab ID:</b> 2306T46-025	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 18:27	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 18:27	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 18:27	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 18:27	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 18:27	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Tetrachloroethene	2.9	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 18:27	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 18:27	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 18:27	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 18:27	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 18:27	OM
Surr: 4-Bromofluorobenzene	78.3	70-126		%REC	359139	1	07/01/2023 18:27	OM
Surr: Dibromofluoromethane	80.6	77-121		%REC	359139	1	07/01/2023 18:27	OM
Surr: Toluene-d8	86.6	78.6-119		%REC	359139	1	07/01/2023 18:27	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-19R
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 11:20:00 AM
<b>Lab ID:</b> 2306T46-026	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 18:50	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 18:50	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 18:50	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 18:50	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 18:50	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 18:50	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 18:50	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 18:50	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 18:50	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 18:50	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 18:50	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 18:50	OM
cis-1,2-Dichloroethene	3.0	2.0		ug/L	359139	1	07/01/2023 18:50	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM

<b>Qualifiers:</b>	* 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:** 2306T46-026

**Client Sample ID:** GWC-19R  
**Collection Date:** 6/20/2023 11:20:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 18:50	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 18:50	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 18:50	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 18:50	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 18:50	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 18:50	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 18:50	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 18:50	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 18:50	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 18:50	OM
Surr: 4-Bromofluorobenzene	85.7	70-126		%REC	359139	1	07/01/2023 18:50	OM
Surr: Dibromofluoromethane	91	77-121		%REC	359139	1	07/01/2023 18:50	OM
Surr: Toluene-d8	84.9	78.6-119		%REC	359139	1	07/01/2023 18:50	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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-22
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 10:55:00 AM
<b>Lab ID:</b> 2306T46-027	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 01:49	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 01:49	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 01:49	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 01:49	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 01:49	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 01:49	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 01:49	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 01:49	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 01:49	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 01:49	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 01:49	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 01:49	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 01:49	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-22
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 10:55:00 AM
<b>Lab ID:</b> 2306T46-027	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 01:49	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 01:49	OM
Surr: 4-Bromofluorobenzene	99.3	70-126		%REC	359061	1	07/02/2023 01:49	OM
Surr: Dibromofluoromethane	116	77-121		%REC	359061	1	07/02/2023 01:49	OM
Surr: Toluene-d8	104	78.6-119		%REC	359061	1	07/02/2023 01:49	OM

<b>Qualifiers:</b>	* 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:** 2306T46-028

**Client Sample ID:** AMW-4  
**Collection Date:** 6/20/2023 9:30:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 19:14	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 19:14	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 19:14	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 19:14	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 19:14	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 19:14	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 19:14	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 19:14	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 19:14	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 19:14	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 19:14	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 19:14	OM
cis-1,2-Dichloroethene	22	2.0		ug/L	359139	1	07/01/2023 19:14	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-4
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:30:00 AM
<b>Lab ID:</b> 2306T46-028	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 19:14	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 19:14	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 19:14	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 19:14	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 19:14	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Tetrachloroethene	3.2	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 19:14	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 19:14	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 19:14	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 19:14	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 19:14	OM
Surr: 4-Bromofluorobenzene	88.2	70-126		%REC	359139	1	07/01/2023 19:14	OM
Surr: Dibromofluoromethane	97.6	77-121		%REC	359139	1	07/01/2023 19:14	OM
Surr: Toluene-d8	85	78.6-119		%REC	359139	1	07/01/2023 19:14	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-4B
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 1:35:00 PM
<b>Lab ID:</b> 2306T46-029	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 02:13	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 02:13	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 02:13	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 02:13	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 02:13	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 02:13	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 02:13	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 02:13	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 02:13	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 02:13	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 02:13	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 02:13	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 02:13	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-4B
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 1:35:00 PM
<b>Lab ID:</b> 2306T46-029	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 02:13	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 02:13	OM
Surr: 4-Bromofluorobenzene	99.9	70-126		%REC	359061	1	07/02/2023 02:13	OM
Surr: Dibromofluoromethane	114	77-121		%REC	359061	1	07/02/2023 02:13	OM
Surr: Toluene-d8	103	78.6-119		%REC	359061	1	07/02/2023 02:13	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 2:35:00 PM
<b>Lab ID:</b> 2306T46-030	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 02:37	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 02:37	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 02:37	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 02:37	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 02:37	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 02:37	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 02:37	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 02:37	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 02:37	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 02:37	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 02:37	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 02:37	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 02:37	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 2:35:00 PM
<b>Lab ID:</b> 2306T46-030	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 02:37	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 02:37	OM
Surr: 4-Bromofluorobenzene	101	70-126		%REC	359061	1	07/02/2023 02:37	OM
Surr: Dibromofluoromethane	113	77-121		%REC	359061	1	07/02/2023 02:37	OM
Surr: Toluene-d8	103	78.6-119		%REC	359061	1	07/02/2023 02:37	OM

<b>Qualifiers:</b>	* 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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 3:00:00 PM
<b>Lab ID:</b> 2306T46-031	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 05:48	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 05:48	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 05:48	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 05:48	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 05:48	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 05:48	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 05:48	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 05:48	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 05:48	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 05:48	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 05:48	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 05:48	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 05:48	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 3:00:00 PM
<b>Lab ID:</b> 2306T46-031	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 05:48	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 05:48	OM
Surr: 4-Bromofluorobenzene	96.6	70-126		%REC	359061	1	07/02/2023 05:48	OM
Surr: Dibromofluoromethane	112	77-121		%REC	359061	1	07/02/2023 05:48	OM
Surr: Toluene-d8	102	78.6-119		%REC	359061	1	07/02/2023 05:48	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 3:15:00 PM
<b>Lab ID:</b> 2306T46-032	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 06:12	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 06:12	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 06:12	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 06:12	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 06:12	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 06:12	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 06:12	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 06:12	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 06:12	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 06:12	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 06:12	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 06:12	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 06:12	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 3:15:00 PM
<b>Lab ID:</b> 2306T46-032	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 06:12	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 06:12	OM
Surr: 4-Bromofluorobenzene	96.9	70-126		%REC	359061	1	07/02/2023 06:12	OM
Surr: Dibromofluoromethane	108	77-121		%REC	359061	1	07/02/2023 06:12	OM
Surr: Toluene-d8	99.7	78.6-119		%REC	359061	1	07/02/2023 06:12	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 3:50:00 PM
<b>Lab ID:</b> 2306T46-033	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 06:36	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 06:36	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 06:36	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 06:36	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 06:36	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 06:36	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 06:36	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 06:36	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 06:36	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 06:36	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 06:36	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 06:36	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 06:36	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 3:50:00 PM
<b>Lab ID:</b> 2306T46-033	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 06:36	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 06:36	OM
Surr: 4-Bromofluorobenzene	97	70-126		%REC	359061	1	07/02/2023 06:36	OM
Surr: Dibromofluoromethane	103	77-121		%REC	359061	1	07/02/2023 06:36	OM
Surr: Toluene-d8	98.4	78.6-119		%REC	359061	1	07/02/2023 06:36	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-4
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 4:25:00 PM
<b>Lab ID:</b> 2306T46-034	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 07:01	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 07:01	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 07:01	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 07:01	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 07:01	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 07:01	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 07:01	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 07:01	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 07:01	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 07:01	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 07:01	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 07:01	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 07:01	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-4
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 4:25:00 PM
<b>Lab ID:</b> 2306T46-034	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 07:01	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 07:01	OM
Surr: 4-Bromofluorobenzene	97.8	70-126		%REC	359061	1	07/02/2023 07:01	OM
Surr: Dibromofluoromethane	109	77-121		%REC	359061	1	07/02/2023 07:01	OM
Surr: Toluene-d8	101	78.6-119		%REC	359061	1	07/02/2023 07:01	OM

<b>Qualifiers:</b>	* 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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 4:40:00 PM
<b>Lab ID:</b> 2306T46-035	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 07:25	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 07:25	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 07:25	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 07:25	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 07:25	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 07:25	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 07:25	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 07:25	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 07:25	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 07:25	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 07:25	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 07:25	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 07:25	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/19/2023 4:40:00 PM
<b>Lab ID:</b> 2306T46-035	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 07:25	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 07:25	OM
Surr: 4-Bromofluorobenzene	95.9	70-126		%REC	359061	1	07/02/2023 07:25	OM
Surr: Dibromofluoromethane	96.5	77-121		%REC	359061	1	07/02/2023 07:25	OM
Surr: Toluene-d8	99.3	78.6-119		%REC	359061	1	07/02/2023 07:25	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-4
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 8:45:00 AM
<b>Lab ID:</b> 2306T46-036	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:12	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:12	AD
Barium	0.0226	0.0200		mg/L	358789	1	06/28/2023 20:12	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:12	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:12	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:12	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:12	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:12	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:12	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:12	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:12	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:12	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:12	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:12	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:12	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 8:55:00 AM
<b>Lab ID:</b> 2306T46-037	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:15	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:15	AD
Barium	0.0399	0.0200		mg/L	358789	1	06/28/2023 20:15	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:15	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:15	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:15	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:15	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:15	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:15	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:15	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:15	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:15	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:15	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:15	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:15	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:05:00 AM
<b>Lab ID:</b> 2306T46-038	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
<b>SW6020B</b>								
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:19	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:19	AD
Barium	0.0951	0.0200		mg/L	358789	1	06/28/2023 20:19	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:19	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:19	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:19	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:19	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:19	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:19	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:19	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:19	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:19	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:19	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:19	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:19	AD

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:15:00 AM
<b>Lab ID:</b> 2306T46-039	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
<b>SW6020B</b>								
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:22	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:22	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:22	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:22	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:22	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:22	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:22	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:22	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:22	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:22	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:22	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:22	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:22	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:22	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:22	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:25:00 AM
<b>Lab ID:</b> 2306T46-040	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:26	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:26	AD
Barium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:26	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:26	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:26	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:26	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:26	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:26	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:26	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:26	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:26	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:26	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:26	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:26	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:26	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:30:00 AM
<b>Lab ID:</b> 2306T46-041	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358789	1	06/28/2023 20:30	AD
Arsenic	BRL	0.0100		mg/L	358789	1	06/28/2023 20:30	AD
Barium	0.0363	0.0200		mg/L	358789	1	06/28/2023 20:30	AD
Beryllium	BRL	0.00300		mg/L	358789	1	06/28/2023 20:30	AD
Cadmium	BRL	0.00500		mg/L	358789	1	06/28/2023 20:30	AD
Chromium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:30	AD
Cobalt	BRL	0.0400		mg/L	358789	1	06/28/2023 20:30	AD
Copper	BRL	0.0200		mg/L	358789	1	06/28/2023 20:30	AD
Lead	BRL	0.0150		mg/L	358789	1	06/28/2023 20:30	AD
Nickel	BRL	0.0200		mg/L	358789	1	06/28/2023 20:30	AD
Selenium	BRL	0.0100		mg/L	358789	1	06/28/2023 20:30	AD
Silver	BRL	0.0100		mg/L	358789	1	06/28/2023 20:30	AD
Thallium	BRL	0.00200		mg/L	358789	1	06/28/2023 20:30	AD
Vanadium	BRL	0.0200		mg/L	358789	1	06/28/2023 20:30	AD
Zinc	BRL	0.0200		mg/L	358789	1	06/28/2023 20:30	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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 11:55:00 AM
<b>Lab ID:</b> 2306T46-042	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 07:48	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 07:48	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 07:48	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 07:48	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 07:48	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 07:48	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 07:48	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 07:48	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 07:48	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 07:48	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 07:48	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 07:48	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 07:48	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 11:55:00 AM
<b>Lab ID:</b> 2306T46-042	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 07:48	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 07:48	OM
Surr: 4-Bromofluorobenzene	99.8	70-126		%REC	359061	1	07/02/2023 07:48	OM
Surr: Dibromofluoromethane	112	77-121		%REC	359061	1	07/02/2023 07:48	OM
Surr: Toluene-d8	103	78.6-119		%REC	359061	1	07/02/2023 07:48	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-5
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:55:00 AM
<b>Lab ID:</b> 2306T46-043	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 19:37	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 19:37	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 19:37	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 19:37	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 19:37	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 19:37	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 19:37	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 19:37	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 19:37	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 19:37	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 19:37	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 19:37	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-5
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:55:00 AM
<b>Lab ID:</b> 2306T46-043	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 19:37	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 19:37	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 19:37	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 19:37	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 19:37	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 19:37	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 19:37	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 19:37	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 19:37	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 19:37	OM
Surr: 4-Bromofluorobenzene	82.8	70-126		%REC	359139	1	07/01/2023 19:37	OM
Surr: Dibromofluoromethane	90.2	77-121		%REC	359139	1	07/01/2023 19:37	OM
Surr: Toluene-d8	86	78.6-119		%REC	359139	1	07/01/2023 19:37	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-14
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 10:20:00 AM
<b>Lab ID:</b> 2306T46-044	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 20:01	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 20:01	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 20:01	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 20:01	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 20:01	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 20:01	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 20:01	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 20:01	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 20:01	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 20:01	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 20:01	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 20:01	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 20:01	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 20:01	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-14
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 10:20:00 AM
<b>Lab ID:</b> 2306T46-044	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							

**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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> FIELD BLANK -1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 4:20:00 PM
<b>Lab ID:</b> 2306T46-045	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359061	1	07/02/2023 05:25	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359061	1	07/02/2023 05:25	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
2-Butanone	BRL	100		ug/L	359061	1	07/02/2023 05:25	OM
2-Hexanone	BRL	50		ug/L	359061	1	07/02/2023 05:25	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359061	1	07/02/2023 05:25	OM
Acetone	BRL	100		ug/L	359061	1	07/02/2023 05:25	OM
Acrylonitrile	BRL	50		ug/L	359061	1	07/02/2023 05:25	OM
Benzene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Bromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Bromodichloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Bromoform	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Bromomethane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Carbon disulfide	BRL	5.0		ug/L	359061	1	07/02/2023 05:25	OM
Carbon tetrachloride	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Chlorobenzene	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Chloroethane	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Chloroform	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Chloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Dibromochloromethane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Dibromomethane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Ethylbenzene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Iodomethane	BRL	100		ug/L	359061	1	07/02/2023 05:25	OM
Methylene chloride	BRL	5.0		ug/L	359061	1	07/02/2023 05:25	OM
Styrene	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Tetrachloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Toluene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359061	1	07/02/2023 05:25	OM
Trichloroethene	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Trichlorofluoromethane	BRL	10		ug/L	359061	1	07/02/2023 05:25	OM
Vinyl acetate	BRL	100		ug/L	359061	1	07/02/2023 05:25	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> FIELD BLANK -1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 4:20:00 PM
<b>Lab ID:</b> 2306T46-045	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359061	1	07/02/2023 05:25	OM
Xylenes, Total	BRL	5.0		ug/L	359061	1	07/02/2023 05:25	OM
Surr: 4-Bromofluorobenzene	95.8	70-126		%REC	359061	1	07/02/2023 05:25	OM
Surr: Dibromofluoromethane	92.3	77-121		%REC	359061	1	07/02/2023 05:25	OM
Surr: Toluene-d8	99.8	78.6-119		%REC	359061	1	07/02/2023 05:25	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/28/2023 23:27	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/28/2023 23:27	AD
Barium	BRL	0.0200		mg/L	358790	1	06/28/2023 23:27	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/28/2023 23:27	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/28/2023 23:27	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/28/2023 23:27	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/28/2023 23:27	AD
Copper	BRL	0.0200		mg/L	358790	1	06/28/2023 23:27	AD
Lead	BRL	0.0150		mg/L	358790	1	06/28/2023 23:27	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/28/2023 23:27	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/28/2023 23:27	AD
Silver	BRL	0.0100		mg/L	358790	1	06/28/2023 23:27	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/28/2023 23:27	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/28/2023 23:27	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/28/2023 23:27	AD

<b>Qualifiers:</b>	* 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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 11:50:00 AM
<b>Lab ID:</b> 2306T46-046	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 18:49	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 18:49	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 18:49	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 18:49	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 18:49	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 18:49	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 18:49	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 18:49	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 18:49	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 18:49	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 18:49	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 18:49	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 18:49	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 11:50:00 AM
<b>Lab ID:</b> 2306T46-046	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 18:49	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 18:49	OM
Surr: 4-Bromofluorobenzene	99.8	70-126		%REC	359059	1	06/30/2023 18:49	OM
Surr: Dibromofluoromethane	104	77-121		%REC	359059	1	06/30/2023 18:49	OM
Surr: Toluene-d8	99.2	78.6-119		%REC	359059	1	06/30/2023 18:49	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 12:45:00 PM
<b>Lab ID:</b> 2306T46-047	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 20:53	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 20:53	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 20:53	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 20:53	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 20:53	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 20:53	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 20:53	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 20:53	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 20:53	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 20:53	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 20:53	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 20:53	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 20:53	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 12:45:00 PM
<b>Lab ID:</b> 2306T46-047	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 20:53	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 20:53	OM
Surr: 4-Bromofluorobenzene	96.8	70-126		%REC	359059	1	06/30/2023 20:53	OM
Surr: Dibromofluoromethane	104	77-121		%REC	359059	1	06/30/2023 20:53	OM
Surr: Toluene-d8	99.5	78.6-119		%REC	359059	1	06/30/2023 20:53	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 1:10:00 PM
<b>Lab ID:</b> 2306T46-048	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 21:17	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 21:17	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 21:17	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 21:17	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 21:17	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 21:17	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 21:17	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 21:17	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 21:17	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 21:17	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 21:17	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 21:17	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 21:17	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 1:10:00 PM
<b>Lab ID:</b> 2306T46-048	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 21:17	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 21:17	OM
Surr: 4-Bromofluorobenzene	101	70-126		%REC	359059	1	06/30/2023 21:17	OM
Surr: Dibromofluoromethane	114	77-121		%REC	359059	1	06/30/2023 21:17	OM
Surr: Toluene-d8	104	78.6-119		%REC	359059	1	06/30/2023 21:17	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 2:15:00 PM
<b>Lab ID:</b> 2306T46-049	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 21:41	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 21:41	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 21:41	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 21:41	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 21:41	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 21:41	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 21:41	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 21:41	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
cis-1,2-Dichloroethene	2.7	2.0		ug/L	359059	1	06/30/2023 21:41	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 21:41	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 21:41	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 21:41	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 21:41	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 21:41	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-8
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 2:15:00 PM
<b>Lab ID:</b>	2306T46-049	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 21:41	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 21:41	OM
Surr: 4-Bromofluorobenzene	97.8	70-126		%REC	359059	1	06/30/2023 21:41	OM
Surr: Dibromofluoromethane	102	77-121		%REC	359059	1	06/30/2023 21:41	OM
Surr: Toluene-d8	97.8	78.6-119		%REC	359059	1	06/30/2023 21:41	OM

<b>Qualifiers:</b>	* 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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 2:45:00 PM
<b>Lab ID:</b> 2306T46-050	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 20:24	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 20:24	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 20:24	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 20:24	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 20:24	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 20:24	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 20:24	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 20:24	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 20:24	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 20:24	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 20:24	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 20:24	OM
cis-1,2-Dichloroethene	23	2.0		ug/L	359139	1	07/01/2023 20:24	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-8A
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 2:45:00 PM
<b>Lab ID:</b>	2306T46-050	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 20:24	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 20:24	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 20:24	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 20:24	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 20:24	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 20:24	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 20:24	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 20:24	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 20:24	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 20:24	OM
Surr: 4-Bromofluorobenzene	81.9	70-126		%REC	359139	1	07/01/2023 20:24	OM
Surr: Dibromofluoromethane	92	77-121		%REC	359139	1	07/01/2023 20:24	OM
Surr: Toluene-d8	84.7	78.6-119		%REC	359139	1	07/01/2023 20:24	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 3:30:00 PM
<b>Lab ID:</b> 2306T46-051	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 22:04	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 22:04	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 22:04	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 22:04	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 22:04	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 22:04	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 22:04	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 22:04	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 22:04	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 22:04	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 22:04	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 22:04	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 22:04	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-23
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 3:30:00 PM
<b>Lab ID:</b>	2306T46-051	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 22:04	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 22:04	OM
Surr: 4-Bromofluorobenzene	100	70-126		%REC	359059	1	06/30/2023 22:04	OM
Surr: Dibromofluoromethane	114	77-121		%REC	359059	1	06/30/2023 22:04	OM
Surr: Toluene-d8	103	78.6-119		%REC	359059	1	06/30/2023 22:04	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-052

**Client Sample ID:** GWC-23A  
**Collection Date:** 6/21/2023 3:45:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 22:28	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 22:28	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 22:28	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 22:28	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 22:28	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 22:28	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 22:28	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 22:28	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 22:28	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 22:28	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 22:28	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 22:28	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 22:28	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 3:45:00 PM
<b>Lab ID:</b> 2306T46-052	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 22:28	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 22:28	OM
Surr: 4-Bromofluorobenzene	95.8	70-126		%REC	359059	1	06/30/2023 22:28	OM
Surr: Dibromofluoromethane	91.6	77-121		%REC	359059	1	06/30/2023 22:28	OM
Surr: Toluene-d8	98.3	78.6-119		%REC	359059	1	06/30/2023 22:28	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 10:20:00 AM
<b>Lab ID:</b> 2306T46-053	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
<b>SW6020B</b>								
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/28/2023 23:45	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/28/2023 23:45	AD
Barium	0.0246	0.0200		mg/L	358790	1	06/28/2023 23:45	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/28/2023 23:45	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/28/2023 23:45	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/28/2023 23:45	AD
Cobalt	0.0672	0.0400		mg/L	358790	1	06/28/2023 23:45	AD
Copper	BRL	0.0200		mg/L	358790	1	06/28/2023 23:45	AD
Lead	BRL	0.0150		mg/L	358790	1	06/28/2023 23:45	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/28/2023 23:45	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/28/2023 23:45	AD
Silver	BRL	0.0100		mg/L	358790	1	06/28/2023 23:45	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/28/2023 23:45	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/28/2023 23:45	AD
Zinc	0.0316	0.0200		mg/L	359151	1	07/05/2023 14:53	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:55:00 AM
<b>Lab ID:</b> 2306T46-054	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/28/2023 23:48	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/28/2023 23:48	AD
Barium	0.0451	0.0200		mg/L	358790	1	06/28/2023 23:48	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/28/2023 23:48	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/28/2023 23:48	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/28/2023 23:48	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/28/2023 23:48	AD
Copper	BRL	0.0200		mg/L	358790	1	06/28/2023 23:48	AD
Lead	BRL	0.0150		mg/L	358790	1	06/28/2023 23:48	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/28/2023 23:48	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/28/2023 23:48	AD
Silver	BRL	0.0100		mg/L	358790	1	06/28/2023 23:48	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/28/2023 23:48	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/28/2023 23:48	AD
Zinc	BRL	0.0200		mg/L	359151	1	07/05/2023 15:05	AD

<b>Qualifiers:</b>	* 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



<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	PH1-GWB-2
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 10:00:00 AM
<b>Lab ID:</b>	2306T46-055	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:13	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:13	AD
Barium	0.0202	0.0200		mg/L	358790	1	06/29/2023 00:13	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:13	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:13	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:13	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:13	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:13	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:13	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 00:13	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:13	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:13	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:13	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:13	AD
Zinc	0.0290	0.0200		mg/L	359151	1	07/05/2023 15:08	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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	AMW-9
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 10:05:00 AM
<b>Lab ID:</b>	2306T46-056	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:17	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:17	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:17	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:17	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:17	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:17	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:17	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:17	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:17	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 00:17	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:17	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:17	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:17	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:17	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 00:17	AD

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 10:15:00 AM
<b>Lab ID:</b> 2306T46-057	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:21	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:21	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:21	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:21	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:21	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:21	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:21	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:21	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:21	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 00:21	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:21	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:21	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:21	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:21	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 00:21	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-058

**Client Sample ID:** GWC-11  
**Collection Date:** 6/20/2023 3:50:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 22:51	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 22:51	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 22:51	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 22:51	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 22:51	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 22:51	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 22:51	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 22:51	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 22:51	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 22:51	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 22:51	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 22:51	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 22:51	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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-11
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/20/2023 3:50:00 PM
<b>Lab ID:</b>	2306T46-058	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 22:51	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 22:51	OM
Surr: 4-Bromofluorobenzene	99.9	70-126		%REC	359059	1	06/30/2023 22:51	OM
Surr: Dibromofluoromethane	107	77-121		%REC	359059	1	06/30/2023 22:51	OM
Surr: Toluene-d8	100	78.6-119		%REC	359059	1	06/30/2023 22:51	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-11
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 10:25:00 AM
<b>Lab ID:</b> 2306T46-059	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:24	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:24	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:24	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:24	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:24	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:24	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:24	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:24	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:24	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 00:24	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:24	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:24	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:24	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:24	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 00:24	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:** 2306T46-060

**Client Sample ID:** GWC-9  
**Collection Date:** 6/20/2023 4:30:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 23:15	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 23:15	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 23:15	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 23:15	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 23:15	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 23:15	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 23:15	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 23:15	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 23:15	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 23:15	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 23:15	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 23:15	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 23:15	OM

**Qualifiers:** \* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

F Analyzed in the lab which is a deviation from the method

< Less than Result value

J Estimated value detected below Reporting Limit

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-9
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/20/2023 4:30:00 PM
<b>Lab ID:</b>	2306T46-060	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 23:15	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 23:15	OM
Surr: 4-Bromofluorobenzene	97.5	70-126		%REC	359059	1	06/30/2023 23:15	OM
Surr: Dibromofluoromethane	107	77-121		%REC	359059	1	06/30/2023 23:15	OM
Surr: Toluene-d8	98.1	78.6-119		%REC	359059	1	06/30/2023 23:15	OM

**Qualifiers:**

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

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



<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-9
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 10:45:00 AM
<b>Lab ID:</b>	2306T46-061	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:28	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:28	AD
Barium	0.0696	0.0200		mg/L	358790	1	06/29/2023 00:28	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:28	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:28	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:28	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:28	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:28	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:28	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 00:28	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:28	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:28	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:28	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:28	AD
Zinc	0.0404	0.0200		mg/L	359151	1	07/05/2023 15:25	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:** 2306T46-062

**Client Sample ID:** GWC-14R  
**Collection Date:** 6/21/2023 12:40:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,1-Dichloroethane	11	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 20:48	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 20:48	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 20:48	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 20:48	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 20:48	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 20:48	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 20:48	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 20:48	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 20:48	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 20:48	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 20:48	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 20:48	OM
cis-1,2-Dichloroethene	20	2.0		ug/L	359139	1	07/01/2023 20:48	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-062

**Client Sample ID:** GWC-14R  
**Collection Date:** 6/21/2023 12:40:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>						
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 20:48	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 20:48	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 20:48	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 20:48	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 20:48	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 20:48	OM
Trichloroethene	2.3	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 20:48	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 20:48	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 20:48	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 20:48	OM
Surr: 4-Bromofluorobenzene	78.3	70-126		%REC	359139	1	07/01/2023 20:48	OM
Surr: Dibromofluoromethane	81.9	77-121		%REC	359139	1	07/01/2023 20:48	OM
Surr: Toluene-d8	85.6	78.6-119		%REC	359139	1	07/01/2023 20:48	OM
<b>SIM Semivolatile Organics by SW8270E</b>								
					<b>(SW3510C)</b>			
Hexachlorobenzene	BRL	1.0		ug/L	358744	1	06/28/2023 14:41	DS
Surr: 4-Terphenyl-d14	108	64.1-136		%REC	358744	1	06/28/2023 14:41	DS
<b>SIM Polynuclear Aromatic Hydrocarbons</b>		<b>SW8270E</b>						
					<b>(SW3510C)</b>			
Benzo(a)pyrene	BRL	0.20		ug/L	358744	1	06/28/2023 14:41	DS
Surr: 4-Terphenyl-d14	108	64.1-136		%REC	358744	1	06/28/2023 14:41	DS
<b>Semivolatile Org. Comp. by GC/MS</b>		<b>SW8270E</b>						
					<b>(SW3510C)</b>			
1,3,5-Trinitrobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
3,3'-Dimethoxybenzidine	BRL	5.0	N	ug/L	358586	1	06/30/2023 17:04	YH
4-Nitroquinoline,1-oxide	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
Aramite	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Dimethylaminoazobenzene	BRL	5.0	N	ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosomorpholine	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Tetraethyl dithiopyrophosphate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Surr: 2,4,6-Tribromophenol	63	48-133		%REC	358586	1	06/30/2023 17:04	YH
Surr: 2-Fluorobiphenyl	77.2	46.7-118		%REC	358586	1	06/30/2023 17:04	YH
Surr: 2-Fluorophenol	34.9	28.5-120		%REC	358586	1	06/30/2023 17:04	YH
Surr: 4-Terphenyl-d14	83.9	45.2-127		%REC	358586	1	06/30/2023 17:04	YH
Surr: Nitrobenzene-d5	86.4	40.9-119		%REC	358586	1	06/30/2023 17:04	YH
Surr: Phenol-d5	22.2	20-63		%REC	358586	1	06/30/2023 17:04	YH

**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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14R
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 12:40:00 PM
<b>Lab ID:</b> 2306T46-062	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
1,2,4,5-Tetrachlorobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
1,3-Dinitrobenzene	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
1,4-Napthoquinone	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
1-Naphthylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2,3,4,6-Tetrachlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2,4,5-Trichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2,4,6-Trichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2,4-Dichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2,4-Dimethylphenol	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
2,4-Dinitrophenol	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
2,4-Dinitrotoluene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2,6-Dichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2,6-Dinitrotoluene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2-Acetylaminofluorene	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
2-Chloronaphthalene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2-Chlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2-Methylnaphthalene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2-Methylphenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2-Naphthylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
2-Nitroaniline	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
2-Nitrophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
3,3'-Dimethylbenzidine	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
3,4-Methylphenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
3-Methylcholanthrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
3-Nitroaniline	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
4-Aminobiphenyl	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
4-Bromophenyl phenyl ether	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
4-Chloroaniline	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
4-Chlorophenyl phenyl ether	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
4-Nitroaniline	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
4-Nitrophenol	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
5-Nitro-o-toluidine	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
7,12-Dimethylbenz(a)anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Acenaphthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Acenaphthylene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Acetophenone	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Benz(a)anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Benzo(b)fluoranthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Benzo(g,h,i)perylene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Benzo(k)fluoranthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Benzyl alcohol	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH

<b>Qualifiers:</b>	* 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:** 2306T46-062

**Client Sample ID:** GWC-14R  
**Collection Date:** 6/21/2023 12:40:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
Bis(2-chloroethoxy)methane	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Bis(2-chloroethyl)ether	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Butyl benzyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Chlorobenzilate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Chrysene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Di-n-butyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Di-n-octyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Diallate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Dibenz(a,h)anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Dibenzofuran	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Diethyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Dimethoate	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Dimethyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Disulfoton	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Ethyl methanesulfonate	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Famphur	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Fluoranthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Fluorene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Hexachlorobutadiene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Hexachlorocyclopentadiene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Hexachloroethane	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Hexachloropropene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Indeno(1,2,3-cd)pyrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Isodrin	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Isophorone	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Isosafrole	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Kepone	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
Methapyrilene	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Methyl methanesulfonate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Methyl parathion	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitroso-di-n-butylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosodi-n-propylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosodiethylamine	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosodimethylamine	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosodiphenylamine	BRL	25		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosomethylethylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosopiperidine	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
N-Nitrosopyrrolidine	BRL	20		ug/L	358586	1	06/30/2023 17:04	YH
Nitrobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
O,O,O-Triethylphosphorothioate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
o-Toluidine	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
p-Phenylenediamine	BRL	250		ug/L	358586	1	06/30/2023 17:04	YH
Parathion	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Pentachlorobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH

**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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14R
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 12:40:00 PM
<b>Lab ID:</b> 2306T46-062	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
Pentachloronitrobenzene	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Phenacetin	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Phenanthrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Phenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Phorate	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Pronamide	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Pyrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Safrole	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Sym-Trinitrobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:04	YH
Thionazin	BRL	10		ug/L	358586	1	06/30/2023 17:04	YH
Surr: 2,4,6-Tribromophenol	63	48-133		%REC	358586	1	06/30/2023 17:04	YH
Surr: 2-Fluorobiphenyl	77.2	46.7-118		%REC	358586	1	06/30/2023 17:04	YH
Surr: 2-Fluorophenol	34.9	28.5-120		%REC	358586	1	06/30/2023 17:04	YH
Surr: 4-Terphenyl-d14	83.9	45.2-127		%REC	358586	1	06/30/2023 17:04	YH
Surr: Nitrobenzene-d5	86.4	40.9-119		%REC	358586	1	06/30/2023 17:04	YH
Surr: Phenol-d5	22.2	20-120		%REC	358586	1	06/30/2023 17:04	YH

<b>Qualifiers:</b>	* 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:** 2306T46-063

**Client Sample ID:** GWA-1A  
**Collection Date:** 6/22/2023 10:10:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	06/30/2023 23:39	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	06/30/2023 23:39	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
2-Butanone	BRL	100		ug/L	359059	1	06/30/2023 23:39	OM
2-Hexanone	BRL	50		ug/L	359059	1	06/30/2023 23:39	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	06/30/2023 23:39	OM
Acetone	BRL	100		ug/L	359059	1	06/30/2023 23:39	OM
Acrylonitrile	BRL	50		ug/L	359059	1	06/30/2023 23:39	OM
Benzene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Bromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Bromoform	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Bromomethane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	06/30/2023 23:39	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Chlorobenzene	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Chloroethane	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Chloroform	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Chloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Dibromomethane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Iodomethane	BRL	100		ug/L	359059	1	06/30/2023 23:39	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	06/30/2023 23:39	OM
Styrene	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Toluene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	06/30/2023 23:39	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	06/30/2023 23:39	OM
Vinyl acetate	BRL	100		ug/L	359059	1	06/30/2023 23:39	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.  
**Project Name** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-063

**Client Sample ID:** GWA-1A  
**Collection Date:** 6/22/2023 10:10:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	06/30/2023 23:39	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	06/30/2023 23:39	OM
Surr: 4-Bromofluorobenzene	96	70-126		%REC	359059	1	06/30/2023 23:39	OM
Surr: Dibromofluoromethane	96.5	77-121		%REC	359059	1	06/30/2023 23:39	OM
Surr: Toluene-d8	95.6	78.6-119		%REC	359059	1	06/30/2023 23:39	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:31	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:31	AD
Barium	0.0338	0.0200		mg/L	358790	1	06/29/2023 00:31	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:31	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:31	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:31	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:31	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:31	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:31	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 00:31	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:31	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:31	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:31	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:31	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 00:31	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:** 2306T46-064

**Client Sample ID:** GWC-8R  
**Collection Date:** 6/21/2023 3:20:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,1-Dichloroethane	9.8	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 21:12	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 21:12	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 21:12	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 21:12	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 21:12	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 21:12	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 21:12	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 21:12	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 21:12	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 21:12	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 21:12	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 21:12	OM
cis-1,2-Dichloroethene	28	2.0		ug/L	359139	1	07/01/2023 21:12	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-064

**Client Sample ID:** GWC-8R  
**Collection Date:** 6/21/2023 3:20:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>						
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 21:12	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 21:12	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 21:12	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 21:12	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 21:12	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 21:12	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 21:12	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 21:12	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 21:12	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 21:12	OM
Surr: 4-Bromofluorobenzene	85.8	70-126		%REC	359139	1	07/01/2023 21:12	OM
Surr: Dibromofluoromethane	92.9	77-121		%REC	359139	1	07/01/2023 21:12	OM
Surr: Toluene-d8	84.8	78.6-119		%REC	359139	1	07/01/2023 21:12	OM
<b>SIM Semivolatile Organics by SW8270E</b>								
					<b>(SW3510C)</b>			
Hexachlorobenzene	BRL	1.0		ug/L	358744	1	06/28/2023 15:51	DS
Surr: 4-Terphenyl-d14	109	64.1-136		%REC	358744	1	06/28/2023 15:51	DS
<b>SIM Polynuclear Aromatic Hydrocarbons</b>		<b>SW8270E</b>						
					<b>(SW3510C)</b>			
Benzo(a)pyrene	BRL	0.20		ug/L	358744	1	06/28/2023 15:51	DS
Surr: 4-Terphenyl-d14	109	64.1-136		%REC	358744	1	06/28/2023 15:51	DS
<b>Semivolatile Org. Comp. by GC/MS</b>		<b>SW8270E</b>						
					<b>(SW3510C)</b>			
1,3,5-Trinitrobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
3,3'-Dimethoxybenzidine	BRL	5.0	N	ug/L	358586	1	06/30/2023 17:34	YH
4-Nitroquinoline,1-oxide	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
Aramite	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Dimethylaminoazobenzene	BRL	5.0	N	ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosomorpholine	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Tetraethyl dithiopyrophosphate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Surr: 2,4,6-Tribromophenol	60.6	48-133		%REC	358586	1	06/30/2023 17:34	YH
Surr: 2-Fluorobiphenyl	79.7	46.7-118		%REC	358586	1	06/30/2023 17:34	YH
Surr: 2-Fluorophenol	33.6	28.5-120		%REC	358586	1	06/30/2023 17:34	YH
Surr: 4-Terphenyl-d14	85.4	45.2-127		%REC	358586	1	06/30/2023 17:34	YH
Surr: Nitrobenzene-d5	85.7	40.9-119		%REC	358586	1	06/30/2023 17:34	YH
Surr: Phenol-d5	21.7	20-63		%REC	358586	1	06/30/2023 17:34	YH

**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:** 2306T46-064

**Client Sample ID:** GWC-8R  
**Collection Date:** 6/21/2023 3:20:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
1,2,4,5-Tetrachlorobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
1,3-Dinitrobenzene	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
1,4-Napthoquinone	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
1-Naphthylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2,3,4,6-Tetrachlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2,4,5-Trichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2,4,6-Trichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2,4-Dichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2,4-Dimethylphenol	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
2,4-Dinitrophenol	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
2,4-Dinitrotoluene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2,6-Dichlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2,6-Dinitrotoluene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2-Acetylaminofluorene	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
2-Chloronaphthalene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2-Chlorophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2-Methylnaphthalene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2-Methylphenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2-Naphthylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
2-Nitroaniline	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
2-Nitrophenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
3,3'-Dimethylbenzidine	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
3,4-Methylphenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
3-Methylcholanthrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
3-Nitroaniline	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
4-Aminobiphenyl	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
4-Bromophenyl phenyl ether	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
4-Chloroaniline	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
4-Chlorophenyl phenyl ether	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
4-Nitroaniline	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
4-Nitrophenol	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
5-Nitro-o-toluidine	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
7,12-Dimethylbenz(a)anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Acenaphthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Acenaphthylene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Acetophenone	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Benz(a)anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Benzo(b)fluoranthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Benzo(g,h,i)perylene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Benzo(k)fluoranthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Benzyl alcohol	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH

**Qualifiers:** \* Value exceeds maximum contaminant level

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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:** 2306T46-064

**Client Sample ID:** GWC-8R  
**Collection Date:** 6/21/2023 3:20:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
Bis(2-chloroethoxy)methane	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Bis(2-chloroethyl)ether	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Butyl benzyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Chlorobenzilate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Chrysene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Di-n-butyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Di-n-octyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Diallate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Dibenz(a,h)anthracene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Dibenzofuran	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Diethyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Dimethoate	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Dimethyl phthalate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Disulfoton	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Ethyl methanesulfonate	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Famphur	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Fluoranthene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Fluorene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Hexachlorobutadiene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Hexachlorocyclopentadiene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Hexachloroethane	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Hexachloropropene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Indeno(1,2,3-cd)pyrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Isodrin	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Isophorone	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Isosafrole	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Kepone	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
Methapyrilene	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Methyl methanesulfonate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Methyl parathion	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitroso-di-n-butylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosodi-n-propylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosodiethylamine	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosodimethylamine	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosodiphenylamine	BRL	25		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosomethylethylamine	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosopiperidine	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
N-Nitrosopyrrolidine	BRL	20		ug/L	358586	1	06/30/2023 17:34	YH
Nitrobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
O,O,O-Triethylphosphorothioate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
o-Toluidine	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
p-Phenylenediamine	BRL	250		ug/L	358586	1	06/30/2023 17:34	YH
Parathion	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Pentachlorobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH

**Qualifiers:** \* Value exceeds maximum contaminant level

BRL Below reporting limit

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> Greater than Result value

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F Analyzed in the lab which is a deviation from the method

< Less than Result value

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8R
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 3:20:00 PM
<b>Lab ID:</b> 2306T46-064	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
Pentachloronitrobenzene	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Phenacetin	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Phenanthrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Phenol	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Phorate	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Pronamide	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Pyrene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Safrole	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Sym-Trinitrobenzene	BRL	5.0		ug/L	358586	1	06/30/2023 17:34	YH
Thionazin	BRL	10		ug/L	358586	1	06/30/2023 17:34	YH
Surr: 2,4,6-Tribromophenol	60.6	48-133		%REC	358586	1	06/30/2023 17:34	YH
Surr: 2-Fluorobiphenyl	79.7	46.7-118		%REC	358586	1	06/30/2023 17:34	YH
Surr: 2-Fluorophenol	33.6	28.5-120		%REC	358586	1	06/30/2023 17:34	YH
Surr: 4-Terphenyl-d14	85.4	45.2-127		%REC	358586	1	06/30/2023 17:34	YH
Surr: Nitrobenzene-d5	85.7	40.9-119		%REC	358586	1	06/30/2023 17:34	YH
Surr: Phenol-d5	21.7	20-120		%REC	358586	1	06/30/2023 17:34	YH

**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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 4:45:00 PM
<b>Lab ID:</b> 2306T46-065	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/02/2023 20:53	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/02/2023 20:53	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
2-Butanone	BRL	100		ug/L	359139	1	07/02/2023 20:53	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/02/2023 20:53	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/02/2023 20:53	OM
Acetone	BRL	100		ug/L	359139	1	07/02/2023 20:53	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/02/2023 20:53	OM
Acrolein	BRL	50		ug/L	359139	1	07/02/2023 20:53	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/02/2023 20:53	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/02/2023 20:53	OM
Benzene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Bromoform	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Bromomethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/02/2023 20:53	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Chloromethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Chloroprene	BRL	20		ug/L	359139	1	07/02/2023 20:53	OM
cis-1,2-Dichloroethene	16	2.0		ug/L	359139	1	07/02/2023 20:53	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	PH1-GWA-2
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 4:45:00 PM
<b>Lab ID:</b>	2306T46-065	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/02/2023 20:53	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/02/2023 20:53	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/02/2023 20:53	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/02/2023 20:53	OM
Naphthalene	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Propionitrile	BRL	100		ug/L	359139	1	07/02/2023 20:53	OM
Styrene	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Toluene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/02/2023 20:53	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/02/2023 20:53	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/02/2023 20:53	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/02/2023 20:53	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/02/2023 20:53	OM
Surr: 4-Bromofluorobenzene	81.2	70-126		%REC	359139	1	07/02/2023 20:53	OM
Surr: Dibromofluoromethane	82.2	77-121		%REC	359139	1	07/02/2023 20:53	OM
Surr: Toluene-d8	92.9	78.6-119		%REC	359139	1	07/02/2023 20:53	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 9:45:00 AM
<b>Lab ID:</b> 2306T46-066	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:35	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:35	AD
Barium	0.0485	0.0200		mg/L	358790	1	06/29/2023 00:35	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:35	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:35	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:35	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:35	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:35	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:35	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 00:35	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:35	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:35	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:35	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:35	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 00:35	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:** 2306T46-067

**Client Sample ID:** PH1-GWC-2  
**Collection Date:** 6/22/2023 12:00:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 21:59	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 21:59	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 21:59	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 21:59	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 21:59	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 21:59	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 21:59	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 21:59	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 21:59	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 21:59	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 21:59	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 21:59	OM
cis-1,2-Dichloroethene	7.0	2.0		ug/L	359139	1	07/01/2023 21:59	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 12:00:00 PM
<b>Lab ID:</b> 2306T46-067	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>		<b>(SW5030B)</b>				
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 21:59	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 21:59	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 21:59	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 21:59	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 21:59	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Tetrachloroethene	2.9	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 21:59	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 21:59	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 21:59	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 21:59	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 21:59	OM
Surr: 4-Bromofluorobenzene	81.5	70-126		%REC	359139	1	07/01/2023 21:59	OM
Surr: Dibromofluoromethane	80.9	77-121		%REC	359139	1	07/01/2023 21:59	OM
Surr: Toluene-d8	85.2	78.6-119		%REC	359139	1	07/01/2023 21:59	OM

<b>APPENDIX I METALS</b>		<b>SW6020B</b>		<b>(SW3005A)</b>				
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 00:38	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 00:38	AD
Barium	0.0485	0.0200		mg/L	358790	1	06/29/2023 00:38	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 00:38	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 00:38	AD
Chromium	0.0370	0.0100		mg/L	358790	1	06/29/2023 00:38	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 00:38	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 00:38	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 00:38	AD
Nickel	0.0253	0.0200		mg/L	358790	1	06/29/2023 00:38	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 00:38	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 00:38	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 00:38	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 00:38	AD
Zinc	0.0373	0.0200		mg/L	359151	1	07/05/2023 15:27	AD

<b>Qualifiers:</b>	* 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:** 2306T46-068

**Client Sample ID:** PH1-GWA-1A  
**Collection Date:** 6/22/2023 3:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	07/01/2023 00:03	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	07/01/2023 00:03	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
2-Butanone	BRL	100		ug/L	359059	1	07/01/2023 00:03	OM
2-Hexanone	BRL	50		ug/L	359059	1	07/01/2023 00:03	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	07/01/2023 00:03	OM
Acetone	BRL	100		ug/L	359059	1	07/01/2023 00:03	OM
Acrylonitrile	BRL	50		ug/L	359059	1	07/01/2023 00:03	OM
Benzene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Bromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Bromoform	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Bromomethane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	07/01/2023 00:03	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Chlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Chloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Chloroform	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Chloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Dibromomethane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Iodomethane	BRL	100		ug/L	359059	1	07/01/2023 00:03	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	07/01/2023 00:03	OM
Styrene	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Toluene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	07/01/2023 00:03	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	07/01/2023 00:03	OM
Vinyl acetate	BRL	100		ug/L	359059	1	07/01/2023 00:03	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-068

**Client Sample ID:** PH1-GWA-1A  
**Collection Date:** 6/22/2023 3:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	07/01/2023 00:03	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	07/01/2023 00:03	OM
Surr: 4-Bromofluorobenzene	98.3	70-126		%REC	359059	1	07/01/2023 00:03	OM
Surr: Dibromofluoromethane	110	77-121		%REC	359059	1	07/01/2023 00:03	OM
Surr: Toluene-d8	102	78.6-119		%REC	359059	1	07/01/2023 00:03	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:03	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:03	AD
Barium	0.0254	0.0200		mg/L	358790	1	06/29/2023 01:03	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:03	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:03	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:03	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:03	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:03	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:03	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:03	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:03	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:03	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:03	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:03	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:03	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:** 2306T46-069

**Client Sample ID:** SWC-1  
**Collection Date:** 6/22/2023 4:40:00 PM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	3.33	1.00		mg/L	R520239	1	06/28/2023 12:52	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358829	1	06/28/2023 19:54	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 15:26	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	5.21	0.500		mg/L	R520037	1	06/28/2023 01:39	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	07/01/2023 00:27	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	07/01/2023 00:27	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
2-Butanone	BRL	100		ug/L	359059	1	07/01/2023 00:27	OM
2-Hexanone	BRL	50		ug/L	359059	1	07/01/2023 00:27	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	07/01/2023 00:27	OM
Acetone	BRL	100		ug/L	359059	1	07/01/2023 00:27	OM
Acrylonitrile	BRL	50		ug/L	359059	1	07/01/2023 00:27	OM
Benzene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Bromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Bromoform	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Bromomethane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	07/01/2023 00:27	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Chlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Chloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Chloroform	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Chloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM

**Qualifiers:**

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

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

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-069

**Client Sample ID:** SWC-1  
**Collection Date:** 6/22/2023 4:40:00 PM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Dibromomethane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Iodomethane	BRL	100		ug/L	359059	1	07/01/2023 00:27	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	07/01/2023 00:27	OM
Styrene	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Toluene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	07/01/2023 00:27	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	07/01/2023 00:27	OM
Vinyl acetate	BRL	100		ug/L	359059	1	07/01/2023 00:27	OM
Vinyl chloride	BRL	2.0		ug/L	359059	1	07/01/2023 00:27	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	07/01/2023 00:27	OM
Surr: 4-Bromofluorobenzene	94.9	70-126		%REC	359059	1	07/01/2023 00:27	OM
Surr: Dibromofluoromethane	88.9	77-121		%REC	359059	1	07/01/2023 00:27	OM
Surr: Toluene-d8	99.2	78.6-119		%REC	359059	1	07/01/2023 00:27	OM
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>				
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 10:52	EH
Barium	BRL	0.0200		mg/L	358798	1	06/28/2023 10:52	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 10:52	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 10:52	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 10:52	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 10:52	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 10:52	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 10:52	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 10:52	EH

**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:** 2306T46-070

**Client Sample ID:** FIELD BLANK 2  
**Collection Date:** 6/21/2023 12:10:00 PM  
**Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	07/01/2023 00:50	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	07/01/2023 00:50	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
2-Butanone	BRL	100		ug/L	359059	1	07/01/2023 00:50	OM
2-Hexanone	BRL	50		ug/L	359059	1	07/01/2023 00:50	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	07/01/2023 00:50	OM
Acetone	BRL	100		ug/L	359059	1	07/01/2023 00:50	OM
Acrylonitrile	BRL	50		ug/L	359059	1	07/01/2023 00:50	OM
Benzene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Bromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Bromoform	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Bromomethane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	07/01/2023 00:50	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Chlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Chloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Chloroform	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Chloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Dibromomethane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Iodomethane	BRL	100		ug/L	359059	1	07/01/2023 00:50	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	07/01/2023 00:50	OM
Styrene	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Toluene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	07/01/2023 00:50	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	07/01/2023 00:50	OM
Vinyl acetate	BRL	100		ug/L	359059	1	07/01/2023 00:50	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-070

**Client Sample ID:** FIELD BLANK 2  
**Collection Date:** 6/21/2023 12:10:00 PM  
**Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	07/01/2023 00:50	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	07/01/2023 00:50	OM
Surr: 4-Bromofluorobenzene	97.3	70-126		%REC	359059	1	07/01/2023 00:50	OM
Surr: Dibromofluoromethane	106	77-121		%REC	359059	1	07/01/2023 00:50	OM
Surr: Toluene-d8	101	78.6-119		%REC	359059	1	07/01/2023 00:50	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:07	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:07	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:07	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:07	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:07	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:07	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:07	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:07	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:07	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:07	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:07	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:07	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:07	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:07	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:07	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:** 2306T46-071

**Client Sample ID:** GWC-16A  
**Collection Date:** 6/20/2023 9:45:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,1-Dichloroethane	2.0	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/02/2023 21:16	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/02/2023 21:16	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
2-Butanone	BRL	100		ug/L	359139	1	07/02/2023 21:16	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/02/2023 21:16	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/02/2023 21:16	OM
Acetone	BRL	100		ug/L	359139	1	07/02/2023 21:16	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/02/2023 21:16	OM
Acrolein	BRL	50		ug/L	359139	1	07/02/2023 21:16	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/02/2023 21:16	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/02/2023 21:16	OM
Benzene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Bromoform	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Bromomethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/02/2023 21:16	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Chloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Chloroprene	BRL	20		ug/L	359139	1	07/02/2023 21:16	OM
cis-1,2-Dichloroethene	9.0	2.0		ug/L	359139	1	07/02/2023 21:16	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-16A
<b>Project Name</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 9:45:00 AM
<b>Lab ID:</b> 2306T46-071	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
Iodomethane	BRL	100		ug/L	359139	1	07/02/2023 21:16	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/02/2023 21:16	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/02/2023 21:16	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/02/2023 21:16	OM
Naphthalene	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Propionitrile	BRL	100		ug/L	359139	1	07/02/2023 21:16	OM
Styrene	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Tetrachloroethene	3.2	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Toluene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/02/2023 21:16	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/02/2023 21:16	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/02/2023 21:16	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/02/2023 21:16	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/02/2023 21:16	OM
Surr: 4-Bromofluorobenzene	79.8	70-126		%REC	359139	1	07/02/2023 21:16	OM
Surr: Dibromofluoromethane	78.6	77-121		%REC	359139	1	07/02/2023 21:16	OM
Surr: Toluene-d8	95.4	78.6-119		%REC	359139	1	07/02/2023 21:16	OM

<b>Qualifiers:</b>	*	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:** 2306T46-072

**Client Sample ID:** GWC-24  
**Collection Date:** 6/20/2023 10:20:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	07/01/2023 01:14	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	07/01/2023 01:14	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
2-Butanone	BRL	100		ug/L	359059	1	07/01/2023 01:14	OM
2-Hexanone	BRL	50		ug/L	359059	1	07/01/2023 01:14	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	07/01/2023 01:14	OM
Acetone	BRL	100		ug/L	359059	1	07/01/2023 01:14	OM
Acrylonitrile	BRL	50		ug/L	359059	1	07/01/2023 01:14	OM
Benzene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Bromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Bromoform	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Bromomethane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	07/01/2023 01:14	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Chlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Chloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Chloroform	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Chloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Dibromomethane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Iodomethane	BRL	100		ug/L	359059	1	07/01/2023 01:14	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	07/01/2023 01:14	OM
Styrene	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Toluene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	07/01/2023 01:14	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	07/01/2023 01:14	OM
Vinyl acetate	BRL	100		ug/L	359059	1	07/01/2023 01:14	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-24
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 10:20:00 AM
<b>Lab ID:</b> 2306T46-072	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	07/01/2023 01:14	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	07/01/2023 01:14	OM
Surr: 4-Bromofluorobenzene	99.1	70-126		%REC	359059	1	07/01/2023 01:14	OM
Surr: Dibromofluoromethane	111	77-121		%REC	359059	1	07/01/2023 01:14	OM
Surr: Toluene-d8	100	78.6-119		%REC	359059	1	07/01/2023 01:14	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-24
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:05:00 AM
<b>Lab ID:</b> 2306T46-073	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
<b>SW6020B</b>								
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:10	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:10	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:10	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:10	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:10	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:10	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:10	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:10	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:10	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:10	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:10	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:10	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:10	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:10	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:10	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:** 2306T46-074

**Client Sample ID:** AMW-13  
**Collection Date:** 6/20/2023 11:00:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 22:46	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 22:46	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 22:46	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 22:46	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 22:46	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 22:46	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 22:46	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 22:46	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 22:46	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 22:46	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 22:46	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 22:46	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-074

**Client Sample ID:** AMW-13  
**Collection Date:** 6/20/2023 11:00:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 22:46	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 22:46	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 22:46	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 22:46	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 22:46	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 22:46	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 22:46	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 22:46	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 22:46	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 22:46	OM
Surr: 4-Bromofluorobenzene	79	70-126		%REC	359139	1	07/01/2023 22:46	OM
Surr: Dibromofluoromethane	78.1	77-121		%REC	359139	1	07/01/2023 22:46	OM
Surr: Toluene-d8	85.8	78.6-119		%REC	359139	1	07/01/2023 22:46	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-13
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:00:00 AM
<b>Lab ID:</b> 2306T46-075	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>							
					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:14	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:14	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:14	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:14	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:14	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:14	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:14	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:14	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:14	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:14	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:14	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:14	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:14	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:14	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:14	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:** 2306T46-076

**Client Sample ID:** GWC-17  
**Collection Date:** 6/20/2023 11:25:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 23:09	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 23:09	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 23:09	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 23:09	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 23:09	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 23:09	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 23:09	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 23:09	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 23:09	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 23:09	OM
Benzene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 23:09	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 23:09	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-076

**Client Sample ID:** GWC-17  
**Collection Date:** 6/20/2023 11:25:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 23:09	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 23:09	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 23:09	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 23:09	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 23:09	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 23:09	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 23:09	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 23:09	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/01/2023 23:09	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 23:09	OM
Surr: 4-Bromofluorobenzene	78.3	70-126		%REC	359139	1	07/01/2023 23:09	OM
Surr: Dibromofluoromethane	82.4	77-121		%REC	359139	1	07/01/2023 23:09	OM
Surr: Toluene-d8	86.3	78.6-119		%REC	359139	1	07/01/2023 23:09	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-17
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 9:20:00 AM
<b>Lab ID:</b> 2306T46-077	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:17	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:17	AD
Barium	0.0276	0.0200		mg/L	358790	1	06/29/2023 01:17	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:17	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:17	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:17	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:17	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:17	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:17	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:17	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:17	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:17	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:17	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:17	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:17	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:** 2306T46-078

**Client Sample ID:** GWC-14A  
**Collection Date:** 6/20/2023 1:05:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,1-Dichloroethane	12	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/01/2023 23:33	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/01/2023 23:33	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
2-Butanone	BRL	100		ug/L	359139	1	07/01/2023 23:33	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/01/2023 23:33	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/01/2023 23:33	OM
Acetone	BRL	100		ug/L	359139	1	07/01/2023 23:33	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/01/2023 23:33	OM
Acrolein	BRL	50		ug/L	359139	1	07/01/2023 23:33	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/01/2023 23:33	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/01/2023 23:33	OM
Benzene	2.8	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Bromoform	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Bromomethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/01/2023 23:33	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Chlorobenzene	12	10		ug/L	359139	1	07/01/2023 23:33	OM
Chloroethane	2.4	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Chloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Chloroprene	BRL	20		ug/L	359139	1	07/01/2023 23:33	OM
cis-1,2-Dichloroethene	54	2.0		ug/L	359139	1	07/01/2023 23:33	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-078

**Client Sample ID:** GWC-14A  
**Collection Date:** 6/20/2023 1:05:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/01/2023 23:33	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/01/2023 23:33	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/01/2023 23:33	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/01/2023 23:33	OM
Naphthalene	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Propionitrile	BRL	100		ug/L	359139	1	07/01/2023 23:33	OM
Styrene	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Toluene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/01/2023 23:33	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/01/2023 23:33	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/01/2023 23:33	OM
Vinyl chloride	16	2.0		ug/L	359139	1	07/01/2023 23:33	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/01/2023 23:33	OM
Surr: 4-Bromofluorobenzene	82.9	70-126		%REC	359139	1	07/01/2023 23:33	OM
Surr: Dibromofluoromethane	84.8	77-121		%REC	359139	1	07/01/2023 23:33	OM
Surr: Toluene-d8	83.4	78.6-119		%REC	359139	1	07/01/2023 23:33	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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-14A
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 9:40:00 AM
<b>Lab ID:</b>	2306T46-079	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:21	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:21	AD
Barium	0.161	0.0200		mg/L	358790	1	06/29/2023 01:21	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:21	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:21	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:21	AD
Cobalt	0.226	0.0400		mg/L	358790	1	06/29/2023 01:21	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:21	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:21	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:21	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:21	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:21	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:21	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:21	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:21	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.  
**Project Name** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-080

**Client Sample ID:** GWC-13  
**Collection Date:** 6/20/2023 1:40:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	07/01/2023 01:38	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	07/01/2023 01:38	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
2-Butanone	BRL	100		ug/L	359059	1	07/01/2023 01:38	OM
2-Hexanone	BRL	50		ug/L	359059	1	07/01/2023 01:38	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	07/01/2023 01:38	OM
Acetone	BRL	100		ug/L	359059	1	07/01/2023 01:38	OM
Acrylonitrile	BRL	50		ug/L	359059	1	07/01/2023 01:38	OM
Benzene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Bromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Bromoform	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Bromomethane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	07/01/2023 01:38	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Chlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Chloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Chloroform	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Chloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Dibromomethane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Iodomethane	BRL	100		ug/L	359059	1	07/01/2023 01:38	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	07/01/2023 01:38	OM
Styrene	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Toluene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	07/01/2023 01:38	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	07/01/2023 01:38	OM
Vinyl acetate	BRL	100		ug/L	359059	1	07/01/2023 01:38	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-13
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 1:40:00 PM
<b>Lab ID:</b> 2306T46-080	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	07/01/2023 01:38	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	07/01/2023 01:38	OM
Surr: 4-Bromofluorobenzene	94.6	70-126		%REC	359059	1	07/01/2023 01:38	OM
Surr: Dibromofluoromethane	91.9	77-121		%REC	359059	1	07/01/2023 01:38	OM
Surr: Toluene-d8	99.4	78.6-119		%REC	359059	1	07/01/2023 01:38	OM

<b>Qualifiers:</b>	* 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



<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-13
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/21/2023 9:55:00 AM
<b>Lab ID:</b>	2306T46-081	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:25	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:25	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:25	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:25	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:25	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:25	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:25	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:25	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:25	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:25	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:25	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:25	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:25	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:25	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:25	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:** 2306T46-082

**Client Sample ID:** GWC-12  
**Collection Date:** 6/20/2023 2:20:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	07/01/2023 02:02	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	07/01/2023 02:02	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
2-Butanone	BRL	100		ug/L	359059	1	07/01/2023 02:02	OM
2-Hexanone	BRL	50		ug/L	359059	1	07/01/2023 02:02	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	07/01/2023 02:02	OM
Acetone	BRL	100		ug/L	359059	1	07/01/2023 02:02	OM
Acrylonitrile	BRL	50		ug/L	359059	1	07/01/2023 02:02	OM
Benzene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Bromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Bromoform	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Bromomethane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	07/01/2023 02:02	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Chlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Chloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Chloroform	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Chloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Dibromomethane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Iodomethane	BRL	100		ug/L	359059	1	07/01/2023 02:02	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	07/01/2023 02:02	OM
Styrene	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Toluene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	07/01/2023 02:02	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	07/01/2023 02:02	OM
Vinyl acetate	BRL	100		ug/L	359059	1	07/01/2023 02:02	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 2:20:00 PM
<b>Lab ID:</b> 2306T46-082	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	07/01/2023 02:02	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	07/01/2023 02:02	OM
Surr: 4-Bromofluorobenzene	98.3	70-126		%REC	359059	1	07/01/2023 02:02	OM
Surr: Dibromofluoromethane	106	77-121		%REC	359059	1	07/01/2023 02:02	OM
Surr: Toluene-d8	101	78.6-119		%REC	359059	1	07/01/2023 02:02	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023 10:10:00 AM
<b>Lab ID:</b> 2306T46-083	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:28	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:28	AD
Barium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:28	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:28	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:28	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:28	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:28	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:28	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:28	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:28	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:28	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:28	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:28	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:28	AD
Zinc	BRL	0.0200		mg/L	358790	1	06/29/2023 01:28	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/20/2023 3:00:00 PM
<b>Lab ID:</b> 2306T46-084	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359059	1	07/01/2023 02:26	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359059	1	07/01/2023 02:26	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
2-Butanone	BRL	100		ug/L	359059	1	07/01/2023 02:26	OM
2-Hexanone	BRL	50		ug/L	359059	1	07/01/2023 02:26	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359059	1	07/01/2023 02:26	OM
Acetone	BRL	100		ug/L	359059	1	07/01/2023 02:26	OM
Acrylonitrile	BRL	50		ug/L	359059	1	07/01/2023 02:26	OM
Benzene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Bromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Bromodichloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Bromoform	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Bromomethane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Carbon disulfide	BRL	5.0		ug/L	359059	1	07/01/2023 02:26	OM
Carbon tetrachloride	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Chlorobenzene	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Chloroethane	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Chloroform	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Chloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Dibromochloromethane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Dibromomethane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Ethylbenzene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Iodomethane	BRL	100		ug/L	359059	1	07/01/2023 02:26	OM
Methylene chloride	BRL	5.0		ug/L	359059	1	07/01/2023 02:26	OM
Styrene	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Tetrachloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Toluene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359059	1	07/01/2023 02:26	OM
Trichloroethene	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Trichlorofluoromethane	BRL	10		ug/L	359059	1	07/01/2023 02:26	OM
Vinyl acetate	BRL	100		ug/L	359059	1	07/01/2023 02:26	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-12A
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/20/2023 3:00:00 PM
<b>Lab ID:</b>	2306T46-084	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359059	1	07/01/2023 02:26	OM
Xylenes, Total	BRL	5.0		ug/L	359059	1	07/01/2023 02:26	OM
Surr: 4-Bromofluorobenzene	97.2	70-126		%REC	359059	1	07/01/2023 02:26	OM
Surr: Dibromofluoromethane	102	77-121		%REC	359059	1	07/01/2023 02:26	OM
Surr: Toluene-d8	98.8	78.6-119		%REC	359059	1	07/01/2023 02:26	OM

<b>Qualifiers:</b>	* 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:** 2306T46-085

**Client Sample ID:** PH1-GWC-3  
**Collection Date:** 6/22/2023 11:00:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,1-Dichloroethane	3.4	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/02/2023 21:40	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/02/2023 21:40	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
2-Butanone	BRL	100		ug/L	359139	1	07/02/2023 21:40	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/02/2023 21:40	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/02/2023 21:40	OM
Acetone	BRL	100		ug/L	359139	1	07/02/2023 21:40	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/02/2023 21:40	OM
Acrolein	BRL	50		ug/L	359139	1	07/02/2023 21:40	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/02/2023 21:40	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/02/2023 21:40	OM
Benzene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Bromoform	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Bromomethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/02/2023 21:40	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Chloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Chloroprene	BRL	20		ug/L	359139	1	07/02/2023 21:40	OM
cis-1,2-Dichloroethene	28	2.0		ug/L	359139	1	07/02/2023 21:40	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-3
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 11:00:00 AM
<b>Lab ID:</b> 2306T46-085	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>			<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/02/2023 21:40	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/02/2023 21:40	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/02/2023 21:40	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/02/2023 21:40	OM
Naphthalene	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Propionitrile	BRL	100		ug/L	359139	1	07/02/2023 21:40	OM
Styrene	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Tetrachloroethene	8.3	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Toluene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/02/2023 21:40	OM
Trichloroethene	8.0	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/02/2023 21:40	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/02/2023 21:40	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/02/2023 21:40	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/02/2023 21:40	OM
Surr: 4-Bromofluorobenzene	80.3	70-126		%REC	359139	1	07/02/2023 21:40	OM
Surr: Dibromofluoromethane	79.1	77-121		%REC	359139	1	07/02/2023 21:40	OM
Surr: Toluene-d8	90.5	78.6-119		%REC	359139	1	07/02/2023 21:40	OM

<b>APPENDIX I METALS</b>		<b>SW6020B</b>			<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 02:04	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 02:04	IF
Barium	0.0276	0.0200		mg/L	358792	1	06/29/2023 02:04	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 02:04	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 02:04	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:04	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 02:04	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 02:04	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 02:04	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 02:04	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:04	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 02:04	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 02:04	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 02:04	IF
Zinc	BRL	0.0200		mg/L	358792	1	06/29/2023 02:04	IF

<b>Qualifiers:</b>	* 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:** 2306T46-086

**Client Sample ID:** PH1-GWC-3A  
**Collection Date:** 6/22/2023 11:15:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/02/2023 22:03	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/02/2023 22:03	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
2-Butanone	BRL	100		ug/L	359139	1	07/02/2023 22:03	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/02/2023 22:03	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/02/2023 22:03	OM
Acetone	BRL	100		ug/L	359139	1	07/02/2023 22:03	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/02/2023 22:03	OM
Acrolein	BRL	50		ug/L	359139	1	07/02/2023 22:03	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/02/2023 22:03	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/02/2023 22:03	OM
Benzene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Bromoform	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Bromomethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/02/2023 22:03	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Chloromethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Chloroprene	BRL	20		ug/L	359139	1	07/02/2023 22:03	OM
cis-1,2-Dichloroethene	13	2.0		ug/L	359139	1	07/02/2023 22:03	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-086

**Client Sample ID:** PH1-GWC-3A  
**Collection Date:** 6/22/2023 11:15:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/02/2023 22:03	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/02/2023 22:03	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/02/2023 22:03	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/02/2023 22:03	OM
Naphthalene	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Propionitrile	BRL	100		ug/L	359139	1	07/02/2023 22:03	OM
Styrene	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Tetrachloroethene	2.0	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Toluene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/02/2023 22:03	OM
Trichloroethene	5.5	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/02/2023 22:03	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/02/2023 22:03	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/02/2023 22:03	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/02/2023 22:03	OM
Surr: 4-Bromofluorobenzene	85.3	70-126		%REC	359139	1	07/02/2023 22:03	OM
Surr: Dibromofluoromethane	83.3	77-121		%REC	359139	1	07/02/2023 22:03	OM
Surr: Toluene-d8	90.7	78.6-119		%REC	359139	1	07/02/2023 22:03	OM

**APPENDIX I METALS SW6020B****(SW3005A)**

Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 02:22	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 02:22	IF
Barium	0.0269	0.0200		mg/L	358792	1	06/29/2023 02:22	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 02:22	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 02:22	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:22	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 02:22	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 02:22	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 02:22	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 02:22	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:22	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 02:22	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 02:22	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 02:22	IF
Zinc	BRL	0.0200		mg/L	358792	1	06/29/2023 02:22	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:** 2306T46-087

**Client Sample ID:** GWA-1  
**Collection Date:** 6/22/2023 3:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359060	1	07/01/2023 02:50	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359060	1	07/01/2023 02:50	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
2-Butanone	BRL	100		ug/L	359060	1	07/01/2023 02:50	OM
2-Hexanone	BRL	50		ug/L	359060	1	07/01/2023 02:50	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359060	1	07/01/2023 02:50	OM
Acetone	BRL	100		ug/L	359060	1	07/01/2023 02:50	OM
Acrylonitrile	BRL	50		ug/L	359060	1	07/01/2023 02:50	OM
Benzene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Bromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Bromodichloromethane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Bromoform	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Bromomethane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Carbon disulfide	BRL	5.0		ug/L	359060	1	07/01/2023 02:50	OM
Carbon tetrachloride	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Chlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Chloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Chloroform	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Chloromethane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Dibromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Dibromomethane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Ethylbenzene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Iodomethane	BRL	100		ug/L	359060	1	07/01/2023 02:50	OM
Methylene chloride	BRL	5.0		ug/L	359060	1	07/01/2023 02:50	OM
Styrene	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Tetrachloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Toluene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359060	1	07/01/2023 02:50	OM
Trichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Trichlorofluoromethane	BRL	10		ug/L	359060	1	07/01/2023 02:50	OM
Vinyl acetate	BRL	100		ug/L	359060	1	07/01/2023 02:50	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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWA-1
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/22/2023 3:15:00 PM
<b>Lab ID:</b>	2306T46-087	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359060	1	07/01/2023 02:50	OM
Xylenes, Total	BRL	5.0		ug/L	359060	1	07/01/2023 02:50	OM
Surr: 4-Bromofluorobenzene	95.9	70-126		%REC	359060	1	07/01/2023 02:50	OM
Surr: Dibromofluoromethane	99.2	77-121		%REC	359060	1	07/01/2023 02:50	OM
Surr: Toluene-d8	98.5	78.6-119		%REC	359060	1	07/01/2023 02:50	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 02:25	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 02:25	IF
Barium	0.0230	0.0200		mg/L	358792	1	06/29/2023 02:25	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 02:25	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 02:25	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:25	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 02:25	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 02:25	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 02:25	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 02:25	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:25	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 02:25	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 02:25	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 02:25	IF
Zinc	0.0205	0.0200		mg/L	358792	1	06/29/2023 02:25	IF

<b>Qualifiers:</b>	* 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

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	GWC-4A
<b>Project Name</b>	Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b>	6/22/2023 9:30:00 AM
<b>Lab ID:</b>	2306T46-088	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358790	1	06/29/2023 01:32	AD
Arsenic	BRL	0.0100		mg/L	358790	1	06/29/2023 01:32	AD
Barium	0.0546	0.0200		mg/L	358790	1	06/29/2023 01:32	AD
Beryllium	BRL	0.00300		mg/L	358790	1	06/29/2023 01:32	AD
Cadmium	BRL	0.00500		mg/L	358790	1	06/29/2023 01:32	AD
Chromium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:32	AD
Cobalt	BRL	0.0400		mg/L	358790	1	06/29/2023 01:32	AD
Copper	BRL	0.0200		mg/L	358790	1	06/29/2023 01:32	AD
Lead	BRL	0.0150		mg/L	358790	1	06/29/2023 01:32	AD
Nickel	BRL	0.0200		mg/L	358790	1	06/29/2023 01:32	AD
Selenium	BRL	0.0100		mg/L	358790	1	06/29/2023 01:32	AD
Silver	BRL	0.0100		mg/L	358790	1	06/29/2023 01:32	AD
Thallium	BRL	0.00200		mg/L	358790	1	06/29/2023 01:32	AD
Vanadium	BRL	0.0200		mg/L	358790	1	06/29/2023 01:32	AD
Zinc	0.0570	0.0200		mg/L	359151	1	07/05/2023 15:29	AD

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 9:10:00 AM
<b>Lab ID:</b> 2306T46-089	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 02:50	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 02:50	IF
Barium	0.0300	0.0200		mg/L	358792	1	06/29/2023 02:50	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 02:50	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 02:50	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:50	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 02:50	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 02:50	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 02:50	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 02:50	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:50	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 02:50	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 02:50	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 02:50	IF
Zinc	BRL	0.0200		mg/L	358792	1	06/29/2023 02:50	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 9:05:00 AM
<b>Lab ID:</b> 2306T46-090	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 02:54	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 02:54	IF
Barium	0.0369	0.0200		mg/L	358792	1	06/29/2023 02:54	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 02:54	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 02:54	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:54	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 02:54	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 02:54	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 02:54	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 02:54	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:54	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 02:54	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 02:54	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 02:54	IF
Zinc	BRL	0.0200		mg/L	358792	1	06/29/2023 02:54	IF

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 9:20:00 AM
<b>Lab ID:</b> 2306T46-091	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 02:57	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 02:57	IF
Barium	BRL	0.0200		mg/L	358792	1	06/29/2023 02:57	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 02:57	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 02:57	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:57	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 02:57	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 02:57	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 02:57	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 02:57	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 02:57	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 02:57	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 02:57	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 02:57	IF
Zinc	BRL	0.0200		mg/L	358792	1	06/29/2023 02:57	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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 9:25:00 AM
<b>Lab ID:</b> 2306T46-092	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 03:01	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 03:01	IF
Barium	BRL	0.0200		mg/L	358792	1	06/29/2023 03:01	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 03:01	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 03:01	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 03:01	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 03:01	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 03:01	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 03:01	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 03:01	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 03:01	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 03:01	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 03:01	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 03:01	IF
Zinc	BRL	0.0200		mg/L	358792	1	06/29/2023 03:01	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:** 2306T46-093

**Client Sample ID:** AMW-12  
**Collection Date:** 6/22/2023 12:50:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359060	1	07/01/2023 03:13	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359060	1	07/01/2023 03:13	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
2-Butanone	BRL	100		ug/L	359060	1	07/01/2023 03:13	OM
2-Hexanone	BRL	50		ug/L	359060	1	07/01/2023 03:13	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359060	1	07/01/2023 03:13	OM
Acetone	BRL	100		ug/L	359060	1	07/01/2023 03:13	OM
Acrylonitrile	BRL	50		ug/L	359060	1	07/01/2023 03:13	OM
Benzene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Bromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Bromodichloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Bromoform	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Bromomethane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Carbon disulfide	BRL	5.0		ug/L	359060	1	07/01/2023 03:13	OM
Carbon tetrachloride	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Chlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Chloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Chloroform	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Chloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Dibromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Dibromomethane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Ethylbenzene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Iodomethane	BRL	100		ug/L	359060	1	07/01/2023 03:13	OM
Methylene chloride	BRL	5.0		ug/L	359060	1	07/01/2023 03:13	OM
Styrene	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Tetrachloroethene	2.0	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Toluene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359060	1	07/01/2023 03:13	OM
Trichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Trichlorofluoromethane	BRL	10		ug/L	359060	1	07/01/2023 03:13	OM
Vinyl acetate	BRL	100		ug/L	359060	1	07/01/2023 03:13	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-12
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 12:50:00 PM
<b>Lab ID:</b> 2306T46-093	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	359060	1	07/01/2023 03:13	OM
Xylenes, Total	BRL	5.0		ug/L	359060	1	07/01/2023 03:13	OM
Surr: 4-Bromofluorobenzene	98.1	70-126		%REC	359060	1	07/01/2023 03:13	OM
Surr: Dibromofluoromethane	109	77-121		%REC	359060	1	07/01/2023 03:13	OM
Surr: Toluene-d8	99.9	78.6-119		%REC	359060	1	07/01/2023 03:13	OM

<b>Qualifiers:</b>	* 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:** 2306T46-094

**Client Sample ID:** AMW-12R  
**Collection Date:** 6/22/2023 12:35:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359060	1	07/01/2023 03:37	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359060	1	07/01/2023 03:37	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
2-Butanone	BRL	100		ug/L	359060	1	07/01/2023 03:37	OM
2-Hexanone	BRL	50		ug/L	359060	1	07/01/2023 03:37	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359060	1	07/01/2023 03:37	OM
Acetone	BRL	100		ug/L	359060	1	07/01/2023 03:37	OM
Acrylonitrile	BRL	50		ug/L	359060	1	07/01/2023 03:37	OM
Benzene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Bromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Bromodichloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Bromoform	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Bromomethane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Carbon disulfide	BRL	5.0		ug/L	359060	1	07/01/2023 03:37	OM
Carbon tetrachloride	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Chlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Chloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Chloroform	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Chloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Dibromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Dibromomethane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Ethylbenzene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Iodomethane	BRL	100		ug/L	359060	1	07/01/2023 03:37	OM
Methylene chloride	BRL	5.0		ug/L	359060	1	07/01/2023 03:37	OM
Styrene	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Tetrachloroethene	3.7	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Toluene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359060	1	07/01/2023 03:37	OM
Trichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Trichlorofluoromethane	BRL	10		ug/L	359060	1	07/01/2023 03:37	OM
Vinyl acetate	BRL	100		ug/L	359060	1	07/01/2023 03:37	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-12R
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 12:35:00 PM
<b>Lab ID:</b> 2306T46-094	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	359060	1	07/01/2023 03:37	OM
Xylenes, Total	BRL	5.0		ug/L	359060	1	07/01/2023 03:37	OM
Surr: 4-Bromofluorobenzene	95.4	70-126		%REC	359060	1	07/01/2023 03:37	OM
Surr: Dibromofluoromethane	92	77-121		%REC	359060	1	07/01/2023 03:37	OM
Surr: Toluene-d8	98.8	78.6-119		%REC	359060	1	07/01/2023 03:37	OM

<b>Qualifiers:</b>	* 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:** 2306T46-095

**Client Sample ID:** PH1-GWA-4  
**Collection Date:** 6/23/2023 9:25:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359060	1	07/01/2023 04:01	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359060	1	07/01/2023 04:01	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
2-Butanone	BRL	100		ug/L	359060	1	07/01/2023 04:01	OM
2-Hexanone	BRL	50		ug/L	359060	1	07/01/2023 04:01	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359060	1	07/01/2023 04:01	OM
Acetone	BRL	100		ug/L	359060	1	07/01/2023 04:01	OM
Acrylonitrile	BRL	50		ug/L	359060	1	07/01/2023 04:01	OM
Benzene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Bromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Bromodichloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Bromoform	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Bromomethane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Carbon disulfide	BRL	5.0		ug/L	359060	1	07/01/2023 04:01	OM
Carbon tetrachloride	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Chlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Chloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Chloroform	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Chloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Dibromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Dibromomethane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Ethylbenzene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Iodomethane	BRL	100		ug/L	359060	1	07/01/2023 04:01	OM
Methylene chloride	BRL	5.0		ug/L	359060	1	07/01/2023 04:01	OM
Styrene	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Tetrachloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Toluene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359060	1	07/01/2023 04:01	OM
Trichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Trichlorofluoromethane	BRL	10		ug/L	359060	1	07/01/2023 04:01	OM
Vinyl acetate	BRL	100		ug/L	359060	1	07/01/2023 04:01	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-095

**Client Sample ID:** PH1-GWA-4  
**Collection Date:** 6/23/2023 9:25:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359060	1	07/01/2023 04:01	OM
Xylenes, Total	BRL	5.0		ug/L	359060	1	07/01/2023 04:01	OM
Surr: 4-Bromofluorobenzene	99.8	70-126		%REC	359060	1	07/01/2023 04:01	OM
Surr: Dibromofluoromethane	108	77-121		%REC	359060	1	07/01/2023 04:01	OM
Surr: Toluene-d8	101	78.6-119		%REC	359060	1	07/01/2023 04:01	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358792	1	06/29/2023 03:04	IF
Arsenic	BRL	0.0100		mg/L	358792	1	06/29/2023 03:04	IF
Barium	BRL	0.0200		mg/L	358792	1	06/29/2023 03:04	IF
Beryllium	BRL	0.00300		mg/L	358792	1	06/29/2023 03:04	IF
Cadmium	BRL	0.00500		mg/L	358792	1	06/29/2023 03:04	IF
Chromium	BRL	0.0100		mg/L	358792	1	06/29/2023 03:04	IF
Cobalt	BRL	0.0400		mg/L	358792	1	06/29/2023 03:04	IF
Copper	BRL	0.0200		mg/L	358792	1	06/29/2023 03:04	IF
Lead	BRL	0.0150		mg/L	358792	1	06/29/2023 03:04	IF
Nickel	BRL	0.0200		mg/L	358792	1	06/29/2023 03:04	IF
Selenium	BRL	0.0100		mg/L	358792	1	06/29/2023 03:04	IF
Silver	BRL	0.0100		mg/L	358792	1	06/29/2023 03:04	IF
Thallium	BRL	0.00200		mg/L	358792	1	06/29/2023 03:04	IF
Vanadium	BRL	0.0200		mg/L	358792	1	06/29/2023 03:04	IF
Zinc	BRL	0.0200		mg/L	358792	1	06/29/2023 03:04	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:** 2306T46-096

**Client Sample ID:** TRIP BLANK  
**Collection Date:** 6/21/2023  
**Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359244	1	07/02/2023 16:58	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359244	1	07/02/2023 16:58	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
2-Butanone	BRL	100		ug/L	359244	1	07/02/2023 16:58	OM
2-Hexanone	BRL	50		ug/L	359244	1	07/02/2023 16:58	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359244	1	07/02/2023 16:58	OM
Acetone	BRL	100		ug/L	359244	1	07/02/2023 16:58	OM
Acetonitrile	BRL	200		ug/L	359244	1	07/02/2023 16:58	OM
Acrolein	BRL	50		ug/L	359244	1	07/02/2023 16:58	OM
Acrylonitrile	BRL	50		ug/L	359244	1	07/02/2023 16:58	OM
Allyl Chloride	BRL	100		ug/L	359244	1	07/02/2023 16:58	OM
Benzene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Bromochloromethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Bromodichloromethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Bromoform	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Bromomethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Carbon disulfide	BRL	5.0		ug/L	359244	1	07/02/2023 16:58	OM
Carbon tetrachloride	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Chlorobenzene	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Chloroethane	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Chloroform	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Chloromethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Chloroprene	BRL	20		ug/L	359244	1	07/02/2023 16:58	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Dibromochloromethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Dibromomethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Dichlorodifluoromethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Ethyl Methacrylate	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Ethylbenzene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	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



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/21/2023
<b>Lab ID:</b> 2306T46-096	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359244	1	07/02/2023 16:58	OM
Isobutyl Alcohol	BRL	200		ug/L	359244	1	07/02/2023 16:58	OM
Methyl Methacrylate	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Methylacrylonitrile	BRL	200		ug/L	359244	1	07/02/2023 16:58	OM
Methylene chloride	BRL	5.0		ug/L	359244	1	07/02/2023 16:58	OM
Naphthalene	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Propionitrile	BRL	100		ug/L	359244	1	07/02/2023 16:58	OM
Styrene	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Tetrachloroethene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Toluene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359244	1	07/02/2023 16:58	OM
Trichloroethene	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Trichlorofluoromethane	BRL	10		ug/L	359244	1	07/02/2023 16:58	OM
Vinyl acetate	BRL	100		ug/L	359244	1	07/02/2023 16:58	OM
Vinyl chloride	BRL	2.0		ug/L	359244	1	07/02/2023 16:58	OM
Xylenes, Total	BRL	5.0		ug/L	359244	1	07/02/2023 16:58	OM
Surr: 4-Bromofluorobenzene	82.8	70-126		%REC	359244	1	07/02/2023 16:58	OM
Surr: Dibromofluoromethane	85.3	77-121		%REC	359244	1	07/02/2023 16:58	OM
Surr: Toluene-d8	92.8	78.6-119		%REC	359244	1	07/02/2023 16:58	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/22/2023 9:35:00 AM
<b>Lab ID:</b> 2306T46-097	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DISSOLVED APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	358836	1	06/28/2023 19:23	AD
Arsenic	BRL	0.0100		mg/L	358836	1	06/30/2023 14:26	AD
Barium	BRL	0.0200		mg/L	358836	1	06/28/2023 19:23	AD
Beryllium	BRL	0.00300		mg/L	358836	1	06/30/2023 14:26	AD
Cadmium	BRL	0.00500		mg/L	358836	1	06/28/2023 19:23	AD
Chromium	BRL	0.0100		mg/L	358836	1	06/28/2023 19:23	AD
Cobalt	BRL	0.0400		mg/L	358836	1	06/28/2023 19:23	AD
Copper	BRL	0.0200		mg/L	358836	1	06/28/2023 19:23	AD
Lead	BRL	0.0150		mg/L	358836	1	06/28/2023 19:23	AD
Nickel	BRL	0.0200		mg/L	358836	1	06/28/2023 19:23	AD
Selenium	BRL	0.0100		mg/L	358836	1	06/28/2023 19:23	AD
Silver	BRL	0.0100		mg/L	358836	1	06/28/2023 19:23	AD
Thallium	BRL	0.00200		mg/L	358836	1	06/28/2023 19:23	AD
Vanadium	BRL	0.0200		mg/L	358836	1	06/28/2023 19:23	AD
Zinc	BRL	0.0200		mg/L	358836	1	06/30/2023 14:26	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWA-1
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/23/2023 8:50:00 AM
<b>Lab ID:</b> 2306T46-098	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	3.46	1.00		mg/L	R520239	1	06/28/2023 16:02	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358746	1	06/27/2023 17:39	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 15:42	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	1.79	0.500		mg/L	R520037	1	06/28/2023 01:50	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 10:55	EH
Barium	0.0308	0.0200		mg/L	358798	1	06/28/2023 10:55	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 10:55	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 10:55	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 10:55	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 10:55	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 10:55	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 10:55	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 10:55	EH

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWA-2
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/23/2023 9:15:00 AM
<b>Lab ID:</b> 2306T46-099	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	1.86	1.00		mg/L	R520239	1	06/28/2023 16:34	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358746	1	06/27/2023 14:42	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 15:46	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	1.72	0.500		mg/L	R520037	1	06/28/2023 02:01	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 11:04	EH
Barium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:04	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 11:04	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 11:04	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 11:04	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 11:04	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:04	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 11:04	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 11:04	EH

<b>Qualifiers:</b>	* 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:** 2306T46-100

**Client Sample ID:** SWC-2  
**Collection Date:** 6/23/2023 9:30:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	10.1	1.00		mg/L	R520239	1	06/28/2023 17:04	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358746	1	06/27/2023 17:40	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 15:50	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	5.45	0.500		mg/L	R520037	1	06/28/2023 02:44	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 11:07	EH
Barium	0.0380	0.0200		mg/L	358798	1	06/28/2023 11:07	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 11:07	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 11:07	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 11:07	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 11:07	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:07	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 11:07	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 11:07	EH

**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:** 2306T46-101

**Client Sample ID:** SWC-3  
**Collection Date:** 6/23/2023 9:45:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	2.63	1.00		mg/L	R520239	1	06/28/2023 17:37	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358746	1	06/27/2023 15:55	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 15:54	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	2.24	0.500		mg/L	R520037	1	06/28/2023 02:55	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	10.3	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 11:10	EH
Barium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:10	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 11:10	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 11:10	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 11:10	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 11:10	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:10	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 11:10	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 11:10	EH

**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:** 2306T46-102

**Client Sample ID:** SWC-4  
**Collection Date:** 6/23/2023 10:00:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	2.26	1.00		mg/L	R520239	1	06/28/2023 18:11	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358746	1	06/27/2023 15:58	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 15:58	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	2.37	0.500		mg/L	R520037	1	06/28/2023 03:05	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359060	1	07/01/2023 04:25	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359060	1	07/01/2023 04:25	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
2-Butanone	BRL	100		ug/L	359060	1	07/01/2023 04:25	OM
2-Hexanone	BRL	50		ug/L	359060	1	07/01/2023 04:25	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359060	1	07/01/2023 04:25	OM
Acetone	BRL	100		ug/L	359060	1	07/01/2023 04:25	OM
Acrylonitrile	BRL	50		ug/L	359060	1	07/01/2023 04:25	OM
Benzene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Bromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Bromodichloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Bromoform	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Bromomethane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Carbon disulfide	BRL	5.0		ug/L	359060	1	07/01/2023 04:25	OM
Carbon tetrachloride	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Chlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Chloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Chloroform	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Chloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	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.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-102

**Client Sample ID:** SWC-4  
**Collection Date:** 6/23/2023 10:00:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Dibromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Dibromomethane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Ethylbenzene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Iodomethane	BRL	100		ug/L	359060	1	07/01/2023 04:25	OM
Methylene chloride	BRL	5.0		ug/L	359060	1	07/01/2023 04:25	OM
Styrene	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Tetrachloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Toluene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359060	1	07/01/2023 04:25	OM
Trichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Trichlorofluoromethane	BRL	10		ug/L	359060	1	07/01/2023 04:25	OM
Vinyl acetate	BRL	100		ug/L	359060	1	07/01/2023 04:25	OM
Vinyl chloride	BRL	2.0		ug/L	359060	1	07/01/2023 04:25	OM
Xylenes, Total	BRL	5.0		ug/L	359060	1	07/01/2023 04:25	OM
Surr: 4-Bromofluorobenzene	99.2	70-126		%REC	359060	1	07/01/2023 04:25	OM
Surr: Dibromofluoromethane	105	77-121		%REC	359060	1	07/01/2023 04:25	OM
Surr: Toluene-d8	97.8	78.6-119		%REC	359060	1	07/01/2023 04:25	OM
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>				
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 11:13	EH
Barium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:13	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 11:13	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 11:13	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 11:13	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 11:13	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:13	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 11:13	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 11:13	EH

**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:** 2306T46-103

**Client Sample ID:** SWC-4A  
**Collection Date:** 6/23/2023 10:15:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359060	1	07/01/2023 04:49	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359060	1	07/01/2023 04:49	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
2-Butanone	BRL	100		ug/L	359060	1	07/01/2023 04:49	OM
2-Hexanone	BRL	50		ug/L	359060	1	07/01/2023 04:49	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359060	1	07/01/2023 04:49	OM
Acetone	BRL	100		ug/L	359060	1	07/01/2023 04:49	OM
Acrylonitrile	BRL	50		ug/L	359060	1	07/01/2023 04:49	OM
Benzene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Bromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Bromodichloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Bromoform	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Bromomethane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Carbon disulfide	BRL	5.0		ug/L	359060	1	07/01/2023 04:49	OM
Carbon tetrachloride	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Chlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Chloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Chloroform	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Chloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Dibromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Dibromomethane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Ethylbenzene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Iodomethane	BRL	100		ug/L	359060	1	07/01/2023 04:49	OM
Methylene chloride	BRL	5.0		ug/L	359060	1	07/01/2023 04:49	OM
Styrene	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Tetrachloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Toluene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359060	1	07/01/2023 04:49	OM
Trichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Trichlorofluoromethane	BRL	10		ug/L	359060	1	07/01/2023 04:49	OM
Vinyl acetate	BRL	100		ug/L	359060	1	07/01/2023 04:49	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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-4A
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/23/2023 10:15:00 AM
<b>Lab ID:</b> 2306T46-103	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	359060	1	07/01/2023 04:49	OM
Xylenes, Total	BRL	5.0		ug/L	359060	1	07/01/2023 04:49	OM
Surr: 4-Bromofluorobenzene	101	70-126		%REC	359060	1	07/01/2023 04:49	OM
Surr: Dibromofluoromethane	104	77-121		%REC	359060	1	07/01/2023 04:49	OM
Surr: Toluene-d8	99.6	78.6-119		%REC	359060	1	07/01/2023 04:49	OM

<b>Qualifiers:</b>	* 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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-5
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/23/2023 11:05:00 AM
<b>Lab ID:</b> 2306T46-104	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	9.61	1.00		mg/L	R520239	1	06/28/2023 18:41	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358746	1	06/27/2023 16:00	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 16:02	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	17.9	0.500		mg/L	R520037	1	06/28/2023 03:16	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 11:16	EH
Barium	0.0432	0.0200		mg/L	358798	1	06/28/2023 11:16	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 11:16	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 11:16	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 11:16	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 11:16	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:16	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 11:16	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 11:16	EH

**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

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-6
<b>Project Name:</b> Forsyth County-Hightower Road MSWLF	<b>Collection Date:</b> 6/23/2023 11:20:00 AM
<b>Lab ID:</b> 2306T46-105	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B-2014</b>								
Organic Carbon, Total	5.14	1.00		mg/L	R520239	1	06/28/2023 19:14	AY
<b>Total Cyanide SM4500 CN-C, E-2016 (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	358746	1	06/27/2023 16:03	MS
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	358850	1	06/28/2023 16:06	GR
<b>Inorganic Anions by IC E300.0</b>								
Chloride	14.4	0.500		mg/L	R520037	1	06/28/2023 03:27	TM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R520025	1	06/28/2023 11:46	AA
<b>APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,2,3-Trichloropropane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	359060	1	07/01/2023 05:13	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359060	1	07/01/2023 05:13	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
2-Butanone	BRL	100		ug/L	359060	1	07/01/2023 05:13	OM
2-Hexanone	BRL	50		ug/L	359060	1	07/01/2023 05:13	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359060	1	07/01/2023 05:13	OM
Acetone	BRL	100		ug/L	359060	1	07/01/2023 05:13	OM
Acrylonitrile	BRL	50		ug/L	359060	1	07/01/2023 05:13	OM
Benzene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Bromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Bromodichloromethane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Bromoform	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Bromomethane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Carbon disulfide	BRL	5.0		ug/L	359060	1	07/01/2023 05:13	OM
Carbon tetrachloride	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Chlorobenzene	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Chloroethane	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Chloroform	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Chloromethane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
cis-1,2-Dichloroethene	4.5	2.0		ug/L	359060	1	07/01/2023 05:13	OM

<b>Qualifiers:</b>	* 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:** 2306T46-105

**Client Sample ID:** SWC-6  
**Collection Date:** 6/23/2023 11:20:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Dibromochloromethane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Dibromomethane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Ethylbenzene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Iodomethane	BRL	100		ug/L	359060	1	07/01/2023 05:13	OM
Methylene chloride	BRL	5.0		ug/L	359060	1	07/01/2023 05:13	OM
Styrene	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Tetrachloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Toluene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359060	1	07/01/2023 05:13	OM
Trichloroethene	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Trichlorofluoromethane	BRL	10		ug/L	359060	1	07/01/2023 05:13	OM
Vinyl acetate	BRL	100		ug/L	359060	1	07/01/2023 05:13	OM
Vinyl chloride	BRL	2.0		ug/L	359060	1	07/01/2023 05:13	OM
Xylenes, Total	BRL	5.0		ug/L	359060	1	07/01/2023 05:13	OM
Surr: 4-Bromofluorobenzene	103	70-126		%REC	359060	1	07/01/2023 05:13	OM
Surr: Dibromofluoromethane	115	77-121		%REC	359060	1	07/01/2023 05:13	OM
Surr: Toluene-d8	103	78.6-119		%REC	359060	1	07/01/2023 05:13	OM
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>				
Arsenic	BRL	0.0500		mg/L	358798	1	06/28/2023 11:20	EH
Barium	0.0307	0.0200		mg/L	358798	1	06/28/2023 11:20	EH
Cadmium	BRL	0.0050		mg/L	358798	1	06/28/2023 11:20	EH
Chromium	BRL	0.0100		mg/L	358798	1	06/28/2023 11:20	EH
Lead	BRL	0.0100		mg/L	358798	1	06/28/2023 11:20	EH
Nickel	BRL	0.0200		mg/L	358798	1	06/28/2023 11:20	EH
Selenium	BRL	0.0200		mg/L	358798	1	06/28/2023 11:20	EH
Silver	BRL	0.0100		mg/L	358798	1	06/28/2023 11:20	EH
Zinc	BRL	0.0200		mg/L	358798	1	06/28/2023 11:20	EH

**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:** 2306T46-106

**Client Sample ID:** TRIP BLANK 2  
**Collection Date:** 6/21/2023  
**Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,1-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,1-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,1-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,2,3-Trichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,2,4-Trichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	359139	1	07/02/2023 00:43	OM
1,2-Dibromoethane	BRL	1.0		ug/L	359139	1	07/02/2023 00:43	OM
1,2-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
1,2-Dichloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,3-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
1,3-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
1,4-Dichlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
2,2-Dichloropropane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
2-Butanone	BRL	100		ug/L	359139	1	07/02/2023 00:43	OM
2-Hexanone	BRL	50		ug/L	359139	1	07/02/2023 00:43	OM
4-Methyl-2-pentanone	BRL	50		ug/L	359139	1	07/02/2023 00:43	OM
Acetone	BRL	100		ug/L	359139	1	07/02/2023 00:43	OM
Acetonitrile	BRL	200		ug/L	359139	1	07/02/2023 00:43	OM
Acrolein	BRL	50		ug/L	359139	1	07/02/2023 00:43	OM
Acrylonitrile	BRL	50		ug/L	359139	1	07/02/2023 00:43	OM
Allyl Chloride	BRL	100		ug/L	359139	1	07/02/2023 00:43	OM
Benzene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Bromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Bromodichloromethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Bromoform	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Bromomethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Carbon disulfide	BRL	5.0		ug/L	359139	1	07/02/2023 00:43	OM
Carbon tetrachloride	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Chlorobenzene	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Chloroethane	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Chloroform	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Chloromethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Chloroprene	BRL	20		ug/L	359139	1	07/02/2023 00:43	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Dibromochloromethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Dibromomethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Dichlorodifluoromethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Ethyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Ethylbenzene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
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- F Analyzed in the lab which is a deviation from the method
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- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County-Hightower Road MSWLF  
**Lab ID:** 2306T46-106

**Client Sample ID:** TRIP BLANK 2  
**Collection Date:** 6/21/2023  
**Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	359139	1	07/02/2023 00:43	OM
Isobutyl Alcohol	BRL	200		ug/L	359139	1	07/02/2023 00:43	OM
Methyl Methacrylate	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Methylacrylonitrile	BRL	200		ug/L	359139	1	07/02/2023 00:43	OM
Methylene chloride	BRL	5.0		ug/L	359139	1	07/02/2023 00:43	OM
Naphthalene	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Propionitrile	BRL	100		ug/L	359139	1	07/02/2023 00:43	OM
Styrene	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Tetrachloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Toluene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	359139	1	07/02/2023 00:43	OM
Trichloroethene	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Trichlorofluoromethane	BRL	10		ug/L	359139	1	07/02/2023 00:43	OM
Vinyl acetate	BRL	100		ug/L	359139	1	07/02/2023 00:43	OM
Vinyl chloride	BRL	2.0		ug/L	359139	1	07/02/2023 00:43	OM
Xylenes, Total	BRL	5.0		ug/L	359139	1	07/02/2023 00:43	OM
Surr: 4-Bromofluorobenzene	84.7	70-126		%REC	359139	1	07/02/2023 00:43	OM
Surr: Dibromofluoromethane	94.6	77-121		%REC	359139	1	07/02/2023 00:43	OM
Surr: Toluene-d8	85.7	78.6-119		%REC	359139	1	07/02/2023 00:43	OM

**Qualifiers:**

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

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

**SAMPLE/COOLER RECEIPT CHECKLIST**

1. Client Name: Atlantic Coast Consulting, Inc.

AES Work Order Number: 2306T46

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

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

13. Cooler 1 Temperature 1.6 °C      Cooler 2 Temperature 1.6 °C      Cooler 3 Temperature 1.6 °C      Cooler 4 Temperature 1.6 °C  
 14. Cooler 5 Temperature 1.6 °C      Cooler 6 Temperature 1.6 °C      Cooler 7 Temperature \_\_\_\_\_ °C      Cooler 8 Temperature \_\_\_\_\_ °C

15. Comments: \_\_\_\_\_

I certify that I have completed sections 1-15 (dated initials). MW 6/26/23

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

27. Comments: \_\_\_\_\_

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

I certify that I have completed sections 16-27 (dated initials). MW 6/26/23

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

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

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

I certify that I have completed sections 28-30 (dated initials). MW 6/26/23

Locked



Client: Atlantic Coast Consulting, Inc.  
 Project Name: Forsyth County-Hightower Road MSWLF  
 Lab Order: 2306T46

## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2306T46-001A	GWA-2	6/21/2023 10:30:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-002A	GWA-3	6/21/2023 9:50:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-003A	GWC-4	6/21/2023 9:40:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-004A	GWC-5	6/21/2023 9:35:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-005A	GWC-6	6/21/2023 9:25:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-006A	GWC-7	6/21/2023 9:20:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-007A	GWC-18	6/21/2023 8:50:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-008A	GWC-19R	6/21/2023 9:10:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-009A	GWC-22	6/21/2023 9:05:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-010A	GWC-4A	6/21/2023 5:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-011A	GWC-10	6/22/2023 8:55:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-012A	GWC-10A	6/22/2023 8:50:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-013A	GWC-14	6/22/2023 8:35:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-014A	AMW-1	6/22/2023 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-014B	AMW-1	6/22/2023 4:30:00PM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-015A	PH1-GWA-1	6/20/2023 12:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-016A	PH1-GWA-3A	6/20/2023 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/01/2023
2306T46-016B	PH1-GWA-3A	6/20/2023 3:00:00PM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-017A	PH1-GWB-2	6/20/2023 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/01/2023
2306T46-018A	PH1-GWB-1	6/20/2023 4:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/01/2023
2306T46-019A	AMW-9	6/20/2023 3:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-020A	GWA-3	6/20/2023 2:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/01/2023
2306T46-021A	GWC-4	6/20/2023 1:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/01/2023
2306T46-022A	GWC-5	6/20/2023 12:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-023A	GWC-6	6/20/2023 12:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-024A	GWC-7	6/20/2023 11:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-025A	GWC-18	6/20/2023 9:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-026A	GWC-19R	6/20/2023 11:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-027A	GWC-22	6/20/2023 10:55:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023

Client: Atlantic Coast Consulting, Inc.  
 Project Name: Forsyth County-Hightower Road MSWLF  
 Lab Order: 2306T46

## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2306T46-028A	AMW-4	6/20/2023 9:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-029A	SWC-4B	6/19/2023 1:35:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-030A	GWC-1	6/19/2023 2:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-031A	GWC-2	6/19/2023 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-032A	GWC-3	6/19/2023 3:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-033A	GWC-3A	6/19/2023 3:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-034A	PH1-GWC-4	6/19/2023 4:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-035A	PH1-GWC-1	6/19/2023 4:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-036A	PH1-GWC-4	6/20/2023 8:45:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-037A	PH1-GWC-1	6/20/2023 8:55:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-038A	GWC-1	6/20/2023 9:05:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-039A	GWC-2	6/20/2023 9:15:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-040A	GWC-3	6/20/2023 9:25:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-041A	GWC-3A	6/20/2023 9:30:00AM	Groundwater	APPENDIX I METALS		6/28/2023 7:11:00AM	06/28/2023
2306T46-042A	GWA-2	6/20/2023 11:55:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-043A	AMW-5	6/20/2023 9:55:00AM	Aqueous	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-044A	AMW-14	6/20/2023 10:20:00AM	Aqueous	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-045A	FIELD BLANK -1	6/20/2023 4:20:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		7/1/2023 2:58:00PM	07/02/2023
2306T46-045B	FIELD BLANK -1	6/20/2023 4:20:00PM	Aqueous	APPENDIX I METALS		6/27/2023 3:19:00PM	06/28/2023
2306T46-046A	GWC-14	6/21/2023 11:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-047A	GWC-10A	6/21/2023 12:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-048A	GWC-10	6/21/2023 1:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-049A	GWC-8	6/21/2023 2:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-050A	GWC-8A	6/21/2023 2:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-051A	GWC-23	6/21/2023 3:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-052A	GWC-23A	6/21/2023 3:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-053A	PH1-GWA-1	6/21/2023 10:20:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/28/2023
2306T46-053A	PH1-GWA-1	6/21/2023 10:20:00AM	Groundwater	APPENDIX I METALS		7/5/2023 7:50:00AM	07/05/2023
2306T46-054A	PH1-GWB-1	6/21/2023 9:55:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/28/2023

Client: Atlantic Coast Consulting, Inc.  
 Project Name: Forsyth County-Hightower Road MSWLF  
 Lab Order: 2306T46

## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2306T46-054A	PH1-GWB-1	6/21/2023 9:55:00AM	Groundwater	APPENDIX I METALS		7/5/2023 7:50:00AM	07/05/2023
2306T46-055A	PH1-GWB-2	6/21/2023 10:00:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-055A	PH1-GWB-2	6/21/2023 10:00:00AM	Groundwater	APPENDIX I METALS		7/5/2023 7:50:00AM	07/05/2023
2306T46-056A	AMW-9	6/21/2023 10:05:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-057A	GWC-12A	6/21/2023 10:15:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-058A	GWC-11	6/20/2023 3:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-059A	GWC-11	6/21/2023 10:25:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-060A	GWC-9	6/20/2023 4:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-061A	GWC-9	6/21/2023 10:45:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-061A	GWC-9	6/21/2023 10:45:00AM	Groundwater	APPENDIX I METALS		7/5/2023 7:50:00AM	07/05/2023
2306T46-062A	GWC-14R	6/21/2023 12:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-062B	GWC-14R	6/21/2023 12:40:00PM	Groundwater	APPENDIX II-SEMIVOLATILE ORGANIC:		6/27/2023 10:31:42AM	06/30/2023
2306T46-062B	GWC-14R	6/21/2023 12:40:00PM	Groundwater	Semivolatile Organics		6/28/2023 10:34:45AM	06/28/2023
2306T46-062B	GWC-14R	6/21/2023 12:40:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		6/28/2023 10:34:45AM	06/28/2023
2306T46-062B	GWC-14R	6/21/2023 12:40:00PM	Groundwater	TCL-SEMIVOLATILE ORGANICS		6/27/2023 10:31:42AM	06/28/2023
2306T46-062B	GWC-14R	6/21/2023 12:40:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		6/27/2023 10:31:42AM	06/30/2023
2306T46-063A	GWA-1A	6/22/2023 10:10:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	06/30/2023
2306T46-063B	GWA-1A	6/22/2023 10:10:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-064A	GWC-8R	6/21/2023 3:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-064B	GWC-8R	6/21/2023 3:20:00PM	Groundwater	APPENDIX II-SEMIVOLATILE ORGANIC:		6/27/2023 10:31:42AM	06/30/2023
2306T46-064B	GWC-8R	6/21/2023 3:20:00PM	Groundwater	Semivolatile Organics		6/28/2023 10:34:45AM	06/28/2023
2306T46-064B	GWC-8R	6/21/2023 3:20:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		6/28/2023 10:34:45AM	06/28/2023
2306T46-064B	GWC-8R	6/21/2023 3:20:00PM	Groundwater	TCL-SEMIVOLATILE ORGANICS		6/27/2023 10:31:42AM	06/29/2023
2306T46-064B	GWC-8R	6/21/2023 3:20:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS		6/27/2023 10:31:42AM	06/30/2023
2306T46-065A	PH1-GWA-2	6/21/2023 4:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/02/2023
2306T46-066A	PH1-GWA-2	6/22/2023 9:45:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-067A	PH1-GWC-2	6/22/2023 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-067B	PH1-GWC-2	6/22/2023 12:00:00PM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-067B	PH1-GWC-2	6/22/2023 12:00:00PM	Groundwater	APPENDIX I METALS		7/5/2023 7:50:00AM	07/05/2023

Client: Atlantic Coast Consulting, Inc.  
 Project Name: Forsyth County-Hightower Road MSWLF  
 Lab Order: 2306T46

## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2306T46-068A	PH1-GWA-1A	6/22/2023 3:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	07/01/2023
2306T46-068B	PH1-GWA-1A	6/22/2023 3:15:00PM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-069A	SWC-1	6/22/2023 4:40:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	07/01/2023
2306T46-069B	SWC-1	6/22/2023 4:40:00PM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-069B	SWC-1	6/22/2023 4:40:00PM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023
2306T46-069C	SWC-1	6/22/2023 4:40:00PM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-069D	SWC-1	6/22/2023 4:40:00PM	Surface Water	Total Cyanide		6/28/2023 12:31:00PM	06/28/2023
2306T46-069E	SWC-1	6/22/2023 4:40:00PM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023
2306T46-069F	SWC-1	6/22/2023 4:40:00PM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-070A	FIELD BLANK 2	6/21/2023 12:10:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	07/01/2023
2306T46-070B	FIELD BLANK 2	6/21/2023 12:10:00PM	Aqueous	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-071A	GWC-16A	6/20/2023 9:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/02/2023
2306T46-072A	GWC-24	6/20/2023 10:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	07/01/2023
2306T46-073A	GWC-24	6/21/2023 9:05:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-074A	AMW-13	6/20/2023 11:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-075A	AMW-13	6/21/2023 9:00:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-076A	GWC-17	6/20/2023 11:25:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-077A	GWC-17	6/21/2023 9:20:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-078A	GWC-14A	6/20/2023 1:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/01/2023
2306T46-079A	GWC-14A	6/21/2023 9:40:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-080A	GWC-13	6/20/2023 1:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	07/01/2023
2306T46-081A	GWC-13	6/21/2023 9:55:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-082A	GWC-12	6/20/2023 2:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	07/01/2023
2306T46-083A	GWC-12	6/21/2023 10:10:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-084A	GWC-12A	6/20/2023 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 9:05:00AM	07/01/2023
2306T46-085A	PH1-GWC-3	6/22/2023 11:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/02/2023
2306T46-085B	PH1-GWC-3	6/22/2023 11:00:00AM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023
2306T46-086A	PH1-GWC-3A	6/22/2023 11:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/02/2023
2306T46-086B	PH1-GWC-3A	6/22/2023 11:15:00AM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023

Client: Atlantic Coast Consulting, Inc.  
 Project Name: Forsyth County-Hightower Road MSWLF  
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## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2306T46-087A	GWA-1	6/22/2023 3:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 7:11:00PM	07/01/2023
2306T46-087B	GWA-1	6/22/2023 3:15:00PM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023
2306T46-088A	GWC-4A	6/22/2023 9:30:00AM	Groundwater	APPENDIX I METALS		6/27/2023 3:19:00PM	06/29/2023
2306T46-088A	GWC-4A	6/22/2023 9:30:00AM	Groundwater	APPENDIX I METALS		7/5/2023 7:50:00AM	07/05/2023
2306T46-089A	GWC-8	6/22/2023 9:10:00AM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023
2306T46-090A	GWC-8A	6/22/2023 9:05:00AM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023
2306T46-091A	GWC-23	6/22/2023 9:20:00AM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023
2306T46-092A	GWC-23A	6/22/2023 9:25:00AM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023
2306T46-093A	AMW-12	6/22/2023 12:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 7:11:00PM	07/01/2023
2306T46-094A	AMW-12R	6/22/2023 12:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 7:11:00PM	07/01/2023
2306T46-095A	PH1-GWA-4	6/23/2023 9:25:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		6/30/2023 7:11:00PM	07/01/2023
2306T46-095B	PH1-GWA-4	6/23/2023 9:25:00AM	Groundwater	APPENDIX I METALS		6/27/2023 1:32:00PM	06/29/2023
2306T46-096A	TRIP BLANK	6/21/2023 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		7/2/2023 2:37:00PM	07/02/2023
2306T46-097A	GWC-4A	6/22/2023 9:35:00AM	Groundwater	DISSOLVED APPENDIX I METALS		6/28/2023 9:57:00AM	06/28/2023
2306T46-097A	GWC-4A	6/22/2023 9:35:00AM	Groundwater	DISSOLVED APPENDIX I METALS		6/28/2023 9:57:00AM	06/30/2023
2306T46-098A	SWA-1	6/23/2023 8:50:00AM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-098A	SWA-1	6/23/2023 8:50:00AM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023
2306T46-098B	SWA-1	6/23/2023 8:50:00AM	Surface Water	Total Cyanide		6/27/2023 12:12:00PM	06/27/2023
2306T46-098C	SWA-1	6/23/2023 8:50:00AM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023
2306T46-098D	SWA-1	6/23/2023 8:50:00AM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-098E	SWA-1	6/23/2023 8:50:00AM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-099A	SWA-2	6/23/2023 9:15:00AM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-099A	SWA-2	6/23/2023 9:15:00AM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023
2306T46-099B	SWA-2	6/23/2023 9:15:00AM	Surface Water	Total Cyanide		6/27/2023 12:12:00PM	06/27/2023
2306T46-099C	SWA-2	6/23/2023 9:15:00AM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023
2306T46-099D	SWA-2	6/23/2023 9:15:00AM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-099E	SWA-2	6/23/2023 9:15:00AM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-100A	SWC-2	6/23/2023 9:30:00AM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-100A	SWC-2	6/23/2023 9:30:00AM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023

Client: Atlantic Coast Consulting, Inc.  
 Project Name: Forsyth County-Hightower Road MSWLF  
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## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2306T46-100B	SWC-2	6/23/2023 9:30:00AM	Surface Water	Total Cyanide		6/27/2023 12:12:00PM	06/27/2023
2306T46-100C	SWC-2	6/23/2023 9:30:00AM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023
2306T46-100D	SWC-2	6/23/2023 9:30:00AM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-100E	SWC-2	6/23/2023 9:30:00AM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-101A	SWC-3	6/23/2023 9:45:00AM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-101A	SWC-3	6/23/2023 9:45:00AM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023
2306T46-101B	SWC-3	6/23/2023 9:45:00AM	Surface Water	Total Cyanide		6/27/2023 12:12:00PM	06/27/2023
2306T46-101C	SWC-3	6/23/2023 9:45:00AM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023
2306T46-101D	SWC-3	6/23/2023 9:45:00AM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-101E	SWC-3	6/23/2023 9:45:00AM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-102A	SWC-4	6/23/2023 10:00:00AM	Surface Water	APPENDIX I VOLATILE ORGANICS		6/30/2023 7:11:00PM	07/01/2023
2306T46-102B	SWC-4	6/23/2023 10:00:00AM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-102B	SWC-4	6/23/2023 10:00:00AM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023
2306T46-102C	SWC-4	6/23/2023 10:00:00AM	Surface Water	Total Cyanide		6/27/2023 12:12:00PM	06/27/2023
2306T46-102D	SWC-4	6/23/2023 10:00:00AM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023
2306T46-102E	SWC-4	6/23/2023 10:00:00AM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-102F	SWC-4	6/23/2023 10:00:00AM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-103A	SWC-4A	6/23/2023 10:15:00AM	Surface Water	APPENDIX I VOLATILE ORGANICS		6/30/2023 7:11:00PM	07/01/2023
2306T46-104A	SWC-5	6/23/2023 11:05:00AM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-104A	SWC-5	6/23/2023 11:05:00AM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023
2306T46-104B	SWC-5	6/23/2023 11:05:00AM	Surface Water	Total Cyanide		6/27/2023 12:12:00PM	06/27/2023
2306T46-104C	SWC-5	6/23/2023 11:05:00AM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023
2306T46-104D	SWC-5	6/23/2023 11:05:00AM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-104E	SWC-5	6/23/2023 11:05:00AM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-105A	SWC-6	6/23/2023 11:20:00AM	Surface Water	APPENDIX I VOLATILE ORGANICS		6/30/2023 7:11:00PM	07/01/2023
2306T46-105B	SWC-6	6/23/2023 11:20:00AM	Surface Water	TOTAL METALS BY ICP		6/27/2023 3:25:00PM	06/28/2023
2306T46-105B	SWC-6	6/23/2023 11:20:00AM	Surface Water	TOTAL MERCURY		6/28/2023 10:31:00AM	06/28/2023
2306T46-105C	SWC-6	6/23/2023 11:20:00AM	Surface Water	Total Cyanide		6/27/2023 12:12:00PM	06/27/2023
2306T46-105D	SWC-6	6/23/2023 11:20:00AM	Surface Water	Chemical Oxygen Demand (COD)			06/28/2023

Client: Atlantic Coast Consulting, Inc.  
 Project Name: Forsyth County-Hightower Road MSWLF  
 Lab Order: 2306T46

**Dates Report**

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2306T46-105E	SWC-6	6/23/2023 11:20:00AM	Surface Water	Inorganic Anions by IC			06/28/2023
2306T46-105F	SWC-6	6/23/2023 11:20:00AM	Surface Water	Total Organic Carbon by SM5310B			06/28/2023
2306T46-106A	TRIP BLANK 2	6/21/2023 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		7/1/2023 2:47:00PM	07/02/2023

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name** Forsyth County-Hightower Road MSWLF  
**Workorder:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358586**

Sample ID: <b>MB-358586</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520016</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Semivolatile Org. Comp. by GC/MS SW8270E</b>	BatchID: <b>358586</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12285577</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,3,5-Trinitrobenzene	BRL	10									
3,3'-Dimethoxybenzidine	BRL	10									N
4-Nitroquinoline,1-oxide	BRL	50									
Aramite	BRL	10									
Dimethylaminoazobenzene	BRL	10									N
N-Nitrosomorpholine	BRL	10									
Tetraethyl dithiopyrophosphate	BRL	10									
Surr: 2,4,6-Tribromophenol	81.60	0	100.0		81.6	48	133				
Surr: 2-Fluorobiphenyl	47.09	0	50.00		94.2	46.7	118				
Surr: 2-Fluorophenol	63.70	0	100.0		63.7	28.5	120				
Surr: 4-Terphenyl-d14	53.50	0	50.00		107	45.2	127				
Surr: Nitrobenzene-d5	51.22	0	50.00		102	40.9	119				
Surr: Phenol-d5	46.53	0	100.0		46.5	20	63				

Sample ID: <b>LCS-358586</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520016</b>							
SampleType: <b>LCS</b>	TestCode: <b>Semivolatile Org. Comp. by GC/MS SW8270E</b>	BatchID: <b>358586</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12285578</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2,4,6-Tribromophenol	86.61	0	100.0		86.6	48	133				
Surr: 2-Fluorobiphenyl	51.49	0	50.00		103	46.7	118				
Surr: 2-Fluorophenol	61.20	0	100.0		61.2	28.5	120				
Surr: 4-Terphenyl-d14	51.34	0	50.00		103	45.2	127				
Surr: Nitrobenzene-d5	55.20	0	50.00		110	40.9	119				
Surr: Phenol-d5	48.71	0	100.0		48.7	20	63				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358586**

Sample ID: <b>2306S20-017BMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520016</b>							
SampleType: <b>MS</b>	TestCode: <b>Semivolatile Org. Comp. by GC/MS SW8270E</b>	BatchID: <b>358586</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12285581</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2,4,6-Tribromophenol	66.79	0	100.0		66.8	48	133				
Surr: 2-Fluorobiphenyl	45.76	0	50.00		91.5	46.7	118				
Surr: 2-Fluorophenol	45.07	0	100.0		45.1	28.5	120				
Surr: 4-Terphenyl-d14	48.96	0	50.00		97.9	45.2	127				
Surr: Nitrobenzene-d5	45.38	0	50.00		90.8	40.9	119				
Surr: Phenol-d5	40.87	0	100.0		40.9	20	63				

Sample ID: <b>2306S20-017BMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520016</b>							
SampleType: <b>MSD</b>	TestCode: <b>Semivolatile Org. Comp. by GC/MS SW8270E</b>	BatchID: <b>358586</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12285582</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2,4,6-Tribromophenol	72.36	0	100.0		72.4	48	133	66.79	0	0	
Surr: 2-Fluorobiphenyl	43.16	0	50.00		86.3	46.7	118	45.76	0	0	
Surr: 2-Fluorophenol	45.26	0	100.0		45.3	28.5	120	45.07	0	0	
Surr: 4-Terphenyl-d14	46.30	0	50.00		92.6	45.2	127	48.96	0	0	
Surr: Nitrobenzene-d5	43.99	0	50.00		88.0	40.9	119	45.38	0	0	
Surr: Phenol-d5	40.86	0	100.0		40.9	20	63	40.87	0	0	

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358744**

Sample ID: <b>MB-358744</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520104</b>							
SampleType: <b>MBLK</b>	TestCode: <b>SIM Polynuclear Aromatic Hydrocarbons SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288849</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzo(a)pyrene BRL 0.050  
 Surr: 4-Terphenyl-d14 2.437 0 2.000 122 64.1 136

Sample ID: <b>MB-358744</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520105</b>							
SampleType: <b>MBLK</b>	TestCode: <b>SIM Semivolatile Organics by SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288856</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachlorobenzene BRL 1.0  
 Surr: 4-Terphenyl-d14 2.437 0

Sample ID: <b>LCS-358744</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520104</b>							
SampleType: <b>LCS</b>	TestCode: <b>SIM Polynuclear Aromatic Hydrocarbons SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288850</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzo(a)pyrene 1.880 0.050 2.000 94.0 70.8 125  
 Surr: 4-Terphenyl-d14 2.135 0 2.000 107 64.1 136

Sample ID: <b>LCS-358744</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520105</b>							
SampleType: <b>LCS</b>	TestCode: <b>SIM Semivolatile Organics by SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288857</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachlorobenzene 1.935 1.0 2.000 96.7 50 150  
 Surr: 4-Terphenyl-d14 2.135 0 2.000 107 64.1 136

Sample ID: <b>2306T46-062BMS</b>	Client ID: <b>GWC-14R</b>	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520104</b>							
SampleType: <b>MS</b>	TestCode: <b>SIM Polynuclear Aromatic Hydrocarbons SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288852</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzo(a)pyrene 1.766 0.050 2.000 88.3 53.1 121

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358744**

Sample ID: <b>2306T46-062BMS</b>	Client ID: <b>GWC-14R</b>	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520104</b>							
SampleType: <b>MS</b>	TestCode: <b>SIM Polynuclear Aromatic Hydrocarbons SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288852</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Terphenyl-d14      1.840      0      2.000      92.0      64.1      136

Sample ID: <b>2306T46-062BMS</b>	Client ID: <b>GWC-14R</b>	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520105</b>							
SampleType: <b>MS</b>	TestCode: <b>SIM Semivolatile Organics by SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288859</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachlorobenzene      1.903      1.0      2.000      95.2      50      150  
 Surr: 4-Terphenyl-d14      1.840      0      2.000      92.0      64.1      136

Sample ID: <b>2306T46-062BMSD</b>	Client ID: <b>GWC-14R</b>	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520104</b>							
SampleType: <b>MSD</b>	TestCode: <b>SIM Polynuclear Aromatic Hydrocarbons SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288853</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzo(a)pyrene      1.923      0.050      2.000      96.2      53.1      121      1.766      8.53      19.8  
 Surr: 4-Terphenyl-d14      2.312      0      2.000      116      64.1      136      1.840      0      0

Sample ID: <b>2306T46-062BMSD</b>	Client ID: <b>GWC-14R</b>	Units: <b>ug/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520105</b>							
SampleType: <b>MSD</b>	TestCode: <b>SIM Semivolatile Organics by SW8270E</b>	BatchID: <b>358744</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288860</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachlorobenzene      1.983      1.0      2.000      99.2      50      150      1.903      4.10      30  
 Surr: 4-Terphenyl-d14      2.312      0      2.000      116      64.1      136      1.840      0      0

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358746**

Sample ID: <b>MB-358746</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>519940</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358746</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12283434</b>							
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: <b>LCS-358746</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>519940</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358746</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12283599</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total                      0.1000                      0.010                      0.1000                      100                      85                      115

Sample ID: <b>2306Q48-002CMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>519940</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358746</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12283437</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total                      0.08200                      0.010                      0.1000                      82.0                      90                      110    S

Sample ID: <b>2306T46-099BMS</b>	Client ID: <b>SWA-2</b>	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>519940</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358746</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12283440</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total                      0.09300                      0.010                      0.1000                      93.0                      90                      110

Sample ID: <b>2306Q48-002CMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>519940</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358746</b>	Analysis Date: <b>06/27/2023</b>	Seq No: <b>12283438</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total                      0.06900                      0.010                      0.1000                      69.0                      90                      110                      0.08200                      17.2                      20                      S

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358789**

Sample ID: <b>MB-358789</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520093</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358789</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288426</b>							
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: <b>LCS-358789</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520093</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358789</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288427</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09054	0.00600	0.1000		90.5	80	120				
Arsenic	0.09704	0.0100	0.1000		97.0	80	120				
Barium	0.09488	0.0200	0.1000		94.9	80	120				
Beryllium	0.08663	0.00400	0.1000		86.6	80	120				
Cadmium	0.09440	0.00500	0.1000		94.4	80	120				
Chromium	0.09814	0.0200	0.1000		98.1	80	120				
Cobalt	0.09969	0.0500	0.1000		99.7	80	120				
Copper	0.09988	0.0200	0.1000		99.9	80	120				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358789**

Sample ID: <b>LCS-358789</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520093</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358789</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288427</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.09768	0.0100	0.1000		97.7	80	120				
Nickel	0.09770	0.0400	0.1000		97.7	80	120				
Selenium	0.09446	0.0500	0.1000		94.5	80	120				
Silver	0.01031	0.00500	0.0100		103	80	120				
Thallium	0.1068	0.00200	0.1000		107	80	120				
Vanadium	0.09862	0.0500	0.1000		98.6	80	120				
Zinc	0.09664	0.0200	0.1000		96.6	80	120				

Sample ID: <b>2306T46-001AMS</b>	Client ID: <b>GWA-2</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520093</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358789</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288429</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.08845	0.00600	0.1000		88.4	75	125				
Arsenic	0.09523	0.0100	0.1000		95.2	75	125				
Barium	0.1200	0.0200	0.1000	0.02256	97.5	75	125				
Beryllium	0.09323	0.00400	0.1000		93.2	75	125				
Cadmium	0.09529	0.00500	0.1000		95.3	75	125				
Chromium	0.09781	0.0200	0.1000		97.8	75	125				
Cobalt	0.09778	0.0500	0.1000	0.0003035	97.5	75	125				
Copper	0.1010	0.0200	0.1000		101	75	125				
Lead	0.09793	0.0100	0.1000		97.9	75	125				
Nickel	0.09821	0.0400	0.1000	0.0004688	97.7	75	125				
Selenium	0.09044	0.0500	0.1000		90.4	75	125				
Silver	0.01024	0.00500	0.0100		102	75	125				
Thallium	0.1092	0.00200	0.1000	0.0002799	109	75	125				
Vanadium	0.09541	0.0500	0.1000		95.4	75	125				
Zinc	0.1077	0.0200	0.1000		108	75	125				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358789**

Sample ID: <b>2306T46-001AMSD</b>	Client ID: <b>GWA-2</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520093</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358789</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288430</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.08848	0.00600	0.1000		88.5	75	125	0.08845	0.032	20	
Arsenic	0.09554	0.0100	0.1000		95.5	75	125	0.09523	0.321	20	
Barium	0.1155	0.0200	0.1000	0.02256	92.9	75	125	0.1200	3.88	20	
Beryllium	0.08996	0.00400	0.1000		90.0	75	125	0.09323	3.56	20	
Cadmium	0.09105	0.00500	0.1000		91.1	75	125	0.09529	4.55	20	
Chromium	0.09608	0.0200	0.1000		96.1	75	125	0.09781	1.77	20	
Cobalt	0.09699	0.0500	0.1000	0.0003035	96.7	75	125	0.09778	0.813	20	
Copper	0.09931	0.0200	0.1000		99.3	75	125	0.1010	1.69	20	
Lead	0.09626	0.0100	0.1000		96.3	75	125	0.09793	1.72	20	
Nickel	0.09822	0.0400	0.1000	0.0004688	97.8	75	125	0.09821	0.012	20	
Selenium	0.08542	0.0500	0.1000		85.4	75	125	0.09044	5.71	20	
Silver	0.01010	0.00500	0.0100		101	75	125	0.01024	1.31	20	
Thallium	0.1072	0.00200	0.1000	0.0002799	107	75	125	0.1092	1.88	20	
Vanadium	0.09328	0.0500	0.1000		93.3	75	125	0.09541	2.25	20	
Zinc	0.1051	0.0200	0.1000		105	75	125	0.1077	2.43	20	

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358790**

Sample ID: <b>MB-358790</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520096</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358790</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288667</b>							
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	0.02218	0.0200									B

Sample ID: <b>LCS-358790</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520096</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358790</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288668</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.08945	0.00600	0.1000		89.4	80	120				
Arsenic	0.09286	0.0100	0.1000		92.9	80	120				
Barium	0.09476	0.0200	0.1000		94.8	80	120				
Beryllium	0.08958	0.00400	0.1000		89.6	80	120				
Cadmium	0.09059	0.00500	0.1000		90.6	80	120				
Chromium	0.09099	0.0200	0.1000		91.0	80	120				
Cobalt	0.09029	0.0500	0.1000		90.3	80	120				
Copper	0.09093	0.0200	0.1000		90.9	80	120				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358790**

Sample ID: <b>LCS-358790</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520096</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358790</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288668</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.09528	0.0100	0.1000		95.3	80	120				
Nickel	0.09058	0.0400	0.1000		90.6	80	120				
Selenium	0.08512	0.0500	0.1000		85.1	80	120				
Silver	0.009661	0.00500	0.0100		96.6	80	120				
Thallium	0.1015	0.00200	0.1000		102	80	120				
Vanadium	0.09114	0.0500	0.1000		91.1	80	120				
Zinc	0.1228	0.0200	0.1000	0.02218	101	80	120				B

Sample ID: <b>2306T46-045BMS</b>	Client ID: <b>FIELD BLANK -1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520096</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358790</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288670</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09125	0.00600	0.1000		91.3	75	125				
Arsenic	0.09782	0.0100	0.1000		97.8	75	125				
Barium	0.09725	0.0200	0.1000	0.0003731	96.9	75	125				
Beryllium	0.09069	0.00400	0.1000		90.7	75	125				
Cadmium	0.09137	0.00500	0.1000		91.4	75	125				
Chromium	0.09304	0.0200	0.1000		93.0	75	125				
Cobalt	0.09307	0.0500	0.1000		93.1	75	125				
Copper	0.09498	0.0200	0.1000		95.0	75	125				
Lead	0.09796	0.0100	0.1000		98.0	75	125				
Nickel	0.09277	0.0400	0.1000		92.8	75	125				
Selenium	0.09082	0.0500	0.1000		90.8	75	125				
Silver	0.009708	0.00500	0.0100		97.1	75	125				
Thallium	0.1044	0.00200	0.1000	0.0004407	104	75	125				
Vanadium	0.09342	0.0500	0.1000		93.4	75	125				
Zinc	0.09989	0.0200	0.1000	0.008230	91.7	75	125				B

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358790**

Sample ID: <b>2306T46-045BMSD</b>	Client ID: <b>FIELD BLANK -1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520096</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358790</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12288671</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09099	0.00600	0.1000		91.0	75	125	0.09125	0.293	20	
Arsenic	0.09845	0.0100	0.1000		98.4	75	125	0.09782	0.643	20	
Barium	0.09818	0.0200	0.1000	0.0003731	97.8	75	125	0.09725	0.952	20	
Beryllium	0.1022	0.00400	0.1000		102	75	125	0.09069	11.9	20	
Cadmium	0.1092	0.00500	0.1000		109	75	125	0.09137	17.8	20	
Chromium	0.09576	0.0200	0.1000		95.8	75	125	0.09304	2.88	20	
Cobalt	0.09587	0.0500	0.1000		95.9	75	125	0.09307	2.97	20	
Copper	0.09592	0.0200	0.1000		95.9	75	125	0.09498	0.988	20	
Lead	0.09875	0.0100	0.1000		98.7	75	125	0.09796	0.804	20	
Nickel	0.09480	0.0400	0.1000		94.8	75	125	0.09277	2.16	20	
Selenium	0.09022	0.0500	0.1000		90.2	75	125	0.09082	0.667	20	
Silver	0.01006	0.00500	0.0100		101	75	125	0.009708	3.51	20	
Thallium	0.1082	0.00200	0.1000	0.0004407	108	75	125	0.1044	3.57	20	
Vanadium	0.09540	0.0500	0.1000		95.4	75	125	0.09342	2.09	20	
Zinc	0.09551	0.0200	0.1000	0.008230	87.3	75	125	0.09989	4.49	20	B

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358792**

Sample ID: <b>MB-358792</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520097</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358792</b>	Analysis Date: <b>06/29/2023</b>	Seq No: <b>12288717</b>							
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: <b>LCS-358792</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520097</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358792</b>	Analysis Date: <b>06/29/2023</b>	Seq No: <b>12288718</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09072	0.00600	0.1000		90.7	80	120				
Arsenic	0.09585	0.0100	0.1000		95.9	80	120				
Barium	0.09742	0.0200	0.1000		97.4	80	120				
Beryllium	0.09041	0.00400	0.1000		90.4	80	120				
Cadmium	0.09188	0.00500	0.1000		91.9	80	120				
Chromium	0.09266	0.0200	0.1000		92.7	80	120				
Cobalt	0.09444	0.0500	0.1000		94.4	80	120				
Copper	0.09531	0.0200	0.1000		95.3	80	120				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358792**

Sample ID: <b>LCS-358792</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520097</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358792</b>	Analysis Date: <b>06/29/2023</b>	Seq No: <b>12288718</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.09890	0.0100	0.1000		98.9	80	120				
Nickel	0.09503	0.0400	0.1000		95.0	80	120				
Selenium	0.09098	0.0500	0.1000		91.0	80	120				
Silver	0.01002	0.00500	0.0100		100	80	120				
Thallium	0.1080	0.00200	0.1000		108	80	120				
Vanadium	0.09525	0.0500	0.1000		95.2	80	120				
Zinc	0.09532	0.0200	0.1000		95.3	80	120				

Sample ID: <b>2306T46-085BMS</b>	Client ID: <b>PH1-GWC-3</b>	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520097</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358792</b>	Analysis Date: <b>06/29/2023</b>	Seq No: <b>12288720</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1000	0.00600	0.1000		100	75	125				
Arsenic	0.1061	0.0100	0.1000		106	75	125				
Barium	0.1418	0.0200	0.1000	0.02762	114	75	125				
Beryllium	0.08908	0.00400	0.1000		89.1	75	125				
Cadmium	0.08896	0.00500	0.1000		89.0	75	125				
Chromium	0.1061	0.0200	0.1000		106	75	125				
Cobalt	0.1040	0.0500	0.1000	0.0002147	104	75	125				
Copper	0.1051	0.0200	0.1000		105	75	125				
Lead	0.1092	0.0100	0.1000		109	75	125				
Nickel	0.1076	0.0400	0.1000	0.003256	104	75	125				
Selenium	0.09565	0.0500	0.1000		95.7	75	125				
Silver	0.01116	0.00500	0.0100		112	75	125				
Thallium	0.1203	0.00200	0.1000	0.0003395	120	75	125				
Vanadium	0.1081	0.0500	0.1000	0.001441	107	75	125				
Zinc	0.1092	0.0200	0.1000		109	75	125				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358792**

Sample ID: <b>2306T46-085BMSD</b>	Client ID: <b>PH1-GWC-3</b>	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520097</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>358792</b>	Analysis Date: <b>06/29/2023</b>	Seq No: <b>12288721</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09558	0.00600	0.1000		95.6	75	125	0.1000	4.56	20	
Arsenic	0.09209	0.0100	0.1000		92.1	75	125	0.1061	14.2	20	
Barium	0.1273	0.0200	0.1000	0.02762	99.7	75	125	0.1418	10.8	20	
Beryllium	0.09209	0.00400	0.1000		92.1	75	125	0.08908	3.32	20	
Cadmium	0.09246	0.00500	0.1000		92.5	75	125	0.08896	3.85	20	
Chromium	0.09777	0.0200	0.1000		97.8	75	125	0.1061	8.20	20	
Cobalt	0.09731	0.0500	0.1000	0.0002147	97.1	75	125	0.1040	6.63	20	
Copper	0.09781	0.0200	0.1000		97.8	75	125	0.1051	7.17	20	
Lead	0.1036	0.0100	0.1000		104	75	125	0.1092	5.28	20	
Nickel	0.09719	0.0400	0.1000	0.003256	93.9	75	125	0.1076	10.2	20	
Selenium	0.08814	0.0500	0.1000		88.1	75	125	0.09565	8.17	20	
Silver	0.01015	0.00500	0.0100		102	75	125	0.01116	9.51	20	
Thallium	0.1118	0.00200	0.1000	0.0003395	111	75	125	0.1203	7.33	20	
Vanadium	0.09875	0.0500	0.1000	0.001441	97.3	75	125	0.1081	9.04	20	
Zinc	0.09415	0.0200	0.1000		94.2	75	125	0.1092	14.8	20	

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358798**

Sample ID: <b>MB-358798</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520172</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>358798</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290140</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: <b>LCS-358798</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520172</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>358798</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290148</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.045	0.0500	1.000		104	80	120				
Barium	1.005	0.0200	1.000		101	80	120				
Cadmium	1.032	0.0050	1.000		103	80	120				
Chromium	1.014	0.0100	1.000		101	80	120				
Lead	1.009	0.0100	1.000		101	80	120				
Nickel	1.028	0.0200	1.000		103	80	120				
Selenium	1.038	0.0200	1.000		104	80	120				
Silver	0.1032	0.0100	0.1000		103	80	120				
Zinc	1.005	0.0200	1.000		100	80	120				

Sample ID: <b>2306S81-002BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520172</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>358798</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290153</b>							
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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358798**

Sample ID: <b>2306S81-002BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520172</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>358798</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290153</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.053	0.0500	1.000		105	75	125				
Barium	1.022	0.0200	1.000	0.01998	100	75	125				
Cadmium	1.024	0.0050	1.000		102	75	125				
Chromium	1.007	0.0100	1.000		101	75	125				
Lead	1.004	0.0100	1.000		100	75	125				
Nickel	1.031	0.0200	1.000		103	75	125				
Selenium	1.023	0.0200	1.000		102	75	125				
Silver	0.1025	0.0100	0.1000		102	75	125				
Zinc	1.013	0.0200	1.000	0.01434	99.9	75	125				

Sample ID: <b>2306S81-002BMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/27/2023</b>	Run No: <b>520172</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>358798</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290155</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.050	0.0500	1.000		105	75	125	1.053	0.321	20	
Barium	1.026	0.0200	1.000	0.01998	101	75	125	1.022	0.363	20	
Cadmium	1.029	0.0050	1.000		103	75	125	1.024	0.431	20	
Chromium	1.012	0.0100	1.000		101	75	125	1.007	0.472	20	
Lead	1.010	0.0100	1.000		101	75	125	1.004	0.545	20	
Nickel	1.038	0.0200	1.000		104	75	125	1.031	0.738	20	
Selenium	1.027	0.0200	1.000		103	75	125	1.023	0.347	20	
Silver	0.1026	0.0100	0.1000		103	75	125	0.1025	0.098	20	
Zinc	1.028	0.0200	1.000	0.01434	101	75	125	1.013	1.48	20	

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358829**

Sample ID: <b>MB-358829</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520135</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358829</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12289369</b>							
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: <b>LCS-358829</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520135</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358829</b>	Analysis Date: <b>06/29/2023</b>	Seq No: <b>12289662</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.08500 0.010 0.1000 85.0 85 115

Sample ID: <b>2306T46-069DMS</b>	Client ID: <b>SWC-1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520135</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358829</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12289375</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.08700 0.010 0.1000 87.0 90 110 S

Sample ID: <b>2306W47-001DMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520135</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358829</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12289384</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.07900 0.010 0.1000 79.0 90 110 S

Sample ID: <b>2306T46-069DMSD</b>	Client ID: <b>SWC-1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520135</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Cyanide SM4500 CN-C, E-2016</b>	BatchID: <b>358829</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12289378</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total

0.08200 0.010 0.1000 82.0 90 110 0.08700 5.92 20 S

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358836**

Sample ID: <b>MB-358836</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>MBLK</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290348</b>							
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: <b>LCS-358836</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>LCS</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290351</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09082	0.00600	0.1000		90.8	80	120				
Barium	0.08880	0.0200	0.1000		88.8	80	120				
Cadmium	0.09427	0.00500	0.1000		94.3	80	120				
Chromium	0.1041	0.0200	0.1000		104	80	120				
Cobalt	0.1107	0.0500	0.1000		111	80	120				
Copper	0.1120	0.0200	0.1000		112	80	120				
Lead	0.1007	0.0100	0.1000		101	80	120				
Nickel	0.1093	0.0400	0.1000		109	80	120				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358836**

Sample ID: <b>LCS-358836</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>LCS</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290351</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Selenium	0.08402	0.0500	0.1000		84.0	80	120				
Silver	0.01015	0.00500	0.0100		101	80	120				
Thallium	0.1019	0.00200	0.1000		102	80	120				
Vanadium	0.1061	0.0500	0.1000		106	80	120				

Sample ID: <b>LCS-358836</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>LCS</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12295998</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09293	0.0100	0.1000		92.9	80	120				
Beryllium	0.09153	0.00400	0.1000		91.5	80	120				
Zinc	0.09062	0.0200	0.1000		90.6	80	120				

Sample ID: <b>2306T46-097AMS</b>	Client ID: <b>GWC-4A</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>MS</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290353</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.08921	0.00600	0.1000		89.2	75	125				
Barium	0.1014	0.0200	0.1000	0.01362	87.8	75	125				
Cadmium	0.09424	0.00500	0.1000		94.2	75	125				
Chromium	0.1035	0.0200	0.1000		104	75	125				
Cobalt	0.1111	0.0500	0.1000		111	75	125				
Copper	0.1140	0.0200	0.1000	0.001229	113	75	125				
Lead	0.1006	0.0100	0.1000		101	75	125				
Nickel	0.1083	0.0400	0.1000	0.0003811	108	75	125				
Selenium	0.08549	0.0500	0.1000		85.5	75	125				
Silver	0.01003	0.00500	0.0100		100	75	125				
Thallium	0.09945	0.00200	0.1000		99.4	75	125				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358836**

Sample ID: <b>2306T46-097AMS</b>	Client ID: <b>GWC-4A</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>MS</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290353</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vanadium 0.1056 0.0500 0.1000 106 75 125

Sample ID: <b>2306T46-097AMS</b>	Client ID: <b>GWC-4A</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>MS</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>07/03/2023</b>	Seq No: <b>12299788</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 0.09086 0.0100 0.1000 0.0009973 89.9 75 125  
 Beryllium 0.09301 0.00400 0.1000 93.0 75 125  
 Zinc 0.09359 0.0200 0.1000 93.6 75 125

Sample ID: <b>2306T46-097AMSD</b>	Client ID: <b>GWC-4A</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>							
SampleType: <b>MSD</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12290354</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony 0.08163 0.00600 0.1000 81.6 75 125 0.08921 8.87 20  
 Barium 0.09272 0.0200 0.1000 0.01362 79.1 75 125 0.1014 8.94 20  
 Cadmium 0.09478 0.00500 0.1000 94.8 75 125 0.09424 0.577 20  
 Chromium 0.09410 0.0200 0.1000 94.1 75 125 0.1035 9.55 20  
 Cobalt 0.1015 0.0500 0.1000 101 75 125 0.1111 9.04 20  
 Copper 0.1045 0.0200 0.1000 0.001229 103 75 125 0.1140 8.72 20  
 Lead 0.09206 0.0100 0.1000 92.1 75 125 0.1006 8.89 20  
 Nickel 0.09961 0.0400 0.1000 0.0003811 99.2 75 125 0.1083 8.39 20  
 Selenium 0.08832 0.0500 0.1000 88.3 75 125 0.08549 3.25 20  
 Silver 0.009289 0.00500 0.0100 92.9 75 125 0.01003 7.68 20  
 Thallium 0.09202 0.00200 0.1000 92.0 75 125 0.09945 7.76 20  
 Vanadium 0.09665 0.0500 0.1000 96.7 75 125 0.1056 8.82 20

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358836**

Sample ID: <b>2306T46-097AMSD</b>	Client ID: <b>GWC-4A</b>	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520176</b>
SampleType: <b>MSD</b>	TestCode: <b>DISSOLVED APPENDIX I METALS SW6020B</b>	BatchID: <b>358836</b>	Analysis Date: <b>07/03/2023</b>	Seq No: <b>12299789</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.08712	0.0100	0.1000	0.0009973	86.1	75	125	0.09086	4.20	20	
Beryllium	0.09441	0.00400	0.1000		94.4	75	125	0.09301	1.49	20	
Zinc	0.09307	0.0200	0.1000		93.1	75	125	0.09359	0.562	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 358850**

Sample ID: <b>MB-358850</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520000</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>358850</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12287158</b>							
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: <b>LCS-358850</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520000</b>							
SampleType: <b>LCS</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>358850</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12287159</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004176 0.00020 0.0040 104 80 120

Sample ID: <b>2306S20-017CMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520000</b>							
SampleType: <b>MS</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>358850</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12287161</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004037 0.00020 0.0040 101 75 125

Sample ID: <b>2306S20-017CMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/28/2023</b>	Run No: <b>520000</b>							
SampleType: <b>MSD</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>358850</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12287163</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004157 0.00020 0.0040 104 75 125 0.004037 2.93 20

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359059**

Sample ID: <b>MB-359059</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296974</b>							
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									

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359059**

Sample ID: <b>MB-359059</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296974</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	49.50	0	50.00		99.0	70	126				
Surr: Dibromofluoromethane	55.55	0	50.00		111	77	121				
Surr: Toluene-d8	50.32	0	50.00		101	78.6	119				

Sample ID: <b>LCS-359059</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296801</b>							
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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359059**

Sample ID: <b>LCS-359059</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296801</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	17.57	5.0	20.00		87.8	71	130				
Benzene	17.95	5.0	20.00		89.8	78.8	120				
Chlorobenzene	18.18	5.0	20.00		90.9	80	118				
Toluene	17.96	5.0	20.00		89.8	76.6	125				
Trichloroethene	17.79	5.0	20.00		89.0	75.3	127				
Surr: 4-Bromofluorobenzene	48.52	0	50.00		97.0	70	126				
Surr: Dibromofluoromethane	49.65	0	50.00		99.3	77	121				
Surr: Toluene-d8	49.35	0	50.00		98.7	78.6	119				

Sample ID: <b>2306T46-049AMS</b>	Client ID: <b>GWC-8</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12305028</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	23.46	5.0	20.00		117	69	142				
Benzene	22.53	5.0	20.00		113	71.4	135				
Chlorobenzene	21.04	5.0	20.00		105	77.7	129				
Toluene	21.98	5.0	20.00		110	70.3	136				
Trichloroethene	21.77	5.0	20.00		109	77	134				
Surr: 4-Bromofluorobenzene	49.96	0	50.00		99.9	70	126				
Surr: Dibromofluoromethane	52.43	0	50.00		105	77	121				
Surr: Toluene-d8	51.40	0	50.00		103	78.6	119				

Sample ID: <b>2306T46-048ADUP</b>	Client ID: <b>GWC-10</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>							
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12305027</b>							
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	

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359059**

Sample ID: <b>2306T46-048ADUP</b>	Client ID: <b>GWC-10</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12305027</b>

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	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359059**

Sample ID: <b>2306T46-048ADUP</b>	Client ID: <b>GWC-10</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520426</b>							
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359059</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12305027</b>							
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	49.61	0	50.00		99.2	70	126	50.66	0	0	
Surr: Dibromofluoromethane	54.61	0	50.00		109	77	121	57.09	0	0	
Surr: Toluene-d8	50.60	0	50.00		101	78.6	119	52.05	0	0	

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359060**

Sample ID: <b>MB-359060</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296949</b>							
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									

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359060**

Sample ID: <b>MB-359060</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296949</b>							
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	48.70	0	50.00		97.4	70	126				
Surr: Dibromofluoromethane	50.96	0	50.00		102	77	121				
Surr: Toluene-d8	48.18	0	50.00		96.4	78.6	119				

Sample ID: <b>LCS-359060</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296998</b>							
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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359060**

Sample ID: <b>LCS-359060</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>06/30/2023</b>	Seq No: <b>12296998</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	22.75	5.0	20.00		114	71	130				
Benzene	21.93	5.0	20.00		110	78.8	120				
Chlorobenzene	20.49	5.0	20.00		102	80	118				
Toluene	21.48	5.0	20.00		107	76.6	125				
Trichloroethene	21.37	5.0	20.00		107	75.3	127				
Surr: 4-Bromofluorobenzene	49.88	0	50.00		99.8	70	126				
Surr: Dibromofluoromethane	53.14	0	50.00		106	77	121				
Surr: Toluene-d8	51.44	0	50.00		103	78.6	119				

Sample ID: <b>2306T48-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12296965</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	24.72	5.0	20.00		124	69	142				
Benzene	23.85	5.0	20.00		119	71.4	135				
Chlorobenzene	21.43	5.0	20.00		107	77.7	129				
Toluene	22.49	5.0	20.00		112	70.3	136				
Trichloroethene	22.37	5.0	20.00		112	77	134				
Surr: 4-Bromofluorobenzene	50.80	0	50.00		102	70	126				
Surr: Dibromofluoromethane	55.37	0	50.00		111	77	121				
Surr: Toluene-d8	52.36	0	50.00		105	78.6	119				

Sample ID: <b>2306T48-001ADUP</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>							
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12296964</b>							
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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359060**

Sample ID: <b>2306T48-001ADUP</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12296964</b>

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	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359060**

Sample ID: <b>2306T48-001ADUP</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2023</b>	Run No: <b>520435</b>							
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359060</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12296964</b>							
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	50.50	0	50.00		101	70	126	49.76	0	0	
Surr: Dibromofluoromethane	56.01	0	50.00		112	77	121	51.11	0	0	
Surr: Toluene-d8	50.49	0	50.00		101	78.6	119	48.61	0	0	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359061**

Sample ID: <b>MB-359061</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12297104</b>							
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									

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359061**

Sample ID: <b>MB-359061</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12297104</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	49.67	0	50.00		99.3	70	126				
Surr: Dibromofluoromethane	53.53	0	50.00		107	77	121				
Surr: Toluene-d8	49.42	0	50.00		98.8	78.6	119				

Sample ID: <b>LCS-359061</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12297264</b>							
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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359061**

Sample ID: <b>LCS-359061</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12297264</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	20.82	5.0	20.00		104	71	130				
Benzene	19.36	5.0	20.00		96.8	78.8	120				
Chlorobenzene	18.63	5.0	20.00		93.2	80	118				
Toluene	18.42	5.0	20.00		92.1	76.6	125				
Trichloroethene	18.87	5.0	20.00		94.4	75.3	127				
Surr: 4-Bromofluorobenzene	50.30	0	50.00		101	70	126				
Surr: Dibromofluoromethane	53.15	0	50.00		106	77	121				
Surr: Toluene-d8	50.88	0	50.00		102	78.6	119				

Sample ID: <b>2306T46-017AMS</b>	Client ID: <b>PHI-GWB-2</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/03/2023</b>	Seq No: <b>12298027</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	25.42	5.0	20.00		127	69	142				
Benzene	23.33	5.0	20.00		117	71.4	135				
Chlorobenzene	21.90	5.0	20.00		110	77.7	129				
Toluene	22.65	5.0	20.00		113	70.3	136				
Trichloroethene	22.34	5.0	20.00		112	77	134				
Surr: 4-Bromofluorobenzene	50.26	0	50.00		101	70	126				
Surr: Dibromofluoromethane	52.78	0	50.00		106	77	121				
Surr: Toluene-d8	51.30	0	50.00		103	78.6	119				

Sample ID: <b>2306T46-016ADUP</b>	Client ID: <b>PHI-GWA-3A</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>							
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/03/2023</b>	Seq No: <b>12298026</b>							
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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359061**

Sample ID: <b>2306T46-016ADUP</b>	Client ID: <b>PH1-GWA-3A</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/03/2023</b>	Seq No: <b>12298026</b>

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	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359061**

Sample ID: <b>2306T46-016ADUP</b>	Client ID: <b>PH1-GWA-3A</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520439</b>							
SampleType: <b>DUP</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>359061</b>	Analysis Date: <b>07/03/2023</b>	Seq No: <b>12298026</b>							
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	52.15	0	50.00		104	70	126	49.25	0	0	
Surr: Dibromofluoromethane	59.96	0	50.00		120	77	121	54.00	0	0	
Surr: Toluene-d8	51.88	0	50.00		104	78.6	119	49.59	0	0	

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359139**

Sample ID: <b>MB-359139</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12298171</b>							
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									

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359139**

Sample ID: <b>MB-359139</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12298171</b>							
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									

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359139**

Sample ID: <b>MB-359139</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12298171</b>							
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	41.66	0	50.00		83.3	70	126				
Surr: Dibromofluoromethane	42.90	0	50.00		85.8	77	121				
Surr: Toluene-d8	41.89	0	50.00		83.8	78.6	119				

Sample ID: <b>MB-359139</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12301846</b>							
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: <b>LCS-359139</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12298170</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.12	2.0	20.00		95.6	71	130				
Benzene	18.50	1.0	20.00		92.5	78.8	120				
Chlorobenzene	17.45	1.0	20.00		87.2	80	118				
Toluene	17.94	1.0	20.00		89.7	76.6	125				
Trichloroethene	18.42	1.0	20.00		92.1	75.3	127				
Surr: 4-Bromofluorobenzene	43.04	0	50.00		86.1	70	126				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359139**

Sample ID: <b>LCS-359139</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/01/2023</b>	Seq No: <b>12298170</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	45.87	0	50.00		91.7	77	121				
Surr: Toluene-d8	43.39	0	50.00		86.8	78.6	119				

Sample ID: <b>2306T46-076AMS</b>	Client ID: <b>GWC-17</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>MS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12298221</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	18.86	2.0	20.00		94.3	69	142				
Benzene	19.40	1.0	20.00		97.0	71.4	135				
Chlorobenzene	19.54	1.0	20.00		97.7	77.7	129				
Toluene	19.57	1.0	20.00		97.8	70.3	136				
Trichloroethene	19.33	1.0	20.00		96.6	77	134				
Surr: 4-Bromofluorobenzene	44.03	0	50.00		88.1	70	126				
Surr: Dibromofluoromethane	43.56	0	50.00		87.1	77	121				
Surr: Toluene-d8	46.05	0	50.00		92.1	78.6	119				

Sample ID: <b>2306T46-074ADUP</b>	Client ID: <b>AMW-13</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>							
SampleType: <b>DUP</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12298220</b>							
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	

**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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359139**

Sample ID: <b>2306T46-074ADUP</b>	Client ID: <b>AMW-13</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>
SampleType: <b>DUP</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12298220</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
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	
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	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359139**

Sample ID: <b>2306T46-074ADUP</b>	Client ID: <b>AMW-13</b>	Units: <b>ug/L</b>	Prep Date: <b>07/01/2023</b>	Run No: <b>520474</b>
SampleType: <b>DUP</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359139</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12298220</b>

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	1.0						0	0	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	
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	41.17	0	50.00		82.3	70	126	39.52	0	0	
Surr: Dibromofluoromethane	39.13	0	50.00		78.3	77	121	39.05	0	0	
Surr: Toluene-d8	48.48	0	50.00		97.0	78.6	119	42.92	0	0	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359151**

Sample ID: <b>MB-359151</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>07/05/2023</b>	Run No: <b>520572</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>359151</b>	Analysis Date: <b>07/05/2023</b>	Seq No: <b>12301771</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Zinc BRL 0.0200

Sample ID: <b>LCS-359151</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>07/05/2023</b>	Run No: <b>520572</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>359151</b>	Analysis Date: <b>07/05/2023</b>	Seq No: <b>12301772</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Zinc 0.09239 0.0200 0.1000 92.4 80 120

Sample ID: <b>2306T46-053AMS</b>	Client ID: <b>PH1-GWA-1</b>	Units: <b>mg/L</b>	Prep Date: <b>07/05/2023</b>	Run No: <b>520572</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>359151</b>	Analysis Date: <b>07/05/2023</b>	Seq No: <b>12301774</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Zinc 0.1227 0.0200 0.1000 0.03164 91.0 75 125

Sample ID: <b>2306T46-053AMSD</b>	Client ID: <b>PH1-GWA-1</b>	Units: <b>mg/L</b>	Prep Date: <b>07/05/2023</b>	Run No: <b>520572</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>359151</b>	Analysis Date: <b>07/05/2023</b>	Seq No: <b>12301775</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Zinc 0.1233 0.0200 0.1000 0.03164 91.7 75 125 0.1227 0.543 20

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359244**

Sample ID: <b>MB-359244</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12304058</b>							
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: <b>MB-359244</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12304267</b>							
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									

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359244**

Sample ID: <b>MB-359244</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12304267</b>							
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									
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									
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									

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359244**

Sample ID: <b>MB-359244</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12304267</b>							
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									
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									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	42.43	0	50.00		84.9	70	126				
Surr: Dibromofluoromethane	44.51	0	50.00		89.0	77	121				
Surr: Toluene-d8	44.58	0	50.00		89.2	78.6	119				

Sample ID: <b>LCS-359244</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12303838</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.85	2.0	20.00		99.2	71	130				
Benzene	20.36	1.0	20.00		102	78.8	120				
Chlorobenzene	19.69	1.0	20.00		98.4	80	118				
Toluene	19.43	1.0	20.00		97.2	76.6	125				
Trichloroethene	20.44	1.0	20.00		102	75.3	127				
Surr: 4-Bromofluorobenzene	43.86	0	50.00		87.7	70	126				
Surr: Dibromofluoromethane	45.86	0	50.00		91.7	77	121				

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359244**

Sample ID: <b>LCS-359244</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/02/2023</b>	Seq No: <b>12303838</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Toluene-d8 44.65 0 50.00 89.3 78.6 119

Sample ID: <b>2306V45-004AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>MS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/06/2023</b>	Seq No: <b>12306007</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 20.38 2.0 20.00 102 69 142  
 Benzene 25.19 1.0 20.00 5.040 101 71.4 135  
 Chlorobenzene 23.82 1.0 20.00 2.130 108 77.7 129  
 Toluene 22.50 1.0 20.00 112 70.3 136  
 Trichloroethene 24.06 1.0 20.00 3.250 104 77 134  
 Surr: 4-Bromofluorobenzene 41.71 0 50.00 83.4 70 126  
 Surr: Dibromofluoromethane 38.78 0 50.00 77.6 77 121  
 Surr: Toluene-d8 47.60 0 50.00 95.2 78.6 119

Sample ID: <b>2306U64-019ADUP</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>DUP</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/06/2023</b>	Seq No: <b>12306006</b>							
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

**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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359244**

Sample ID: <b>2306U64-019ADUP</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>
SampleType: <b>DUP</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/06/2023</b>	Seq No: <b>12306006</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
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	
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	BRL	1.0						0	0	30	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 359244**

Sample ID: <b>2306U64-019ADUP</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/02/2023</b>	Run No: <b>520633</b>							
SampleType: <b>DUP</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>359244</b>	Analysis Date: <b>07/06/2023</b>	Seq No: <b>12306006</b>							
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-1,3-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	
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	39.46	0	50.00		78.9	70	126	41.35	0	0	
Surr: Dibromofluoromethane	40.93	0	50.00		81.9	77	121	39.74	0	0	
Surr: Toluene-d8	45.99	0	50.00		92.0	78.6	119	44.60	0	0	

<b>Qualifiers:</b>	>	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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R520025**

Sample ID: <b>MB-R520025</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520025</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R520025</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12285724</b>							
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: <b>LCS-R520025</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520025</b>							
SampleType: <b>LCS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R520025</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12285725</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 490.0 10.0 500.0 98.0 90 110

Sample ID: <b>2306T46-101CMS</b>	Client ID: <b>SWC-3</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520025</b>							
SampleType: <b>MS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R520025</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12285743</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 363.6 12.5 375.0 10.27 94.2 90 110

Sample ID: <b>2306U96-001BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520025</b>							
SampleType: <b>MS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R520025</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12285728</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 386.2 12.5 375.0 19.32 97.8 90 110

Sample ID: <b>2306U96-001BMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520025</b>							
SampleType: <b>MSD</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R520025</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12285729</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 386.2 12.5 375.0 19.32 97.8 90 110 386.2 0 30

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R520037**

Sample ID: <b>MB-R520037</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520037</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R520037</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12286195</b>							
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: <b>LCS-R520037</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520037</b>							
SampleType: <b>LCS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R520037</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12286194</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.495 1.00 10.00 94.9 90 110

Sample ID: <b>2306T46-098DMS</b>	Client ID: <b>SWA-1</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520037</b>							
SampleType: <b>MS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R520037</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12286220</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.61 1.00 10.00 1.787 88.2 90 110 S

Sample ID: <b>2306T46-099DMS</b>	Client ID: <b>SWA-2</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520037</b>							
SampleType: <b>MS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R520037</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12286222</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.61 1.00 10.00 1.723 88.9 90 110 S

Sample ID: <b>2306T46-098DMSD</b>	Client ID: <b>SWA-1</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520037</b>							
SampleType: <b>MSD</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R520037</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12286221</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 10.75 1.00 10.00 1.787 89.6 90 110 10.61 1.33 20 S

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R520239**

Sample ID: <b>MB-R520239</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520239</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B-2014</b>	BatchID: <b>R520239</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12292307</b>							
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: <b>LCS-R520239</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520239</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B-2014</b>	BatchID: <b>R520239</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12292304</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.48 1.00 25.00 102 85 115

Sample ID: <b>2306T46-069FMS</b>	Client ID: <b>SWC-1</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520239</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B-2014</b>	BatchID: <b>R520239</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12292309</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

31.16 1.00 25.00 3.332 111 85 115

Sample ID: <b>2306V38-002FMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520239</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B-2014</b>	BatchID: <b>R520239</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12292349</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

55.63 1.00 25.00 28.26 109 85 115

Sample ID: <b>2306T46-069FMSD</b>	Client ID: <b>SWC-1</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520239</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B-2014</b>	BatchID: <b>R520239</b>	Analysis Date: <b>06/28/2023</b>	Seq No: <b>12292310</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

30.62 1.00 25.00 3.332 109 85 115 31.16 1.75 15

<b>Qualifiers:</b>	> 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:** 2306T46

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R520239**

Sample ID: <b>2306V38-002FMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>520239</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B-2014</b>	BatchID: <b>R520239</b>	Analysis Date: <b>06/29/2023</b>	Seq No: <b>12292351</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total	57.52	1.00	25.00	28.26	117	85	115	55.63	3.34	15	S
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<b>Qualifiers:</b>	>	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**  
**First 2023 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

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

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

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWC-2	TRUE	1%
Trichloroethene	PH1-GWB-2	FALSE	0.45%
Trichloroethene	PH1-GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWC-4	FALSE	0.45%
Trichloroethene	PH1-GWB-1	FALSE	0.45%
Trichloroethene	PH1-GWC-3	TRUE	0.45%
Trichloroethene	PH1-GWC-3A	TRUE	0.45%
Trichloroethene	GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1A	FALSE	0.45%
Trichloroethene	PH1-GWA-2	TRUE	0.45%
Trichloroethene	PH1-GWC-2	TRUE	0.45%
Barium	PH1-GWB-2	FALSE	1%
Barium	PH1-GWC-1	TRUE	1%
Barium	PH1-GWC-4	TRUE	1%
Barium	PH1-GWA-1A	TRUE	1%
Barium	PH1-GWB-1	TRUE	1%
Barium	PH1-GWC-2	FALSE	1%
Barium	PH1-GWC-3	TRUE	1%
Barium	PH1-GWC-3A	TRUE	1%
Barium	GWC-1	TRUE	1%
Barium	PH1-GWA-1	FALSE	1%
Barium	PH1-GWA-2	TRUE	1%
Barium	PH1-GWB-2	FALSE	0.45%
Barium	PH1-GWC-1	TRUE	0.45%
Barium	PH1-GWC-4	TRUE	0.45%
Barium	PH1-GWA-1A	TRUE	0.45%
Barium	PH1-GWB-1	TRUE	0.45%
Barium	PH1-GWC-2	FALSE	0.45%
Barium	PH1-GWC-3	TRUE	0.45%
Barium	PH1-GWC-3A	TRUE	0.45%
Barium	GWC-1	TRUE	0.45%
Barium	PH1-GWA-1	FALSE	0.45%
Barium	PH1-GWA-2	TRUE	0.45%
Chromium	PH1-GWB-2	FALSE	1%
Chromium	PH1-GWC-1	FALSE	1%
Chromium	PH1-GWC-4	FALSE	1%
Chromium	PH1-GWA-1A	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**  
**First 2023 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Chromium	PH1-GWB-1	FALSE	1%
Chromium	PH1-GWC-2	TRUE	1%
Chromium	PH1-GWC-3	FALSE	1%
Chromium	PH1-GWC-3A	FALSE	1%
Chromium	GWC-1	FALSE	1%
Chromium	PH1-GWA-1	FALSE	1%
Chromium	PH1-GWA-2	FALSE	1%
Chromium	PH1-GWB-2	FALSE	0.45%
Chromium	PH1-GWC-1	FALSE	0.45%
Chromium	PH1-GWC-4	FALSE	0.45%
Chromium	PH1-GWA-1A	FALSE	0.45%
Chromium	PH1-GWB-1	FALSE	0.45%
Chromium	PH1-GWC-2	FALSE	0.45%
Chromium	PH1-GWC-3	FALSE	0.45%
Chromium	PH1-GWC-3A	FALSE	0.45%
Chromium	GWC-1	FALSE	0.45%
Chromium	PH1-GWA-1	FALSE	0.45%
Chromium	PH1-GWA-2	FALSE	0.45%
Cobalt	PH1-GWB-2	FALSE	1%
Cobalt	PH1-GWC-1	FALSE	1%
Cobalt	PH1-GWC-4	FALSE	1%
Cobalt	PH1-GWA-1A	FALSE	1%
Cobalt	PH1-GWB-1	FALSE	1%
Cobalt	PH1-GWC-2	FALSE	1%
Cobalt	PH1-GWC-3	FALSE	1%
Cobalt	PH1-GWC-3A	FALSE	1%
Cobalt	GWC-1	FALSE	1%
Cobalt	PH1-GWA-1	TRUE	1%
Cobalt	PH1-GWA-2	FALSE	1%
Cobalt	PH1-GWB-2	FALSE	0.45%
Cobalt	PH1-GWC-1	FALSE	0.45%
Cobalt	PH1-GWC-4	FALSE	0.45%
Cobalt	PH1-GWA-1A	FALSE	0.45%
Cobalt	PH1-GWB-1	FALSE	0.45%
Cobalt	PH1-GWC-2	FALSE	0.45%
Cobalt	PH1-GWC-3	FALSE	0.45%
Cobalt	PH1-GWC-3A	FALSE	0.45%
Cobalt	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**  
**First 2023 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	PH1-GWA-1	TRUE	0.45%
Cobalt	PH1-GWA-2	FALSE	0.45%
Nickel	PH1-GWB-2	FALSE	5%
Nickel	PH1-GWC-1	FALSE	5%
Nickel	PH1-GWC-4	FALSE	5%
Nickel	PH1-GWA-1A	FALSE	5%
Nickel	PH1-GWB-1	FALSE	5%
Nickel	PH1-GWC-2	FALSE	5%
Nickel	PH1-GWC-3	FALSE	5%
Nickel	PH1-GWC-3A	FALSE	5%
Nickel	GWC-1	FALSE	5%
Nickel	PH1-GWA-1	FALSE	5%
Nickel	PH1-GWA-2	FALSE	5%
Zinc	PH1-GWB-2	TRUE	1%
Zinc	PH1-GWC-1	FALSE	1%
Zinc	PH1-GWC-4	FALSE	1%
Zinc	PH1-GWA-1A	FALSE	1%
Zinc	PH1-GWB-1	FALSE	1%
Zinc	PH1-GWC-2	FALSE	1%
Zinc	PH1-GWC-3	FALSE	1%
Zinc	PH1-GWC-3A	FALSE	1%
Zinc	GWC-1	FALSE	1%
Zinc	PH1-GWA-1	TRUE	1%
Zinc	PH1-GWA-2	FALSE	1%
Zinc	PH1-GWB-2	TRUE	0.45%
Zinc	PH1-GWC-1	FALSE	0.45%
Zinc	PH1-GWC-4	FALSE	0.45%
Zinc	PH1-GWA-1A	FALSE	0.45%
Zinc	PH1-GWB-1	FALSE	0.45%
Zinc	PH1-GWC-2	FALSE	0.45%
Zinc	PH1-GWC-3	FALSE	0.45%
Zinc	PH1-GWC-3A	FALSE	0.45%
Zinc	GWC-1	FALSE	0.45%
Zinc	PH1-GWA-1	TRUE	0.45%
Zinc	PH1-GWA-2	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	12/11/2017	ND<1	62
	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

Rank Sum = 744

Rank Mean = 62

PH1-GWA-4	12/12/2017	ND<1	62
	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

Rank Sum = 744

Rank Mean = 62

Background Rank Sum = 1488

Background Rank Mean = 62

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/11/2017	ND<1	62
	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
Rank Sum = 744			
Rank Mean = 62			

PH1-GWC-1	12/11/2017	ND<1	62
	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

Rank Sum = 744

Rank Mean = 62

PH1-GWC-4	12/11/2017	ND<1	62
	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 = 620

Rank Mean = 62

PH1-GWB-1	12/12/2017	ND<1	62
	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

Rank Sum = 744

Rank Mean = 62

PH1-GWC-3	12/12/2017	3.6	148
	6/19/2018	3.2	141
	12/18/2018	2.7	130
	6/10/2019	3.3	144
	12/9/2019	4	153
	6/22/2020	2.9	133
	12/15/2020	3.6	149
	6/14/2021	3.4	145
	12/14/2021	3.2	142
	6/7/2022	3.2	143

Forsyth County - Hightower Road Landfill - Phase I

1,1-Dichloroethane

	12/15/2022	4.5	154
	6/22/2023	3.4	146
Rank Sum = 1728			
Rank Mean = 144			

PH1-GWC-3A	12/12/2017	2.6	128
	6/19/2018	2.6	129
	12/18/2018	2.3	124
	6/10/2019	2.5	127
	12/9/2019	3.1	138
	6/26/2020	ND<1	62
	12/15/2020	3	135
	6/14/2021	2.8	131
	12/14/2021	2.3	125
	6/7/2022	3.1	139
	12/15/2022	3.6	150
	6/22/2023	ND<1	62

Rank Sum = 1450  
Rank Mean = 120.833

GWC-1	12/13/2017	ND<1	62
	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

Rank Sum = 744  
Rank Mean = 62

PH1-GWA-1	12/13/2017	ND<1	62
	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

Rank Sum = 744  
Rank Mean = 62

PH1-GWA-1A	12/13/2017	ND<1	62
	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

Forsyth County - Hightower Road Landfill - Phase I

1,1-Dichloroethane

	6/15/2021	ND<1	62
	12/13/2021	ND<1	62
	6/8/2022	ND<1	62
	12/15/2022	ND<1	62
	6/22/2023	ND<1	62

Rank Sum = 744  
Rank Mean = 62

PH1-GWA-2	12/13/2017	ND<1	62
	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

Rank Sum = 744  
Rank Mean = 62

PH1-GWC-2	12/13/2017	3.4	147
	6/19/2018	ND<1	62
	12/18/2018	2.8	132
	6/10/2019	3	136
	12/10/2019	3.7	151
	6/22/2020	3.1	140
	12/17/2020	3.8	152
	6/17/2021	3	137
	12/14/2021	2.9	134
	6/8/2022	ND<1	62
	12/14/2022	2.4	126
	6/22/2023	ND<1	62

Rank Sum = 1441  
Rank Mean = 120.083

**Calculation Results:**

Kruskal-Wallis H Statistic = 63.1973

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 128.842

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

**63.1973 > 19.6752 indicating a significant group difference at 5% significance level**

**128.842 > 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-GWB-2	62	0	36.6829
PH1-GWC-1	62	0	36.6829
PH1-GWC-4	62	0	39.052
PH1-GWB-1	62	0	36.6829
PH1-GWC-3	144	82	36.6829
PH1-GWC-3A	120.833	58.8333	36.6829

GWC-1	62	0	36.6829
PH1-GWA-1	62	0	36.6829
PH1-GWA-1A	62	0	36.6829
PH1-GWA-2	62	0	36.6829
<b>PH1-GWC-2</b>	<b>120.083</b>	<b>58.0833</b>	<b>36.6829</b>

**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-GWB-2	62	0	41.8194
PH1-GWC-1	62	0	41.8194
PH1-GWC-4	62	0	44.5202
PH1-GWB-1	62	0	41.8194
<b>PH1-GWC-3</b>	<b>144</b>	<b>82</b>	<b>41.8194</b>
<b>PH1-GWC-3A</b>	<b>120.833</b>	<b>58.8333</b>	<b>41.8194</b>
GWC-1	62	0	41.8194
PH1-GWA-1	62	0	41.8194
PH1-GWA-1A	62	0	41.8194
PH1-GWA-2	62	0	41.8194
<b>PH1-GWC-2</b>	<b>120.083</b>	<b>58.0833</b>	<b>41.8194</b>

**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	12/11/2017	ND<1	47
	6/18/2018	ND<1	47
	12/17/2018	ND<1	47
	6/13/2019	ND<1	47
	12/12/2019	ND<1	47
	6/25/2020	ND<1	47
	12/18/2020	ND<1	47
	6/15/2021	ND<1	47
	12/15/2021	ND<1	47
	6/6/2022	ND<1	47
	12/12/2022	ND<1	47
	6/20/2023	ND<1	47

Rank Sum = 564

Rank Mean = 47

PH1-GWA-4	12/12/2017	ND<1	47
	6/18/2018	ND<1	47
	12/18/2018	ND<1	47
	6/11/2019	ND<1	47
	12/9/2019	ND<1	47
	6/24/2020	ND<1	47
	12/15/2020	ND<1	47
	6/16/2021	ND<1	47
	12/14/2021	ND<1	47
	6/7/2022	ND<1	47
	12/15/2022	ND<1	47
	6/23/2023	ND<1	47

Rank Sum = 564

Rank Mean = 47

Background Rank Sum = 1128

Background Rank Mean = 47

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/11/2017	ND<1	47
	6/19/2018	ND<1	47
	12/17/2018	2.6	98
	6/12/2019	ND<1	47
	12/12/2019	ND<1	47
	6/24/2020	ND<1	47
	12/17/2020	ND<1	47
	6/16/2021	ND<1	47
	12/13/2021	ND<1	47
	6/9/2022	ND<1	47
	12/12/2022	ND<1	47



Forsyth County - Hightower Road Landfill - Phase I			cis-1,2-Dichloroethene
	6/20/2023	ND<1	47
Rank Sum = 615			
Rank Mean = 51.25			
<hr/>			
PH1-GWC-1	12/11/2017	ND<1	47
	6/19/2018	ND<1	47
	12/19/2018	ND<1	47
	6/13/2019	ND<1	47
	12/11/2019	ND<1	47
	6/22/2020	ND<1	47
	12/17/2020	ND<1	47
	6/16/2021	ND<1	47
	12/15/2021	ND<1	47
	6/9/2022	ND<1	47
	12/14/2022	ND<1	47
	6/19/2023	ND<1	47
Rank Sum = 564			
Rank Mean = 47			
<hr/>			
PH1-GWC-4	12/11/2017	ND<1	47
	6/19/2018	ND<1	47
	12/19/2018	ND<1	47
	6/13/2019	ND<1	47
	6/22/2020	ND<1	47
	12/17/2020	ND<1	47
	6/16/2021	ND<1	47
	12/15/2021	ND<1	47
	6/6/2022	ND<1	47
	6/19/2023	ND<1	47
Rank Sum = 470			
Rank Mean = 47			
<hr/>			
PH1-GWB-1	12/12/2017	ND<1	47
	6/18/2018	ND<1	47
	12/17/2018	ND<1	47
	6/11/2019	ND<1	47
	12/10/2019	ND<1	47
	6/24/2020	ND<1	47
	12/17/2020	ND<1	47
	6/14/2021	ND<1	47
	12/13/2021	ND<1	47
	6/7/2022	ND<1	47
	12/12/2022	ND<1	47
	6/20/2023	ND<1	47
Rank Sum = 564			
Rank Mean = 47			
<hr/>			
PH1-GWC-3	12/12/2017	15	126
	6/19/2018	15	127
	12/18/2018	15	128
	6/10/2019	19	132
	12/9/2019	27	142
	6/22/2020	20	135
	12/15/2020	26	138
	6/14/2021	28	143
	12/14/2021	25	137
	6/7/2022	26	139

Forsyth County - Hightower Road Landfill - Phase I			cis-1,2-Dichloroethene
	12/15/2022	36	148
	6/22/2023	28	144
Rank Sum = 1639			
Rank Mean = 136.583			
<hr/>			
PH1-GWC-3A	12/12/2017	10	120
	6/19/2018	12	122
	12/18/2018	9.2	119
	6/10/2019	11	121
	12/9/2019	16	129
	6/26/2020	14	124
	12/15/2020	16	130
	6/14/2021	19	133
	12/14/2021	14	125
	6/7/2022	19	134
	12/15/2022	23	136
	6/22/2023	13	123
Rank Sum = 1516			
Rank Mean = 126.333			
<hr/>			
GWC-1	12/13/2017	ND<1	47
	6/19/2018	ND<1	47
	12/17/2018	ND<1	47
	6/13/2019	ND<1	47
	12/10/2019	ND<1	47
	6/22/2020	ND<1	47
	12/16/2020	ND<1	47
	6/15/2021	ND<1	47
	12/15/2021	ND<1	47
	6/7/2022	ND<1	47
	12/12/2022	ND<1	47
	6/19/2023	ND<1	47
Rank Sum = 564			
Rank Mean = 47			
<hr/>			
PH1-GWA-1	12/13/2017	3.5	102
	6/19/2018	3.1	99
	12/18/2018	2.4	96
	6/10/2019	5.2	109
	12/9/2019	3.7	103
	6/22/2020	4	105
	12/15/2020	4.3	107
	6/15/2021	5.8	112
	12/13/2021	4.1	106
	6/8/2022	2.3	95
	12/14/2022	2.5	97
	6/20/2023	3.7	104
Rank Sum = 1235			
Rank Mean = 102.917			
<hr/>			
PH1-GWA-1A	12/13/2017	ND<1	47
	6/19/2018	ND<1	47
	12/18/2018	ND<1	47
	6/10/2019	ND<1	47
	12/10/2019	ND<1	47
	6/22/2020	ND<1	47
	12/18/2020	ND<1	47

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

6/15/2021	ND<1	47
12/13/2021	ND<1	47
6/8/2022	ND<1	47
12/15/2022	ND<1	47
6/22/2023	ND<1	47

Rank Sum = 564  
Rank Mean = 47

PH1-GWA-2	12/13/2017	64	153
	6/18/2018	46	150
	12/18/2018	55	152
	6/11/2019	26	140
	12/9/2019	120	154
	6/24/2020	42	149
	12/15/2020	52	151
	6/16/2021	34	145
	12/14/2021	35	146
	6/7/2022	26	141
	12/14/2022	35	147
	6/21/2023	16	131

Rank Sum = 1759  
Rank Mean = 146.583

PH1-GWC-2	12/13/2017	3.1	100
	6/19/2018	2.2	94
	12/18/2018	3.3	101
	6/10/2019	5.1	108
	12/10/2019	5.7	111
	6/22/2020	6	113
	12/17/2020	7.8	118
	6/17/2021	7	115
	12/14/2021	6.7	114
	6/8/2022	5.6	110
	12/14/2022	7.7	117
	6/22/2023	7	116

Rank Sum = 1317  
Rank Mean = 109.75

**Calculation Results:**

Kruskal-Wallis H Statistic = 116.913

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 149.93

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

**116.913 > 19.6752 indicating a significant group difference at 5% significance level**

**149.93 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	51.25	4.25	36.6829
PH1-GWC-1	47	0	36.6829
PH1-GWC-4	47	0	39.052
PH1-GWB-1	47	0	36.6829
PH1-GWC-3	136.583	89.5833	36.6829
PH1-GWC-3A	126.333	79.3333	36.6829

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

GWC-1	47	0	36.6829
PH1-GWA-1	102.917	55.9167	36.6829
PH1-GWA-1A	47	0	36.6829
PH1-GWA-2	146.583	99.5833	36.6829
PH1-GWC-2	109.75	62.75	36.6829

**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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	51.25	4.25	41.8194
PH1-GWC-1	47	0	41.8194
PH1-GWC-4	47	0	44.5202
PH1-GWB-1	47	0	41.8194
PH1-GWC-3	136.583	89.5833	41.8194
PH1-GWC-3A	126.333	79.3333	41.8194
GWC-1	47	0	41.8194
PH1-GWA-1	102.917	55.9167	41.8194
PH1-GWA-1A	47	0	41.8194
PH1-GWA-2	146.583	99.5833	41.8194
PH1-GWC-2	109.75	62.75	41.8194

**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	12/11/2017	ND<1	59
	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

Rank Sum = 708  
 Rank Mean = 59

PH1-GWA-4	12/12/2017	ND<1	59
	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

Rank Sum = 708  
 Rank Mean = 59

Background Rank Sum = 1416  
 Background Rank Mean = 59

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/11/2017	ND<1	59
	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  
 Rank Sum = 708  
 Rank Mean = 59

PH1-GWC-1	12/11/2017	ND<1	59
	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

Rank Sum = 708  
 Rank Mean = 59

PH1-GWC-4	12/11/2017	ND<1	59
	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 = 590  
 Rank Mean = 59

PH1-GWB-1	12/12/2017	ND<1	59
	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

Rank Sum = 708  
 Rank Mean = 59

PH1-GWC-3	12/12/2017	13	153
	6/19/2018	11	150
	12/18/2018	10	148
	6/10/2019	11	151
	12/9/2019	13	154
	6/22/2020	9	144
	12/15/2020	9.1	145
	6/14/2021	9.3	146
	12/14/2021	8.8	142
	6/7/2022	8.3	138

Forsyth County - Hightower Road Landfill - Phase I		Tetrachloroethene	
12/15/2022	9.5	147	
6/22/2023	8.3	139	
Rank Sum = 1757			
Rank Mean = 146.417			
PH1-GWC-3A	12/12/2017	10	149
	6/19/2018	11	152
	12/18/2018	8.7	141
	6/10/2019	8.8	143
	12/9/2019	7.4	136
	6/26/2020	ND<1	59
	12/15/2020	5.7	132
	6/14/2021	8.1	137
	12/14/2021	7.2	135
	6/7/2022	8.6	140
	12/15/2022	6.5	134
	6/22/2023	2	118
Rank Sum = 1576			
Rank Mean = 131.333			
GWC-1	12/13/2017	ND<1	59
	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
Rank Sum = 708			
Rank Mean = 59			
PH1-GWA-1	12/13/2017	ND<1	59
	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
Rank Sum = 768			
Rank Mean = 64			
PH1-GWA-1A	12/13/2017	ND<1	59
	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

Forsyth County - Hightower Road Landfill - Phase I		Tetrachloroethene	
6/15/2021	ND<1	59	
12/13/2021	ND<1	59	
6/8/2022	ND<1	59	
12/15/2022	ND<1	59	
6/22/2023	ND<1	59	
Rank Sum = 708			
Rank Mean = 59			
PH1-GWA-2	12/13/2017	2.3	120
	6/18/2018	ND<1	59
	12/18/2018	ND<1	59
	6/11/2019	ND<1	59
	12/9/2019	2.4	121
	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
Rank Sum = 831			
Rank Mean = 69.25			
PH1-GWC-2	12/13/2017	5.1	129
	6/19/2018	ND<1	59
	12/18/2018	5.1	130
	6/10/2019	4.2	126
	12/10/2019	6.3	133
	6/22/2020	4.6	128
	12/17/2020	5.3	131
	6/17/2021	3.7	125
	12/14/2021	2.9	122
	6/8/2022	3.4	124
	12/14/2022	4.4	127
	6/22/2023	2.9	123
Rank Sum = 1457			
Rank Mean = 121.417			
<b>Calculation Results:</b>			
Kruskal-Wallis H Statistic = 75.4536			
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 134.382			
95% Confidence comparison value is 19.6752 at 11 degrees of freedom			
<b>75.4536 &gt; 19.6752 indicating a significant group difference at 5% significance level</b>			
<b>134.382 &gt; 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties</b>			
<b>Individual Well Comparisons at 1% Significance Level per Comparison</b>			
1% Z score is 2.32634			
Mean background rank is 59			
Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	59	0	36.6829
PH1-GWC-1	59	0	36.6829
PH1-GWC-4	59	0	39.052
PH1-GWB-1	59	0	36.6829
PH1-GWC-3	146.417	87.4167	36.6829
PH1-GWC-3A	131.333	72.3333	36.6829

Forsyth County - Hightower Road Landfill - Phase I

Tetrachloroethene

GWC-1	59	0	36.6829
PH1-GWA-1	64	5	36.6829
PH1-GWA-1A	59	0	36.6829
PH1-GWA-2	69.25	10.25	36.6829
<b>PH1-GWC-2</b>	<b>121.417</b>	<b>62.4167</b>	<b>36.6829</b>

**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-GWB-2	59	0	41.8194
PH1-GWC-1	59	0	41.8194
PH1-GWC-4	59	0	44.5202
PH1-GWB-1	59	0	41.8194
<b>PH1-GWC-3</b>	<b>146.417</b>	<b>87.4167</b>	<b>41.8194</b>
<b>PH1-GWC-3A</b>	<b>131.333</b>	<b>72.3333</b>	<b>41.8194</b>
GWC-1	59	0	41.8194
PH1-GWA-1	64	5	41.8194
PH1-GWA-1A	59	0	41.8194
PH1-GWA-2	69.25	10.25	41.8194
<b>PH1-GWC-2</b>	<b>121.417</b>	<b>62.4167</b>	<b>41.8194</b>

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Trichloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/12/2019	ND<1	55.5
	6/25/2020	ND<1	55.5
	12/18/2020	ND<1	55.5
	6/15/2021	ND<1	55.5
	12/15/2021	ND<1	55.5
	6/6/2022	ND<1	55.5
12/12/2022	ND<1	55.5	
6/20/2023	ND<1	55.5	

Rank Sum = 666

Rank Mean = 55.5

PH1-GWA-4	12/12/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/11/2019	ND<1	55.5
	12/9/2019	ND<1	55.5
	6/24/2020	ND<1	55.5
	12/15/2020	ND<1	55.5
	6/16/2021	ND<1	55.5
	12/14/2021	ND<1	55.5
	6/7/2022	ND<1	55.5
	12/15/2022	ND<1	55.5
	6/23/2023	ND<1	55.5

Rank Sum = 666

Rank Mean = 55.5

Background Rank Sum = 1332

Background Rank Mean = 55.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/12/2019	ND<1	55.5
	12/12/2019	ND<1	55.5
	6/24/2020	ND<1	55.5
	12/17/2020	ND<1	55.5
	6/16/2021	ND<1	55.5
	12/13/2021	ND<1	55.5
	6/9/2022	ND<1	55.5
	12/12/2022	ND<1	55.5

Forsyth County - Hightower Road Landfill - Phase I			Trichloroethene
6/20/2023	ND<1	55.5	
Rank Sum = 666			
Rank Mean = 55.5			
<hr/>			
PH1-GWC-1	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/19/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/11/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/17/2020	ND<1	55.5
	6/16/2021	ND<1	55.5
	12/15/2021	ND<1	55.5
	6/9/2022	ND<1	55.5
	12/14/2022	ND<1	55.5
	6/19/2023	ND<1	55.5
Rank Sum = 666			
Rank Mean = 55.5			
<hr/>			
PH1-GWC-4	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/19/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/17/2020	ND<1	55.5
	6/16/2021	ND<1	55.5
	12/15/2021	ND<1	55.5
	6/6/2022	ND<1	55.5
	6/19/2023	ND<1	55.5
Rank Sum = 555			
Rank Mean = 55.5			
<hr/>			
PH1-GWB-1	12/12/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/11/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/24/2020	ND<1	55.5
	12/17/2020	ND<1	55.5
	6/14/2021	ND<1	55.5
	12/13/2021	ND<1	55.5
	6/7/2022	ND<1	55.5
	12/12/2022	ND<1	55.5
	6/20/2023	ND<1	55.5
Rank Sum = 666			
Rank Mean = 55.5			
<hr/>			
PH1-GWC-3	12/12/2017	8.4	151
	6/19/2018	6.9	140
	12/18/2018	6.8	137
	6/10/2019	7.4	145
	12/9/2019	8.7	153
	6/22/2020	7.1	141
	12/15/2020	7.6	147
	6/14/2021	7.5	146
	12/14/2021	7.1	142
	6/7/2022	7.2	143

Forsyth County - Hightower Road Landfill - Phase I			Trichloroethene
12/15/2022	9.5	154	
6/22/2023	8	148	
Rank Sum = 1747			
Rank Mean = 145.583			
<hr/>			
PH1-GWC-3A	12/12/2017	6.6	136
	6/19/2018	6.8	138
	12/18/2018	5.8	133
	6/10/2019	5.7	131
	12/9/2019	8.4	152
	6/26/2020	2.8	125
	12/15/2020	8.1	150
	6/14/2021	6.1	135
	12/14/2021	5.7	132
	6/7/2022	6.8	139
	12/15/2022	8	149
	6/22/2023	5.5	130
Rank Sum = 1650			
Rank Mean = 137.5			
<hr/>			
GWC-1	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/16/2020	ND<1	55.5
	6/15/2021	ND<1	55.5
	12/15/2021	ND<1	55.5
	6/7/2022	ND<1	55.5
	12/12/2022	ND<1	55.5
	6/19/2023	ND<1	55.5
Rank Sum = 666			
Rank Mean = 55.5			
<hr/>			
PH1-GWA-1	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/10/2019	ND<1	55.5
	12/9/2019	3.1	127
	6/22/2020	ND<1	55.5
	12/15/2020	ND<1	55.5
	6/15/2021	ND<1	55.5
	12/13/2021	ND<1	55.5
	6/8/2022	ND<1	55.5
	12/14/2022	ND<1	55.5
	6/20/2023	ND<1	55.5
Rank Sum = 737.5			
Rank Mean = 61.4583			
<hr/>			
PH1-GWA-1A	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/10/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/22/2020	ND<1	55.5
	12/18/2020	ND<1	55.5

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

6/15/2021	ND<1	55.5
12/13/2021	ND<1	55.5
6/8/2022	ND<1	55.5
12/15/2022	ND<1	55.5
6/22/2023	ND<1	55.5

Rank Sum = 666  
Rank Mean = 55.5

PH1-GWA-2	12/13/2017	5.8	134
	6/18/2018	4.2	129
	12/18/2018	4	128
	6/11/2019	2.1	114
	12/9/2019	7.3	144
	6/24/2020	2.4	118
	12/15/2020	2.5	120
	6/16/2021	2.4	119
	12/14/2021	2	111
	6/7/2022	ND<1	55.5
	12/14/2022	2.2	117
	6/21/2023	ND<1	55.5

Rank Sum = 1345  
Rank Mean = 112.083

PH1-GWC-2	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	2	112
	6/10/2019	2	113
	12/10/2019	2.6	122
	6/22/2020	2.1	115
	12/17/2020	2.5	121
	6/17/2021	2.7	123
	12/14/2021	3	126
	6/8/2022	2.1	116
	12/14/2022	2.7	124
	6/22/2023	ND<1	55.5

Rank Sum = 1238.5  
Rank Mean = 103.208

**Calculation Results:**

Kruskal-Wallis H Statistic = 85.3077

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 134.22

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

**85.3077 > 19.6752 indicating a significant group difference at 5% significance level**

**134.22 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 55.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	55.5	0	36.6829
PH1-GWC-1	55.5	0	36.6829
PH1-GWC-4	55.5	0	39.052
PH1-GWB-1	55.5	0	36.6829
PH1-GWC-3	145.583	90.0833	36.6829
PH1-GWC-3A	137.5	82	36.6829

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

GWC-1	55.5	0	36.6829
PH1-GWA-1	61.4583	5.95833	36.6829
PH1-GWA-1A	55.5	0	36.6829
PH1-GWA-2	112.083	56.5833	36.6829
PH1-GWC-2	103.208	47.7083	36.6829

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

0.454545% Z score is 2.65209

Mean background rank is 55.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	55.5	0	41.8194
PH1-GWC-1	55.5	0	41.8194
PH1-GWC-4	55.5	0	44.5202
PH1-GWB-1	55.5	0	41.8194
PH1-GWC-3	145.583	90.0833	41.8194
PH1-GWC-3A	137.5	82	41.8194
GWC-1	55.5	0	41.8194
PH1-GWA-1	61.4583	5.95833	41.8194
PH1-GWA-1A	55.5	0	41.8194
PH1-GWA-2	112.083	56.5833	41.8194
PH1-GWC-2	103.208	47.7083	41.8194

**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	12/11/2017	ND<10	20.5
	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

Rank Sum = 246  
 Rank Mean = 20.5

PH1-GWA-4	12/13/2017	37	103
	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

Rank Sum = 328.5  
 Rank Mean = 27.375

Background Rank Sum = 574.5  
 Background Rank Mean = 23.9375

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/12/2017	ND<10	20.5
	6/20/2018	ND<10	20.5
	12/18/2018	22	47
	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 42  
 Rank Sum = 294  
 Rank Mean = 24.5

PH1-GWC-1	12/12/2017	38	104
	6/20/2018	42	109
	12/20/2018	47	115
	6/13/2019	50	118
	12/12/2019	43.7	113
	6/23/2020	42.8	112
	12/18/2020	32.1	96
	6/17/2021	42.1	111
	12/16/2021	30.6	94
	6/10/2022	42	110
	12/15/2022	34.3	101
	6/20/2023	39.9	106

Rank Sum = 1289  
 Rank Mean = 107.417

PH1-GWC-4	12/12/2017	54	122
	6/20/2018	34	99
	12/20/2018	310	154
	6/13/2019	32	95
	6/23/2020	25.2	66
	12/18/2020	56.4	124
	6/17/2021	33	97
	12/16/2021	41.3	108
	6/7/2022	26.6	75
	6/20/2023	22.6	48

Rank Sum = 988  
 Rank Mean = 98.8

PH1-GWA-1A	12/13/2017	27	77
	6/20/2018	25	65
	12/19/2018	27	78
	6/11/2019	24	55
	12/10/2019	23.4	52
	6/22/2020	21.7	46
	12/18/2020	27.4	82
	6/16/2021	24.8	63
	12/14/2021	22.6	49
	6/8/2022	25.9	71
	12/15/2022	35.1	102
	6/22/2023	25.4	68

Rank Sum = 808  
 Rank Mean = 67.3333

PH1-GWB-1	12/13/2017	54	123
	6/19/2018	62	128
	12/18/2018	53	120
	6/12/2019	82	141
	12/11/2019	67	132
	6/25/2020	79.3	137
	12/18/2020	50.5	119
	6/15/2021	63.1	129
	12/14/2021	56.8	125
	6/8/2022	53.7	121



Forsyth County - Hightower Road Landfill - Phase I

Barium

	12/13/2022	40.1	107
	6/21/2023	45.1	114

Rank Sum = 1496  
Rank Mean = 124.667

PH1-GWC-2	12/13/2017	ND<10	20.5
	6/19/2018	ND<10	20.5
	12/18/2018	26	73
	6/10/2019	39	105
	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	44
	12/17/2021	ND<10	20.5
	6/8/2022	20.9	45
	12/14/2022	24.7	61
	6/22/2023	48.5	116

Rank Sum = 644.5  
Rank Mean = 53.7083

PH1-GWC-3	12/13/2017	27	79
	6/20/2018	23	51
	12/19/2018	27	80
	6/11/2019	30	90
	12/10/2019	24.7	62
	6/23/2020	23.6	53
	12/16/2020	25.6	70
	6/15/2021	24.3	59
	12/15/2021	28.8	88
	6/8/2022	25.5	69
	12/15/2022	29.2	89
	6/22/2023	27.6	83

Rank Sum = 873  
Rank Mean = 72.75

PH1-GWC-3A	12/13/2017	27	81
	6/28/2018	26	74
	12/19/2018	24	56
	6/11/2019	30	91
	12/10/2019	24.9	64
	6/23/2020	23.9	54
	12/16/2020	25.9	72
	6/15/2021	30.5	93
	12/15/2021	28.5	86
	6/8/2022	30.1	92
	12/15/2022	28.2	85
	6/22/2023	26.9	76

Rank Sum = 924  
Rank Mean = 77

GWC-1	12/14/2017	88	147
	6/20/2018	94	150
	12/18/2018	150	153
	6/13/2019	93	148
	12/11/2019	85.2	145
	6/23/2020	95.3	152
	12/17/2020	81.1	140

Forsyth County - Hightower Road Landfill - Phase I

Barium

	6/16/2021	86.1	146
	12/16/2021	84	142
	6/8/2022	79.1	136
	12/13/2022	93.1	149
	6/20/2023	95.1	151

Rank Sum = 1759  
Rank Mean = 146.583

PH1-GWA-1	12/14/2017	20	41
	6/20/2018	34	100
	12/19/2018	24	57
	6/11/2019	24	58
	12/10/2019	20.3	43
	6/23/2020	27.7	84
	12/16/2020	ND<10	20.5
	6/16/2021	28.7	87
	12/14/2021	22.8	50
	6/9/2022	25.3	67
	12/15/2022	ND<10	20.5
	6/21/2023	24.6	60

Rank Sum = 688  
Rank Mean = 57.3333

PH1-GWA-2	12/14/2017	80	138
	6/19/2018	61	127
	12/19/2018	81	139
	6/12/2019	84	143
	12/10/2019	84.2	144
	6/25/2020	64.6	130
	12/16/2020	65.5	131
	6/17/2021	71.7	135
	12/15/2021	71.6	134
	6/8/2022	59	126
	12/15/2022	68.9	133
	6/22/2023	48.5	117

Rank Sum = 1597  
Rank Mean = 133.083

**Calculation Results:**

Kruskal-Wallis H Statistic = 126.72

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 128.979

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

**126.72 > 19.6752 indicating a significant group difference at 5% significance level**

**128.979 > 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 23.9375

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	24.5	0.5625	36.6829
PH1-GWC-1	107.417	83.4792	36.6829
PH1-GWC-4	98.8	74.8625	39.052
PH1-GWA-1A	67.3333	43.3958	36.6829
PH1-GWB-1	124.667	100.729	36.6829
PH1-GWC-2	53.7083	29.7708	36.6829

PH1-GWC-3	72.75	48.8125	36.6829
PH1-GWC-3A	77	53.0625	36.6829
GWC-1	146.583	122.646	36.6829
PH1-GWA-1	57.3333	33.3958	36.6829
PH1-GWA-2	133.083	109.146	36.6829

**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 23.9375

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	24.5	0.5625	41.8194
PH1-GWC-1	107.417	83.4792	41.8194
PH1-GWC-4	98.8	74.8625	44.5202
PH1-GWA-1A	67.3333	43.3958	41.8194
PH1-GWB-1	124.667	100.729	41.8194
PH1-GWC-2	53.7083	29.7708	41.8194
PH1-GWC-3	72.75	48.8125	41.8194
PH1-GWC-3A	77	53.0625	41.8194
GWC-1	146.583	122.646	41.8194
PH1-GWA-1	57.3333	33.3958	41.8194
PH1-GWA-2	133.083	109.146	41.8194

**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	12/11/2017	ND<5	72.5
	6/18/2018	ND<5	72.5
	12/17/2018	ND<5	72.5
	6/13/2019	ND<5	72.5
	12/12/2019	ND<5	72.5
	6/25/2020	ND<5	72.5
	12/18/2020	ND<5	72.5
	6/15/2021	ND<5	72.5
	12/15/2021	ND<5	72.5
	6/6/2022	ND<5	72.5
	12/12/2022	ND<5	72.5
6/20/2023	ND<5	72.5	

Rank Sum = 870

Rank Mean = 72.5

PH1-GWA-4	12/13/2017	ND<5	72.5
	6/19/2018	ND<5	72.5
	12/19/2018	ND<5	72.5
	6/12/2019	ND<5	72.5
	12/10/2019	ND<5	72.5
	6/25/2020	ND<5	72.5
	12/16/2020	ND<5	72.5
	6/17/2021	ND<5	72.5
	12/15/2021	ND<5	72.5
	6/8/2022	ND<5	72.5
	12/15/2022	ND<5	72.5
	6/23/2023	ND<5	72.5

Rank Sum = 870

Rank Mean = 72.5

Background Rank Sum = 1740

Background Rank Mean = 72.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/12/2017	ND<5	72.5
	6/20/2018	ND<5	72.5
	12/18/2018	ND<5	72.5
	6/13/2019	ND<5	72.5
	12/13/2019	ND<5	72.5
	6/25/2020	ND<5	72.5
	12/18/2020	ND<5	72.5
	6/17/2021	ND<5	72.5
	12/14/2021	ND<5	72.5
	6/10/2022	ND<5	72.5
	12/13/2022	ND<5	72.5

Forsyth County - Hightower Road Landfill - Phase I

Chromium

6/21/2023 ND<5 72.5

Rank Sum = 870

Rank Mean = 72.5

PH1-GWC-1 12/12/2017 ND<5 72.5  
 6/20/2018 ND<5 72.5  
 12/20/2018 ND<5 72.5  
 6/13/2019 ND<5 72.5  
 12/12/2019 ND<5 72.5  
 6/23/2020 ND<5 72.5  
 12/18/2020 ND<5 72.5  
 6/17/2021 ND<5 72.5  
 12/16/2021 ND<5 72.5  
 6/10/2022 ND<5 72.5  
 12/15/2022 ND<5 72.5  
 6/20/2023 ND<5 72.5

Rank Sum = 870

Rank Mean = 72.5

PH1-GWC-4 12/12/2017 ND<5 72.5  
 6/20/2018 ND<5 72.5  
 12/20/2018 49 153  
 6/13/2019 ND<5 72.5  
 6/23/2020 ND<5 72.5  
 12/18/2020 ND<5 72.5  
 6/17/2021 ND<5 72.5  
 12/16/2021 ND<5 72.5  
 6/7/2022 ND<5 72.5  
 6/20/2023 ND<5 72.5

Rank Sum = 805.5

Rank Mean = 80.55

PH1-GWA-1A 12/13/2017 ND<5 72.5  
 6/20/2018 ND<5 72.5  
 12/19/2018 ND<5 72.5  
 6/11/2019 11 145  
 12/10/2019 ND<5 72.5  
 6/22/2020 ND<5 72.5  
 12/18/2020 ND<5 72.5  
 6/16/2021 ND<5 72.5  
 12/14/2021 ND<5 72.5  
 6/8/2022 19.9 150  
 12/15/2022 17.2 149  
 6/22/2023 ND<5 72.5

Rank Sum = 1096.5

Rank Mean = 91.375

PH1-GWB-1 12/13/2017 ND<5 72.5  
 6/19/2018 ND<5 72.5  
 12/18/2018 ND<5 72.5  
 6/12/2019 ND<5 72.5  
 12/11/2019 ND<5 72.5  
 6/25/2020 ND<5 72.5  
 12/18/2020 ND<5 72.5  
 6/15/2021 ND<5 72.5  
 12/14/2021 ND<5 72.5  
 6/8/2022 ND<5 72.5

Forsyth County - Hightower Road Landfill - Phase I

Chromium

12/13/2022 ND<5 72.5

6/21/2023 ND<5 72.5

Rank Sum = 870

Rank Mean = 72.5

PH1-GWC-2 12/13/2017 ND<5 72.5  
 6/19/2018 12 147  
 12/18/2018 ND<5 72.5  
 6/10/2019 69 154  
 12/10/2019 ND<5 72.5  
 6/22/2020 27.2 151  
 12/17/2020 ND<5 72.5  
 6/17/2021 ND<5 72.5  
 12/17/2021 ND<5 72.5  
 6/8/2022 15.7 148  
 12/14/2022 11.5 146  
 6/22/2023 37 152

Rank Sum = 1333

Rank Mean = 111.083

PH1-GWC-3 12/13/2017 ND<5 72.5  
 6/20/2018 ND<5 72.5  
 12/19/2018 ND<5 72.5  
 6/11/2019 ND<5 72.5  
 12/10/2019 ND<5 72.5  
 6/23/2020 ND<5 72.5  
 12/16/2020 ND<5 72.5  
 6/15/2021 ND<5 72.5  
 12/15/2021 ND<5 72.5  
 6/8/2022 ND<10 72.5  
 12/15/2022 ND<5 72.5  
 6/22/2023 ND<5 72.5

Rank Sum = 870

Rank Mean = 72.5

PH1-GWC-3A 12/13/2017 ND<5 72.5  
 6/28/2018 ND<5 72.5  
 12/19/2018 ND<5 72.5  
 6/11/2019 ND<5 72.5  
 12/10/2019 ND<5 72.5  
 6/23/2020 ND<5 72.5  
 12/16/2020 ND<5 72.5  
 6/15/2021 ND<5 72.5  
 12/15/2021 ND<5 72.5  
 6/8/2022 ND<10 72.5  
 12/15/2022 ND<5 72.5  
 6/22/2023 ND<5 72.5

Rank Sum = 870

Rank Mean = 72.5

GWC-1 12/14/2017 ND<5 72.5  
 6/20/2018 ND<5 72.5  
 12/18/2018 ND<5 72.5  
 6/13/2019 ND<5 72.5  
 12/11/2019 ND<5 72.5  
 6/23/2020 ND<5 72.5  
 12/17/2020 ND<5 72.5

Forsyth County - Hightower Road Landfill - Phase I

Chromium

6/16/2021	ND<5	72.5
12/16/2021	ND<5	72.5
6/8/2022	ND<5	72.5
12/13/2022	ND<5	72.5
6/20/2023	ND<5	72.5

Rank Sum = 870  
Rank Mean = 72.5

PH1-GWA-1	12/14/2017	ND<5	72.5
	6/20/2018	ND<5	72.5
	12/19/2018	ND<5	72.5
	6/11/2019	ND<5	72.5
	12/10/2019	ND<5	72.5
	6/23/2020	ND<5	72.5
	12/16/2020	ND<5	72.5
	6/16/2021	ND<5	72.5
	12/14/2021	ND<5	72.5
	6/9/2022	ND<5	72.5
	12/15/2022	ND<5	72.5
	6/21/2023	ND<5	72.5

Rank Sum = 870  
Rank Mean = 72.5

PH1-GWA-2	12/14/2017	ND<5	72.5
	6/19/2018	ND<5	72.5
	12/19/2018	ND<5	72.5
	6/12/2019	ND<5	72.5
	12/10/2019	ND<5	72.5
	6/25/2020	ND<5	72.5
	12/16/2020	ND<5	72.5
	6/17/2021	ND<5	72.5
	12/15/2021	ND<5	72.5
	6/8/2022	ND<10	72.5
	12/15/2022	ND<5	72.5
	6/22/2023	ND<5	72.5

Rank Sum = 870  
Rank Mean = 72.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 9.52022

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 52.1844

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

9.52022 < 19.6752 indicating no significant group difference at 5% significance level

**52.1844 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 72.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	72.5	0	36.6829
PH1-GWC-1	72.5	0	36.6829
PH1-GWC-4	80.55	8.05	39.052
PH1-GWA-1A	91.375	18.875	36.6829
PH1-GWB-1	72.5	0	36.6829
<b>PH1-GWC-2</b>	<b>111.083</b>	<b>38.5833</b>	<b>36.6829</b>

Forsyth County - Hightower Road Landfill - Phase I

Chromium

PH1-GWC-3	72.5	0	36.6829
PH1-GWC-3A	72.5	0	36.6829
GWC-1	72.5	0	36.6829
PH1-GWA-1	72.5	0	36.6829
PH1-GWA-2	72.5	0	36.6829

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

0.454545% Z score is 2.65209

Mean background rank is 72.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	72.5	0	41.8194
PH1-GWC-1	72.5	0	41.8194
PH1-GWC-4	80.55	8.05	44.5202
PH1-GWA-1A	91.375	18.875	41.8194
PH1-GWB-1	72.5	0	41.8194
PH1-GWC-2	111.083	38.5833	41.8194
PH1-GWC-3	72.5	0	41.8194
PH1-GWC-3A	72.5	0	41.8194
GWC-1	72.5	0	41.8194
PH1-GWA-1	72.5	0	41.8194
PH1-GWA-2	72.5	0	41.8194

**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	12/11/2017	ND<20	71.5
	6/18/2018	ND<20	71.5
	12/17/2018	ND<20	71.5
	6/13/2019	ND<20	71.5
	12/12/2019	ND<20	71.5
	6/25/2020	ND<20	71.5
	12/18/2020	ND<20	71.5
	6/15/2021	ND<20	71.5
	12/15/2021	ND<20	71.5
	6/6/2022	ND<20	71.5
	12/12/2022	ND<20	71.5
	6/20/2023	ND<20	71.5

Rank Sum = 858  
 Rank Mean = 71.5

PH1-GWA-4	12/13/2017	ND<20	71.5
	6/19/2018	ND<20	71.5
	12/19/2018	ND<20	71.5
	6/12/2019	ND<20	71.5
	12/10/2019	ND<20	71.5
	6/25/2020	ND<20	71.5
	12/16/2020	ND<20	71.5
	6/17/2021	ND<20	71.5
	12/15/2021	ND<20	71.5
	6/8/2022	ND<20	71.5
	12/15/2022	ND<20	71.5
	6/23/2023	ND<20	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-GWB-2	12/12/2017	ND<20	71.5
	6/20/2018	ND<20	71.5
	12/18/2018	ND<20	71.5
	6/13/2019	ND<20	71.5
	12/13/2019	ND<20	71.5
	6/25/2020	ND<20	71.5
	12/18/2020	ND<20	71.5
	6/17/2021	ND<20	71.5
	12/14/2021	ND<20	71.5
	6/10/2022	ND<20	71.5
	12/13/2022	ND<20	71.5

6/21/2023 ND<20 71.5  
 Rank Sum = 858  
 Rank Mean = 71.5

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PH1-GWC-1	12/12/2017	ND<20	71.5
	6/20/2018	ND<20	71.5
	12/20/2018	ND<20	71.5
	6/13/2019	ND<20	71.5
	12/12/2019	ND<20	71.5
	6/23/2020	ND<20	71.5
	12/18/2020	ND<20	71.5
	6/17/2021	ND<20	71.5
	12/16/2021	ND<20	71.5
	6/10/2022	ND<20	71.5
	12/15/2022	ND<20	71.5
	6/20/2023	ND<20	71.5

Rank Sum = 858  
 Rank Mean = 71.5

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PH1-GWC-4	12/12/2017	ND<20	71.5
	6/20/2018	ND<20	71.5
	12/20/2018	ND<20	71.5
	6/13/2019	ND<20	71.5
	6/23/2020	ND<20	71.5
	12/18/2020	ND<20	71.5
	6/17/2021	ND<20	71.5
	12/16/2021	ND<20	71.5
	6/7/2022	ND<20	71.5
	6/20/2023	ND<20	71.5

Rank Sum = 715  
 Rank Mean = 71.5

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PH1-GWA-1A	12/13/2017	ND<20	71.5
	6/20/2018	ND<20	71.5
	12/19/2018	ND<20	71.5
	6/11/2019	ND<20	71.5
	12/10/2019	ND<20	71.5
	6/22/2020	ND<20	71.5
	12/18/2020	ND<20	71.5
	6/16/2021	ND<20	71.5
	12/14/2021	ND<20	71.5
	6/8/2022	ND<20	71.5
	12/15/2022	ND<20	71.5
	6/22/2023	ND<20	71.5

Rank Sum = 858  
 Rank Mean = 71.5

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PH1-GWB-1	12/13/2017	ND<20	71.5
	6/19/2018	ND<20	71.5
	12/18/2018	ND<20	71.5
	6/12/2019	ND<20	71.5
	12/11/2019	ND<20	71.5
	6/25/2020	ND<20	71.5
	12/18/2020	ND<20	71.5
	6/15/2021	ND<20	71.5
	12/14/2021	ND<20	71.5
	6/8/2022	ND<20	71.5

Forsyth County - Hightower Road Landfill - Phase I

Cobalt

	12/13/2022	ND<20	71.5
	6/21/2023	ND<20	71.5

Rank Sum = 858  
Rank Mean = 71.5

PH1-GWC-2	12/13/2017	ND<20	71.5
	6/19/2018	ND<20	71.5
	12/18/2018	ND<20	71.5
	6/10/2019	ND<20	71.5
	12/10/2019	ND<20	71.5
	6/22/2020	ND<20	71.5
	12/17/2020	ND<20	71.5
	6/17/2021	ND<20	71.5
	12/17/2021	ND<20	71.5
	6/8/2022	ND<20	71.5
	12/14/2022	ND<20	71.5
	6/22/2023	ND<20	71.5

Rank Sum = 858  
Rank Mean = 71.5

PH1-GWC-3	12/13/2017	ND<20	71.5
	6/20/2018	ND<20	71.5
	12/19/2018	ND<20	71.5
	6/11/2019	ND<20	71.5
	12/10/2019	ND<20	71.5
	6/23/2020	ND<20	71.5
	12/16/2020	ND<20	71.5
	6/15/2021	ND<20	71.5
	12/15/2021	ND<20	71.5
	6/8/2022	ND<25	71.5
	12/15/2022	ND<20	71.5
	6/22/2023	ND<20	71.5

Rank Sum = 858  
Rank Mean = 71.5

PH1-GWC-3A	12/13/2017	ND<20	71.5
	6/28/2018	ND<20	71.5
	12/19/2018	ND<20	71.5
	6/11/2019	ND<20	71.5
	12/10/2019	ND<20	71.5
	6/23/2020	ND<20	71.5
	12/16/2020	ND<20	71.5
	6/15/2021	ND<20	71.5
	12/15/2021	ND<20	71.5
	6/8/2022	ND<25	71.5
	12/15/2022	ND<20	71.5
	6/22/2023	ND<20	71.5

Rank Sum = 858  
Rank Mean = 71.5

GWC-1	12/14/2017	ND<20	71.5
	6/20/2018	ND<20	71.5
	12/18/2018	ND<20	71.5
	6/13/2019	ND<20	71.5
	12/11/2019	ND<20	71.5
	6/23/2020	ND<20	71.5
	12/17/2020	ND<20	71.5

Forsyth County - Hightower Road Landfill - Phase I

Cobalt

	6/16/2021	ND<20	71.5
	12/16/2021	ND<20	71.5
	6/8/2022	ND<20	71.5
	12/13/2022	ND<20	71.5
	6/20/2023	ND<20	71.5

Rank Sum = 858  
Rank Mean = 71.5

PH1-GWA-1	12/14/2017	76	146
	6/20/2018	75	145
	12/19/2018	82	148
	6/11/2019	91	151
	12/10/2019	90.1	150
	6/23/2020	76.6	147
	12/16/2020	95.6	153
	6/16/2021	83.5	149
	12/14/2021	111	154
	6/9/2022	74.7	144
	12/15/2022	94.7	152
	6/21/2023	67.2	143

Rank Sum = 1782  
Rank Mean = 148.5

PH1-GWA-2	12/14/2017	ND<20	71.5
	6/19/2018	ND<20	71.5
	12/19/2018	ND<20	71.5
	6/12/2019	ND<20	71.5
	12/10/2019	ND<20	71.5
	6/25/2020	ND<20	71.5
	12/16/2020	ND<20	71.5
	6/17/2021	ND<20	71.5
	12/15/2021	ND<20	71.5
	6/8/2022	ND<25	71.5
	12/15/2022	ND<20	71.5
	6/22/2023	ND<20	71.5

Rank Sum = 858  
Rank Mean = 71.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 32.9806

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 152.667

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

**32.9806 > 19.6752 indicating a significant group difference at 5% significance level**

**152.667 > 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-GWB-2	71.5	0	36.6829
PH1-GWC-1	71.5	0	36.6829
PH1-GWC-4	71.5	0	39.052
PH1-GWA-1A	71.5	0	36.6829
PH1-GWB-1	71.5	0	36.6829
PH1-GWC-2	71.5	0	36.6829

PH1-GWC-3	71.5	0	36.6829
PH1-GWC-3A	71.5	0	36.6829
GWC-1	71.5	0	36.6829
<b>PH1-GWA-1</b>	<b>148.5</b>	<b>77</b>	<b>36.6829</b>
PH1-GWA-2	71.5	0	36.6829

**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-GWB-2	71.5	0	41.8194
PH1-GWC-1	71.5	0	41.8194
PH1-GWC-4	71.5	0	44.5202
PH1-GWA-1A	71.5	0	41.8194
PH1-GWB-1	71.5	0	41.8194
PH1-GWC-2	71.5	0	41.8194
PH1-GWC-3	71.5	0	41.8194
PH1-GWC-3A	71.5	0	41.8194
GWC-1	71.5	0	41.8194
<b>PH1-GWA-1</b>	<b>148.5</b>	<b>77</b>	<b>41.8194</b>
PH1-GWA-2	71.5	0	41.8194

**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	12/11/2017	ND<10	76
	6/18/2018	ND<10	76
	12/17/2018	ND<10	76
	6/13/2019	ND<10	76
	12/12/2019	ND<10	76
	6/25/2020	ND<10	76
	12/18/2020	ND<10	76
	6/15/2021	ND<10	76
	12/15/2021	ND<10	76
	6/6/2022	ND<10	76
12/12/2022	ND<10	76	
6/20/2023	ND<10	76	

Rank Sum = 912

Rank Mean = 76

PH1-GWA-4	12/13/2017	ND<10	76
	6/19/2018	ND<10	76
	12/19/2018	ND<10	76
	6/12/2019	ND<10	76
	12/10/2019	ND<10	76
	6/25/2020	ND<10	76
	12/16/2020	ND<10	76
	6/17/2021	ND<10	76
	12/15/2021	ND<10	76
	6/8/2022	ND<10	76
	12/15/2022	ND<10	76
	6/23/2023	ND<10	76

Rank Sum = 912

Rank Mean = 76

Background Rank Sum = 1824

Background Rank Mean = 76

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/12/2017	ND<10	76
	6/20/2018	ND<10	76
	12/18/2018	ND<10	76
	6/13/2019	ND<10	76
	12/13/2019	ND<10	76
	6/25/2020	ND<10	76
	12/18/2020	ND<10	76
	6/17/2021	ND<10	76
	12/14/2021	ND<10	76
	6/10/2022	ND<10	76
	12/13/2022	ND<10	76

Forsyth County - Hightower Road Landfill - Phase I

Nickel

6/21/2023 ND<10 76

Rank Sum = 912

Rank Mean = 76

PH1-GWC-1 12/12/2017 ND<10 76  
 6/20/2018 ND<10 76  
 12/20/2018 ND<10 76  
 6/13/2019 ND<10 76  
 12/12/2019 ND<10 76  
 6/23/2020 ND<10 76  
 12/18/2020 ND<10 76  
 6/17/2021 ND<10 76  
 12/16/2021 ND<10 76  
 6/10/2022 ND<10 76  
 12/15/2022 ND<10 76  
 6/20/2023 ND<10 76

Rank Sum = 912

Rank Mean = 76

PH1-GWC-4 12/12/2017 ND<10 76  
 6/20/2018 ND<10 76  
 12/20/2018 31 153  
 6/13/2019 ND<10 76  
 6/23/2020 ND<10 76  
 12/18/2020 ND<10 76  
 6/17/2021 ND<10 76  
 12/16/2021 ND<10 76  
 6/7/2022 ND<10 76  
 6/20/2023 ND<10 76

Rank Sum = 837

Rank Mean = 83.7

PH1-GWA-1A 12/13/2017 ND<10 76  
 6/20/2018 ND<10 76  
 12/19/2018 ND<10 76  
 6/11/2019 ND<10 76  
 12/10/2019 ND<10 76  
 6/22/2020 ND<10 76  
 12/18/2020 ND<10 76  
 6/16/2021 ND<10 76  
 12/14/2021 ND<10 76  
 6/8/2022 ND<10 76  
 12/15/2022 ND<10 76  
 6/22/2023 ND<10 76

Rank Sum = 912

Rank Mean = 76

PH1-GWB-1 12/13/2017 ND<10 76  
 6/19/2018 ND<10 76  
 12/18/2018 ND<10 76  
 6/12/2019 ND<10 76  
 12/11/2019 ND<10 76  
 6/25/2020 ND<10 76  
 12/18/2020 ND<10 76  
 6/15/2021 ND<10 76  
 12/14/2021 ND<10 76  
 6/8/2022 ND<10 76

Forsyth County - Hightower Road Landfill - Phase I

Nickel

12/13/2022 ND<10 76

6/21/2023 ND<10 76

Rank Sum = 912

Rank Mean = 76

PH1-GWC-2 12/13/2017 ND<10 76  
 6/19/2018 ND<10 76  
 12/18/2018 ND<10 76  
 6/10/2019 51 154  
 12/10/2019 ND<10 76  
 6/22/2020 ND<10 76  
 12/17/2020 ND<10 76  
 6/17/2021 ND<10 76  
 12/17/2021 ND<10 76  
 6/8/2022 ND<10 76  
 12/14/2022 ND<10 76  
 6/22/2023 25.3 152

Rank Sum = 1066

Rank Mean = 88.8333

PH1-GWC-3 12/13/2017 ND<10 76  
 6/20/2018 ND<10 76  
 12/19/2018 ND<10 76  
 6/11/2019 ND<10 76  
 12/10/2019 ND<10 76  
 6/23/2020 ND<10 76  
 12/16/2020 ND<10 76  
 6/15/2021 ND<10 76  
 12/15/2021 ND<10 76  
 6/8/2022 ND<20 76  
 12/15/2022 ND<10 76  
 6/22/2023 ND<10 76

Rank Sum = 912

Rank Mean = 76

PH1-GWC-3A 12/13/2017 ND<10 76  
 6/28/2018 ND<10 76  
 12/19/2018 ND<10 76  
 6/11/2019 ND<10 76  
 12/10/2019 ND<10 76  
 6/23/2020 ND<10 76  
 12/16/2020 ND<10 76  
 6/15/2021 ND<10 76  
 12/15/2021 ND<10 76  
 6/8/2022 ND<20 76  
 12/15/2022 ND<10 76  
 6/22/2023 ND<10 76

Rank Sum = 912

Rank Mean = 76

GWC-1 12/14/2017 ND<10 76  
 6/20/2018 ND<10 76  
 12/18/2018 ND<10 76  
 6/13/2019 ND<10 76  
 12/11/2019 ND<10 76  
 6/23/2020 ND<10 76  
 12/17/2020 ND<10 76



Forsyth County - Hightower Road Landfill - Phase I

Nickel

6/16/2021	ND<10	76
12/16/2021	ND<10	76
6/8/2022	ND<10	76
12/13/2022	ND<10	76
6/20/2023	ND<10	76

Rank Sum = 912  
Rank Mean = 76

PH1-GWA-1	12/14/2017	ND<10	76
	6/20/2018	ND<10	76
	12/19/2018	ND<10	76
	6/11/2019	ND<10	76
	12/10/2019	ND<10	76
	6/23/2020	ND<10	76
	12/16/2020	ND<10	76
	6/16/2021	ND<10	76
	12/14/2021	ND<10	76
	6/9/2022	ND<10	76
	12/15/2022	ND<10	76
	6/21/2023	ND<10	76

Rank Sum = 912  
Rank Mean = 76

PH1-GWA-2	12/14/2017	ND<10	76
	6/19/2018	ND<10	76
	12/19/2018	ND<10	76
	6/12/2019	ND<10	76
	12/10/2019	ND<10	76
	6/25/2020	ND<10	76
	12/16/2020	ND<10	76
	6/17/2021	ND<10	76
	12/15/2021	ND<10	76
	6/8/2022	ND<20	76
	12/15/2022	ND<10	76
	6/22/2023	ND<10	76

Rank Sum = 912  
Rank Mean = 76

**Calculation Results:**

Kruskal-Wallis H Statistic = 1.11742

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 19.4971

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

1.11742 < 19.6752 indicating no significant group difference at 5% significance level

19.4971 < 19.6752 indicating no significant group difference at 5% significance level when adjusted for ties

Forsyth County - Hightower Road Landfill - Phase I

Zinc

**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	12/11/2017	ND<10	55
	6/18/2018	ND<10	55
	12/17/2018	ND<10	55
	6/13/2019	ND<10	55
	12/12/2019	ND<10	55
	6/25/2020	ND<10	55
	12/18/2020	ND<10	55
	6/15/2021	ND<10	55
	12/15/2021	ND<10	55
	6/6/2022	ND<10	55
	12/12/2022	ND<10	55
	6/20/2023	ND<10	55

Rank Sum = 660  
Rank Mean = 55

PH1-GWA-4	12/13/2017	ND<10	55
	6/19/2018	ND<10	55
	12/19/2018	ND<10	55
	6/12/2019	ND<10	55
	12/10/2019	48.9	149
	6/25/2020	ND<10	55
	12/16/2020	ND<10	55
	6/17/2021	ND<10	55
	12/15/2021	ND<10	55
	6/8/2022	ND<10	55
	12/15/2022	ND<10	55
	6/23/2023	ND<10	55

Rank Sum = 754  
Rank Mean = 62.8333

Background Rank Sum = 1414

Background Rank Mean = 58.9167

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWB-2	12/12/2017	25	120
	6/20/2018	31	132
	12/18/2018	28	126
	6/13/2019	33	137
	12/13/2019	38.3	143
	6/25/2020	25.4	121
	12/18/2020	21.6	114
	6/17/2021	26.3	123
	12/14/2021	23.8	119
	6/10/2022	29.4	130
	12/13/2022	62.9	153

Forsyth County - Hightower Road Landfill - Phase I

Zinc

6/21/2023 29 128  
 Rank Sum = 1546  
 Rank Mean = 128.833

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PH1-GWC-1	12/12/2017	ND<10	55
	6/20/2018	ND<10	55
	12/20/2018	ND<10	55
	6/13/2019	ND<10	55
	12/12/2019	ND<10	55
	6/23/2020	32.5	136
	12/18/2020	ND<10	55
	6/17/2021	ND<10	55
	12/16/2021	ND<10	55
	6/10/2022	ND<10	55
	12/15/2022	ND<10	55
	6/20/2023	ND<10	55

Rank Sum = 741  
 Rank Mean = 61.75

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PH1-GWC-4	12/12/2017	28	127
	6/20/2018	ND<10	55
	12/20/2018	120	154
	6/13/2019	20	110
	6/23/2020	ND<10	55
	12/18/2020	ND<10	55
	6/17/2021	ND<10	55
	12/16/2021	21.7	116
	6/7/2022	30.7	131
	6/20/2023	ND<10	55

Rank Sum = 913  
 Rank Mean = 91.3

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PH1-GWA-1A	12/13/2017	ND<10	55
	6/20/2018	ND<10	55
	12/19/2018	ND<10	55
	6/11/2019	ND<10	55
	12/10/2019	ND<10	55
	6/22/2020	ND<10	55
	12/18/2020	ND<10	55
	6/16/2021	ND<10	55
	12/14/2021	ND<10	55
	6/8/2022	38.2	141
	12/15/2022	ND<10	55
	6/22/2023	ND<10	55

Rank Sum = 746  
 Rank Mean = 62.1667

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PH1-GWB-1	12/13/2017	ND<10	55
	6/19/2018	39	145
	12/18/2018	ND<10	55
	6/12/2019	22	117
	12/11/2019	38.2	142
	6/25/2020	26.8	124
	12/18/2020	ND<10	55
	6/15/2021	ND<10	55
	12/14/2021	ND<10	55
	6/8/2022	ND<10	55

Forsyth County - Hightower Road Landfill - Phase I

Zinc

12/13/2022 ND<10 55  
 6/21/2023 ND<10 55  
 Rank Sum = 968  
 Rank Mean = 80.6667

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PH1-GWC-2	12/13/2017	ND<10	55
	6/19/2018	20	111
	12/18/2018	ND<10	55
	6/10/2019	26	122
	12/10/2019	ND<10	55
	6/22/2020	ND<10	55
	12/17/2020	ND<10	55
	6/17/2021	ND<10	55
	12/17/2021	ND<10	55
	6/8/2022	45.9	148
	12/14/2022	21.6	115
	6/22/2023	37.3	140

Rank Sum = 1021  
 Rank Mean = 85.0833

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PH1-GWC-3	12/13/2017	ND<10	55
	6/20/2018	ND<10	55
	12/19/2018	ND<10	55
	6/11/2019	ND<10	55
	12/10/2019	ND<10	55
	6/23/2020	ND<10	55
	12/16/2020	ND<10	55
	6/15/2021	ND<10	55
	12/15/2021	ND<10	55
	6/8/2022	ND<10	55
	12/15/2022	ND<10	55
	6/22/2023	ND<10	55

Rank Sum = 660  
 Rank Mean = 55

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PH1-GWC-3A	12/13/2017	ND<10	55
	6/28/2018	21	113
	12/19/2018	ND<10	55
	6/11/2019	ND<10	55
	12/10/2019	ND<10	55
	6/23/2020	36.9	139
	12/16/2020	ND<10	55
	6/15/2021	23.6	118
	12/15/2021	43.6	147
	6/8/2022	38.8	144
	12/15/2022	ND<10	55
	6/22/2023	ND<10	55

Rank Sum = 1046  
 Rank Mean = 87.1667

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GWC-1	12/14/2017	ND<10	55
	6/20/2018	20	112
	12/18/2018	ND<10	55
	6/13/2019	ND<10	55
	12/11/2019	27.1	125
	6/23/2020	55.4	152
	12/17/2020	ND<10	55

Forsyth County - Hightower Road Landfill - Phase I

Zinc

6/16/2021	ND<10	55
12/16/2021	ND<10	55
6/8/2022	ND<10	55
12/13/2022	ND<10	55
6/20/2023	ND<10	55

Rank Sum = 884  
Rank Mean = 73.6667

PH1-GWA-1	12/14/2017	51	150
	6/20/2018	55	151
	12/19/2018	40	146
	6/11/2019	34	138
	12/10/2019	32.4	135
	6/23/2020	ND<10	55
	12/16/2020	ND<10	55
	6/16/2021	ND<10	55
	12/14/2021	31	133
	6/9/2022	ND<10	55
	12/15/2022	ND<10	55
	6/21/2023	31.6	134

Rank Sum = 1262  
Rank Mean = 105.167

PH1-GWA-2	12/14/2017	ND<10	55
	6/19/2018	ND<10	55
	12/19/2018	29	129
	6/12/2019	ND<10	55
	12/10/2019	ND<10	55
	6/25/2020	ND<10	55
	12/16/2020	ND<10	55
	6/17/2021	ND<10	55
	12/15/2021	ND<10	55
	6/8/2022	ND<10	55
	12/15/2022	ND<10	55
	6/22/2023	ND<10	55

Rank Sum = 734  
Rank Mean = 61.1667

**Calculation Results:**

Kruskal-Wallis H Statistic = 34.2765

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 53.1063

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

**34.2765 > 19.6752 indicating a significant group difference at 5% significance level**

**53.1063 > 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 58.9167

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	128.833	69.9167	36.6829
PH1-GWC-1	61.75	2.83333	36.6829
PH1-GWC-4	91.3	32.3833	39.052
PH1-GWA-1A	62.1667	3.25	36.6829
PH1-GWB-1	80.6667	21.75	36.6829
PH1-GWC-2	85.0833	26.1667	36.6829

Forsyth County - Hightower Road Landfill - Phase I

Zinc

PH1-GWC-3	55	-3.91667	36.6829
PH1-GWC-3A	87.1667	28.25	36.6829
GWC-1	73.6667	14.75	36.6829
PH1-GWA-1	105.167	46.25	36.6829
PH1-GWA-2	61.1667	2.25	36.6829

**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 58.9167

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWB-2	128.833	69.9167	41.8194
PH1-GWC-1	61.75	2.83333	41.8194
PH1-GWC-4	91.3	32.3833	44.5202
PH1-GWA-1A	62.1667	3.25	41.8194
PH1-GWB-1	80.6667	21.75	41.8194
PH1-GWC-2	85.0833	26.1667	41.8194
PH1-GWC-3	55	-3.91667	41.8194
PH1-GWC-3A	87.1667	28.25	41.8194
GWC-1	73.6667	14.75	41.8194
PH1-GWA-1	105.167	46.25	41.8194
PH1-GWA-2	61.1667	2.25	41.8194

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

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
1,1-Dichloroethane	GWA-3	FALSE	1%
1,1-Dichloroethane	GWC-22	FALSE	1%
1,1-Dichloroethane	GWC-23	FALSE	1%
1,1-Dichloroethane	GWC-23A	FALSE	1%
1,1-Dichloroethane	GWC-10	FALSE	1%
1,1-Dichloroethane	GWC-10A	FALSE	1%
1,1-Dichloroethane	GWC-13	FALSE	1%
1,1-Dichloroethane	GWC-14A	TRUE	1%
1,1-Dichloroethane	GWC-14R	TRUE	1%
1,1-Dichloroethane	GWC-17	FALSE	1%
1,1-Dichloroethane	GWC-3A	FALSE	1%
1,1-Dichloroethane	GWC-4A	FALSE	1%
1,1-Dichloroethane	GWC-5	FALSE	1%
1,1-Dichloroethane	GWC-7	FALSE	1%
1,1-Dichloroethane	GWC-8	FALSE	1%
1,1-Dichloroethane	GWC-8A	TRUE	1%
1,1-Dichloroethane	GWC-8R	TRUE	1%
1,1-Dichloroethane	GWC-16A	FALSE	1%
1,1-Dichloroethane	GWA-1A	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-15	TRUE	1%
1,1-Dichloroethane	GWC-18	FALSE	1%
1,1-Dichloroethane	GWC-19R	FALSE	1%
1,1-Dichloroethane	GWC-2	FALSE	1%
1,1-Dichloroethane	GWC-24	FALSE	1%
1,1-Dichloroethane	GWC-6	FALSE	1%
1,1-Dichloroethane	GWC-9	FALSE	1%
1,1-Dichloroethane	GWC-14	FALSE	1%
1,1-Dichloroethane	GWC-4	FALSE	1%
1,1-Dichloroethane	GWC-3	FALSE	1%
1,1-Dichloroethane	GWA-3	FALSE	0.16%
1,1-Dichloroethane	GWC-22	FALSE	0.16%
1,1-Dichloroethane	GWC-23	FALSE	0.16%
1,1-Dichloroethane	GWC-23A	FALSE	0.16%
1,1-Dichloroethane	GWC-10	FALSE	0.16%
1,1-Dichloroethane	GWC-10A	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**  
**First 2023 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
1,1-Dichloroethane	GWC-13	FALSE	0.16%
1,1-Dichloroethane	GWC-14A	TRUE	0.16%
1,1-Dichloroethane	GWC-14R	TRUE	0.16%
1,1-Dichloroethane	GWC-17	FALSE	0.16%
1,1-Dichloroethane	GWC-3A	FALSE	0.16%
1,1-Dichloroethane	GWC-4A	FALSE	0.16%
1,1-Dichloroethane	GWC-5	FALSE	0.16%
1,1-Dichloroethane	GWC-7	FALSE	0.16%
1,1-Dichloroethane	GWC-8	FALSE	0.16%
1,1-Dichloroethane	GWC-8A	TRUE	0.16%
1,1-Dichloroethane	GWC-8R	TRUE	0.16%
1,1-Dichloroethane	GWC-16A	FALSE	0.16%
1,1-Dichloroethane	GWA-1A	FALSE	0.16%
1,1-Dichloroethane	GWC-11	FALSE	0.16%
1,1-Dichloroethane	GWC-12	FALSE	0.16%
1,1-Dichloroethane	GWC-12A	FALSE	0.16%
1,1-Dichloroethane	GWC-15	TRUE	0.16%
1,1-Dichloroethane	GWC-18	FALSE	0.16%
1,1-Dichloroethane	GWC-19R	FALSE	0.16%
1,1-Dichloroethane	GWC-2	FALSE	0.16%
1,1-Dichloroethane	GWC-24	FALSE	0.16%
1,1-Dichloroethane	GWC-6	FALSE	0.16%
1,1-Dichloroethane	GWC-9	FALSE	0.16%
1,1-Dichloroethane	GWC-14	FALSE	0.16%
1,1-Dichloroethane	GWC-4	FALSE	0.16%
1,1-Dichloroethane	GWC-3	FALSE	0.16%
Benzene	GWA-3	FALSE	1%
Benzene	GWC-22	FALSE	1%
Benzene	GWC-23	FALSE	1%
Benzene	GWC-23A	FALSE	1%
Benzene	GWC-10	FALSE	1%
Benzene	GWC-10A	FALSE	1%
Benzene	GWC-13	FALSE	1%
Benzene	GWC-14A	TRUE	1%
Benzene	GWC-14R	FALSE	1%
Benzene	GWC-17	FALSE	1%
Benzene	GWC-3A	FALSE	1%
Benzene	GWC-4A	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  
 First 2023 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-5	FALSE	1%
Benzene	GWC-7	FALSE	1%
Benzene	GWC-8	FALSE	1%
Benzene	GWC-8A	TRUE	1%
Benzene	GWC-8R	FALSE	1%
Benzene	GWC-16A	FALSE	1%
Benzene	GWA-1A	FALSE	1%
Benzene	GWC-11	FALSE	1%
Benzene	GWC-12	FALSE	1%
Benzene	GWC-12A	FALSE	1%
Benzene	GWC-15	TRUE	1%
Benzene	GWC-18	FALSE	1%
Benzene	GWC-19R	FALSE	1%
Benzene	GWC-2	FALSE	1%
Benzene	GWC-24	FALSE	1%
Benzene	GWC-6	FALSE	1%
Benzene	GWC-9	FALSE	1%
Benzene	GWC-14	FALSE	1%
Benzene	GWC-4	FALSE	1%
Benzene	GWC-3	FALSE	1%
Benzene	GWA-3	FALSE	0.16%
Benzene	GWC-22	FALSE	0.16%
Benzene	GWC-23	FALSE	0.16%
Benzene	GWC-23A	FALSE	0.16%
Benzene	GWC-10	FALSE	0.16%
Benzene	GWC-10A	FALSE	0.16%
Benzene	GWC-13	FALSE	0.16%
Benzene	GWC-14A	TRUE	0.16%
Benzene	GWC-14R	FALSE	0.16%
Benzene	GWC-17	FALSE	0.16%
Benzene	GWC-3A	FALSE	0.16%
Benzene	GWC-4A	FALSE	0.16%
Benzene	GWC-5	FALSE	0.16%
Benzene	GWC-7	FALSE	0.16%
Benzene	GWC-8	FALSE	0.16%
Benzene	GWC-8A	FALSE	0.16%
Benzene	GWC-8R	FALSE	0.16%
Benzene	GWC-16A	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**  
**First 2023 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Benzene	GWA-1A	FALSE	0.16%
Benzene	GWC-11	FALSE	0.16%
Benzene	GWC-12	FALSE	0.16%
Benzene	GWC-12A	FALSE	0.16%
Benzene	GWC-15	FALSE	0.16%
Benzene	GWC-18	FALSE	0.16%
Benzene	GWC-19R	FALSE	0.16%
Benzene	GWC-2	FALSE	0.16%
Benzene	GWC-24	FALSE	0.16%
Benzene	GWC-6	FALSE	0.16%
Benzene	GWC-9	FALSE	0.16%
Benzene	GWC-14	FALSE	0.16%
Benzene	GWC-4	FALSE	0.16%
Benzene	GWC-3	FALSE	0.16%
Chlorobenzene	GWA-3	FALSE	1%
Chlorobenzene	GWC-22	FALSE	1%
Chlorobenzene	GWC-23	FALSE	1%
Chlorobenzene	GWC-23A	FALSE	1%
Chlorobenzene	GWC-10	FALSE	1%
Chlorobenzene	GWC-10A	FALSE	1%
Chlorobenzene	GWC-13	FALSE	1%
Chlorobenzene	GWC-14A	TRUE	1%
Chlorobenzene	GWC-14R	FALSE	1%
Chlorobenzene	GWC-17	FALSE	1%
Chlorobenzene	GWC-3A	FALSE	1%
Chlorobenzene	GWC-4A	FALSE	1%
Chlorobenzene	GWC-5	FALSE	1%
Chlorobenzene	GWC-7	FALSE	1%
Chlorobenzene	GWC-8	FALSE	1%
Chlorobenzene	GWC-8A	FALSE	1%
Chlorobenzene	GWC-8R	FALSE	1%
Chlorobenzene	GWC-16A	FALSE	1%
Chlorobenzene	GWA-1A	FALSE	1%
Chlorobenzene	GWC-11	FALSE	1%
Chlorobenzene	GWC-12	FALSE	1%
Chlorobenzene	GWC-12A	FALSE	1%
Chlorobenzene	GWC-15	FALSE	1%
Chlorobenzene	GWC-18	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 NPIT.
4. Non-detects are replaced with 1/2 the detection limit.

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

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Chlorobenzene	GWC-19R	FALSE	1%
Chlorobenzene	GWC-2	FALSE	1%
Chlorobenzene	GWC-24	FALSE	1%
Chlorobenzene	GWC-6	FALSE	1%
Chlorobenzene	GWC-9	FALSE	1%
Chlorobenzene	GWC-14	FALSE	1%
Chlorobenzene	GWC-4	FALSE	1%
Chlorobenzene	GWC-3	FALSE	1%
Chlorobenzene	GWA-3	FALSE	0.16%
Chlorobenzene	GWC-22	FALSE	0.16%
Chlorobenzene	GWC-23	FALSE	0.16%
Chlorobenzene	GWC-23A	FALSE	0.16%
Chlorobenzene	GWC-10	FALSE	0.16%
Chlorobenzene	GWC-10A	FALSE	0.16%
Chlorobenzene	GWC-13	FALSE	0.16%
Chlorobenzene	GWC-14A	FALSE	0.16%
Chlorobenzene	GWC-14R	FALSE	0.16%
Chlorobenzene	GWC-17	FALSE	0.16%
Chlorobenzene	GWC-3A	FALSE	0.16%
Chlorobenzene	GWC-4A	FALSE	0.16%
Chlorobenzene	GWC-5	FALSE	0.16%
Chlorobenzene	GWC-7	FALSE	0.16%
Chlorobenzene	GWC-8	FALSE	0.16%
Chlorobenzene	GWC-8A	FALSE	0.16%
Chlorobenzene	GWC-8R	FALSE	0.16%
Chlorobenzene	GWC-16A	FALSE	0.16%
Chlorobenzene	GWA-1A	FALSE	0.16%
Chlorobenzene	GWC-11	FALSE	0.16%
Chlorobenzene	GWC-12	FALSE	0.16%
Chlorobenzene	GWC-12A	FALSE	0.16%
Chlorobenzene	GWC-15	FALSE	0.16%
Chlorobenzene	GWC-18	FALSE	0.16%
Chlorobenzene	GWC-19R	FALSE	0.16%
Chlorobenzene	GWC-2	FALSE	0.16%
Chlorobenzene	GWC-24	FALSE	0.16%
Chlorobenzene	GWC-6	FALSE	0.16%
Chlorobenzene	GWC-9	FALSE	0.16%
Chlorobenzene	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  
 First 2023 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-4	FALSE	0.16%
Chlorobenzene	GWC-3	FALSE	0.16%
Chloroethane	GWA-3	FALSE	1%
Chloroethane	GWC-22	FALSE	1%
Chloroethane	GWC-23	FALSE	1%
Chloroethane	GWC-23A	FALSE	1%
Chloroethane	GWC-10	FALSE	1%
Chloroethane	GWC-10A	FALSE	1%
Chloroethane	GWC-13	FALSE	1%
Chloroethane	GWC-14A	TRUE	1%
Chloroethane	GWC-14R	FALSE	1%
Chloroethane	GWC-17	FALSE	1%
Chloroethane	GWC-3A	FALSE	1%
Chloroethane	GWC-4A	FALSE	1%
Chloroethane	GWC-5	FALSE	1%
Chloroethane	GWC-7	FALSE	1%
Chloroethane	GWC-8	FALSE	1%
Chloroethane	GWC-8A	FALSE	1%
Chloroethane	GWC-8R	FALSE	1%
Chloroethane	GWC-16A	FALSE	1%
Chloroethane	GWA-1A	FALSE	1%
Chloroethane	GWC-11	FALSE	1%
Chloroethane	GWC-12	FALSE	1%
Chloroethane	GWC-12A	FALSE	1%
Chloroethane	GWC-15	FALSE	1%
Chloroethane	GWC-18	FALSE	1%
Chloroethane	GWC-19R	FALSE	1%
Chloroethane	GWC-2	FALSE	1%
Chloroethane	GWC-24	FALSE	1%
Chloroethane	GWC-6	FALSE	1%
Chloroethane	GWC-9	FALSE	1%
Chloroethane	GWC-14	FALSE	1%
Chloroethane	GWC-4	FALSE	1%
Chloroethane	GWC-3	FALSE	1%
Chloroethane	GWA-3	FALSE	0.16%
Chloroethane	GWC-22	FALSE	0.16%
Chloroethane	GWC-23	FALSE	0.16%
Chloroethane	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 NPFI.
4. Non-detects are replaced with 1/2 the detection limit.

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

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-10	FALSE	0.16%
Chloroethane	GWC-10A	FALSE	0.16%
Chloroethane	GWC-13	FALSE	0.16%
Chloroethane	GWC-14A	TRUE	0.16%
Chloroethane	GWC-14R	FALSE	0.16%
Chloroethane	GWC-17	FALSE	0.16%
Chloroethane	GWC-3A	FALSE	0.16%
Chloroethane	GWC-4A	FALSE	0.16%
Chloroethane	GWC-5	FALSE	0.16%
Chloroethane	GWC-7	FALSE	0.16%
Chloroethane	GWC-8	FALSE	0.16%
Chloroethane	GWC-8A	FALSE	0.16%
Chloroethane	GWC-8R	FALSE	0.16%
Chloroethane	GWC-16A	FALSE	0.16%
Chloroethane	GWA-1A	FALSE	0.16%
Chloroethane	GWC-11	FALSE	0.16%
Chloroethane	GWC-12	FALSE	0.16%
Chloroethane	GWC-12A	FALSE	0.16%
Chloroethane	GWC-15	FALSE	0.16%
Chloroethane	GWC-18	FALSE	0.16%
Chloroethane	GWC-19R	FALSE	0.16%
Chloroethane	GWC-2	FALSE	0.16%
Chloroethane	GWC-24	FALSE	0.16%
Chloroethane	GWC-6	FALSE	0.16%
Chloroethane	GWC-9	FALSE	0.16%
Chloroethane	GWC-14	FALSE	0.16%
Chloroethane	GWC-4	FALSE	0.16%
Chloroethane	GWC-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-22	FALSE	1%
cis-1,2-Dichloroethene	GWC-23	FALSE	1%
cis-1,2-Dichloroethene	GWC-23A	FALSE	1%
cis-1,2-Dichloroethene	GWC-10	FALSE	1%
cis-1,2-Dichloroethene	GWC-10A	FALSE	1%
cis-1,2-Dichloroethene	GWC-13	FALSE	1%
cis-1,2-Dichloroethene	GWC-14A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14R	TRUE	1%
cis-1,2-Dichloroethene	GWC-17	TRUE	1%

Notes:

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

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

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-3A	FALSE	1%
cis-1,2-Dichloroethene	GWC-4A	FALSE	1%
cis-1,2-Dichloroethene	GWC-5	FALSE	1%
cis-1,2-Dichloroethene	GWC-7	FALSE	1%
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-16A	FALSE	1%
cis-1,2-Dichloroethene	GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	GWC-11	FALSE	1%
cis-1,2-Dichloroethene	GWC-12	FALSE	1%
cis-1,2-Dichloroethene	GWC-12A	FALSE	1%
cis-1,2-Dichloroethene	GWC-15	TRUE	1%
cis-1,2-Dichloroethene	GWC-18	TRUE	1%
cis-1,2-Dichloroethene	GWC-19R	TRUE	1%
cis-1,2-Dichloroethene	GWC-2	FALSE	1%
cis-1,2-Dichloroethene	GWC-24	FALSE	1%
cis-1,2-Dichloroethene	GWC-6	FALSE	1%
cis-1,2-Dichloroethene	GWC-9	FALSE	1%
cis-1,2-Dichloroethene	GWC-14	FALSE	1%
cis-1,2-Dichloroethene	GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWC-3	FALSE	1%
cis-1,2-Dichloroethene	GWA-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-22	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-10	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-10A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-13	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-17	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-3A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-5	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-7	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8A	TRUE	0.16%

Notes:

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3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

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

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
cis-1,2-Dichloroethene	GWC-8R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-16A	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-1A	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-15	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-18	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-19R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-2	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-24	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-6	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-9	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-14	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3	FALSE	0.16%
Tetrachloroethene	GWA-3	FALSE	1%
Tetrachloroethene	GWC-22	FALSE	1%
Tetrachloroethene	GWC-23	FALSE	1%
Tetrachloroethene	GWC-23A	FALSE	1%
Tetrachloroethene	GWC-10	FALSE	1%
Tetrachloroethene	GWC-10A	FALSE	1%
Tetrachloroethene	GWC-13	FALSE	1%
Tetrachloroethene	GWC-14A	FALSE	1%
Tetrachloroethene	GWC-14R	FALSE	1%
Tetrachloroethene	GWC-17	FALSE	1%
Tetrachloroethene	GWC-3A	FALSE	1%
Tetrachloroethene	GWC-4A	FALSE	1%
Tetrachloroethene	GWC-5	FALSE	1%
Tetrachloroethene	GWC-7	FALSE	1%
Tetrachloroethene	GWC-8	FALSE	1%
Tetrachloroethene	GWC-8A	FALSE	1%
Tetrachloroethene	GWC-8R	FALSE	1%
Tetrachloroethene	GWC-16A	FALSE	1%
Tetrachloroethene	GWA-1A	FALSE	1%
Tetrachloroethene	GWC-11	FALSE	1%
Tetrachloroethene	GWC-12	FALSE	1%
Tetrachloroethene	GWC-12A	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 NPFI.
4. Non-detects are replaced with 1/2 the detection limit.

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

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-15	TRUE	1%
Tetrachloroethene	GWC-18	TRUE	1%
Tetrachloroethene	GWC-19R	FALSE	1%
Tetrachloroethene	GWC-2	FALSE	1%
Tetrachloroethene	GWC-24	FALSE	1%
Tetrachloroethene	GWC-6	FALSE	1%
Tetrachloroethene	GWC-9	FALSE	1%
Tetrachloroethene	GWC-14	FALSE	1%
Tetrachloroethene	GWC-4	FALSE	1%
Tetrachloroethene	GWC-3	FALSE	1%
Tetrachloroethene	GWA-3	FALSE	0.16%
Tetrachloroethene	GWC-22	FALSE	0.16%
Tetrachloroethene	GWC-23	FALSE	0.16%
Tetrachloroethene	GWC-23A	FALSE	0.16%
Tetrachloroethene	GWC-10	FALSE	0.16%
Tetrachloroethene	GWC-10A	FALSE	0.16%
Tetrachloroethene	GWC-13	FALSE	0.16%
Tetrachloroethene	GWC-14A	FALSE	0.16%
Tetrachloroethene	GWC-14R	FALSE	0.16%
Tetrachloroethene	GWC-17	FALSE	0.16%
Tetrachloroethene	GWC-3A	FALSE	0.16%
Tetrachloroethene	GWC-4A	FALSE	0.16%
Tetrachloroethene	GWC-5	FALSE	0.16%
Tetrachloroethene	GWC-7	FALSE	0.16%
Tetrachloroethene	GWC-8	FALSE	0.16%
Tetrachloroethene	GWC-8A	FALSE	0.16%
Tetrachloroethene	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWC-16A	FALSE	0.16%
Tetrachloroethene	GWA-1A	FALSE	0.16%
Tetrachloroethene	GWC-11	FALSE	0.16%
Tetrachloroethene	GWC-12	FALSE	0.16%
Tetrachloroethene	GWC-12A	FALSE	0.16%
Tetrachloroethene	GWC-15	TRUE	0.16%
Tetrachloroethene	GWC-18	TRUE	0.16%
Tetrachloroethene	GWC-19R	FALSE	0.16%
Tetrachloroethene	GWC-2	FALSE	0.16%
Tetrachloroethene	GWC-24	FALSE	0.16%
Tetrachloroethene	GWC-6	FALSE	0.16%

Notes:

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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**  
**First 2023 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Tetrachloroethene	GWC-9	FALSE	0.16%
Tetrachloroethene	GWC-14	FALSE	0.16%
Tetrachloroethene	GWC-4	FALSE	0.16%
Tetrachloroethene	GWC-3	FALSE	0.16%
Trichloroethene	GWA-3	FALSE	1%
Trichloroethene	GWC-22	FALSE	1%
Trichloroethene	GWC-23	FALSE	1%
Trichloroethene	GWC-23A	FALSE	1%
Trichloroethene	GWC-10	FALSE	1%
Trichloroethene	GWC-10A	FALSE	1%
Trichloroethene	GWC-13	FALSE	1%
Trichloroethene	GWC-14A	FALSE	1%
Trichloroethene	GWC-14R	TRUE	1%
Trichloroethene	GWC-17	FALSE	1%
Trichloroethene	GWC-3A	FALSE	1%
Trichloroethene	GWC-4A	FALSE	1%
Trichloroethene	GWC-5	FALSE	1%
Trichloroethene	GWC-7	FALSE	1%
Trichloroethene	GWC-8	FALSE	1%
Trichloroethene	GWC-8A	FALSE	1%
Trichloroethene	GWC-8R	FALSE	1%
Trichloroethene	GWC-16A	FALSE	1%
Trichloroethene	GWA-1A	FALSE	1%
Trichloroethene	GWC-11	FALSE	1%
Trichloroethene	GWC-12	FALSE	1%
Trichloroethene	GWC-12A	FALSE	1%
Trichloroethene	GWC-15	TRUE	1%
Trichloroethene	GWC-18	FALSE	1%
Trichloroethene	GWC-19R	FALSE	1%
Trichloroethene	GWC-2	FALSE	1%
Trichloroethene	GWC-24	FALSE	1%
Trichloroethene	GWC-6	FALSE	1%
Trichloroethene	GWC-9	FALSE	1%
Trichloroethene	GWC-14	FALSE	1%
Trichloroethene	GWC-4	FALSE	1%
Trichloroethene	GWC-3	FALSE	1%
Trichloroethene	GWA-3	FALSE	0.16%
Trichloroethene	GWC-22	FALSE	0.16%

Notes:

1. Original data are not transformed.
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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**  
**First 2023 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Trichloroethene	GWC-23	FALSE	0.16%
Trichloroethene	GWC-23A	FALSE	0.16%
Trichloroethene	GWC-10	FALSE	0.16%
Trichloroethene	GWC-10A	FALSE	0.16%
Trichloroethene	GWC-13	FALSE	0.16%
Trichloroethene	GWC-14A	FALSE	0.16%
Trichloroethene	GWC-14R	TRUE	0.16%
Trichloroethene	GWC-17	FALSE	0.16%
Trichloroethene	GWC-3A	FALSE	0.16%
Trichloroethene	GWC-4A	FALSE	0.16%
Trichloroethene	GWC-5	FALSE	0.16%
Trichloroethene	GWC-7	FALSE	0.16%
Trichloroethene	GWC-8	FALSE	0.16%
Trichloroethene	GWC-8A	FALSE	0.16%
Trichloroethene	GWC-8R	FALSE	0.16%
Trichloroethene	GWC-16A	FALSE	0.16%
Trichloroethene	GWA-1A	FALSE	0.16%
Trichloroethene	GWC-11	FALSE	0.16%
Trichloroethene	GWC-12	FALSE	0.16%
Trichloroethene	GWC-12A	FALSE	0.16%
Trichloroethene	GWC-15	TRUE	0.16%
Trichloroethene	GWC-18	FALSE	0.16%
Trichloroethene	GWC-19R	FALSE	0.16%
Trichloroethene	GWC-2	FALSE	0.16%
Trichloroethene	GWC-24	FALSE	0.16%
Trichloroethene	GWC-6	FALSE	0.16%
Trichloroethene	GWC-9	FALSE	0.16%
Trichloroethene	GWC-14	FALSE	0.16%
Trichloroethene	GWC-4	FALSE	0.16%
Trichloroethene	GWC-3	FALSE	0.16%
Vinyl chloride	GWA-3	FALSE	1%
Vinyl chloride	GWC-22	FALSE	1%
Vinyl chloride	GWC-23	FALSE	1%
Vinyl chloride	GWC-23A	FALSE	1%
Vinyl chloride	GWC-10	FALSE	1%
Vinyl chloride	GWC-10A	FALSE	1%
Vinyl chloride	GWC-13	FALSE	1%
Vinyl chloride	GWC-14A	TRUE	1%

Notes:

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3. K-W detects are screened for false positives with NPIT.
4. Non-detects are replaced with 1/2 the detection limit.

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

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Vinyl chloride	GWC-14R	FALSE	1%
Vinyl chloride	GWC-17	FALSE	1%
Vinyl chloride	GWC-3A	FALSE	1%
Vinyl chloride	GWC-4A	FALSE	1%
Vinyl chloride	GWC-5	FALSE	1%
Vinyl chloride	GWC-7	FALSE	1%
Vinyl chloride	GWC-8	FALSE	1%
Vinyl chloride	GWC-8A	FALSE	1%
Vinyl chloride	GWC-8R	FALSE	1%
Vinyl chloride	GWC-16A	FALSE	1%
Vinyl chloride	GWA-1A	FALSE	1%
Vinyl chloride	GWC-11	FALSE	1%
Vinyl chloride	GWC-12	FALSE	1%
Vinyl chloride	GWC-12A	FALSE	1%
Vinyl chloride	GWC-15	FALSE	1%
Vinyl chloride	GWC-18	FALSE	1%
Vinyl chloride	GWC-19R	FALSE	1%
Vinyl chloride	GWC-2	FALSE	1%
Vinyl chloride	GWC-24	FALSE	1%
Vinyl chloride	GWC-6	FALSE	1%
Vinyl chloride	GWC-9	FALSE	1%
Vinyl chloride	GWC-14	FALSE	1%
Vinyl chloride	GWC-4	FALSE	1%
Vinyl chloride	GWC-3	FALSE	1%
Vinyl chloride	GWA-3	FALSE	0.16%
Vinyl chloride	GWC-22	FALSE	0.16%
Vinyl chloride	GWC-23	FALSE	0.16%
Vinyl chloride	GWC-23A	FALSE	0.16%
Vinyl chloride	GWC-10	FALSE	0.16%
Vinyl chloride	GWC-10A	FALSE	0.16%
Vinyl chloride	GWC-13	FALSE	0.16%
Vinyl chloride	GWC-14A	TRUE	0.16%
Vinyl chloride	GWC-14R	FALSE	0.16%
Vinyl chloride	GWC-17	FALSE	0.16%
Vinyl chloride	GWC-3A	FALSE	0.16%
Vinyl chloride	GWC-4A	FALSE	0.16%
Vinyl chloride	GWC-5	FALSE	0.16%
Vinyl chloride	GWC-7	FALSE	0.16%

Notes:

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

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Vinyl chloride	GWC-8	FALSE	0.16%
Vinyl chloride	GWC-8A	FALSE	0.16%
Vinyl chloride	GWC-8R	FALSE	0.16%
Vinyl chloride	GWC-16A	FALSE	0.16%
Vinyl chloride	GWA-1A	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-15	FALSE	0.16%
Vinyl chloride	GWC-18	FALSE	0.16%
Vinyl chloride	GWC-19R	FALSE	0.16%
Vinyl chloride	GWC-2	FALSE	0.16%
Vinyl chloride	GWC-24	FALSE	0.16%
Vinyl chloride	GWC-6	FALSE	0.16%
Vinyl chloride	GWC-9	FALSE	0.16%
Vinyl chloride	GWC-14	FALSE	0.16%
Vinyl chloride	GWC-4	FALSE	0.16%
Vinyl chloride	GWC-3	FALSE	0.16%
Barium	GWA-3	FALSE	1%
Barium	GWC-22	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-13	FALSE	1%
Barium	GWC-14A	TRUE	1%
Barium	GWC-17	TRUE	1%
Barium	GWC-3A	FALSE	1%
Barium	GWC-4A	FALSE	1%
Barium	GWC-5	FALSE	1%
Barium	GWC-7	TRUE	1%
Barium	GWC-8	FALSE	1%
Barium	GWC-8A	TRUE	1%
Barium	GWC-16A	FALSE	1%
Barium	GWC-11	FALSE	1%
Barium	GWC-12	FALSE	1%
Barium	GWC-12A	FALSE	1%

Notes:

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3. K-W detects are screened for false positives with NPTI.
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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2023 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-15	TRUE	1%
Barium	GWC-18	TRUE	1%
Barium	GWC-19R	TRUE	1%
Barium	GWC-2	FALSE	1%
Barium	GWC-6	FALSE	1%
Barium	GWC-9	TRUE	1%
Barium	GWC-24	FALSE	1%
Barium	GWC-14	FALSE	1%
Barium	GWC-3	FALSE	1%
Barium	GWC-4	FALSE	1%
Barium	GWC-14R	FALSE	1%
Barium	GWC-8R	FALSE	1%
Barium	GWA-3	FALSE	0.16%
Barium	GWC-22	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-13	FALSE	0.16%
Barium	GWC-14A	TRUE	0.16%
Barium	GWC-17	FALSE	0.16%
Barium	GWC-3A	FALSE	0.16%
Barium	GWC-4A	FALSE	0.16%
Barium	GWC-5	FALSE	0.16%
Barium	GWC-7	FALSE	0.16%
Barium	GWC-8	FALSE	0.16%
Barium	GWC-8A	FALSE	0.16%
Barium	GWC-16A	FALSE	0.16%
Barium	GWC-11	FALSE	0.16%
Barium	GWC-12	FALSE	0.16%
Barium	GWC-12A	FALSE	0.16%
Barium	GWC-15	TRUE	0.16%
Barium	GWC-18	TRUE	0.16%
Barium	GWC-19R	TRUE	0.16%
Barium	GWC-2	FALSE	0.16%
Barium	GWC-6	FALSE	0.16%
Barium	GWC-9	TRUE	0.16%

Notes:

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

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-24	FALSE	0.16%
Barium	GWC-14	FALSE	0.16%
Barium	GWC-3	FALSE	0.16%
Barium	GWC-4	FALSE	0.16%
Barium	GWC-14R	FALSE	0.16%
Barium	GWC-8R	FALSE	0.16%
Cobalt	GWA-3	FALSE	1%
Cobalt	GWC-22	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-13	FALSE	1%
Cobalt	GWC-14A	TRUE	1%
Cobalt	GWC-17	FALSE	1%
Cobalt	GWC-3A	FALSE	1%
Cobalt	GWC-4A	FALSE	1%
Cobalt	GWC-5	FALSE	1%
Cobalt	GWC-7	FALSE	1%
Cobalt	GWC-8	FALSE	1%
Cobalt	GWC-8A	FALSE	1%
Cobalt	GWC-16A	FALSE	1%
Cobalt	GWC-11	FALSE	1%
Cobalt	GWC-12	FALSE	1%
Cobalt	GWC-12A	FALSE	1%
Cobalt	GWC-15	FALSE	1%
Cobalt	GWC-18	FALSE	1%
Cobalt	GWC-19R	FALSE	1%
Cobalt	GWC-2	FALSE	1%
Cobalt	GWC-6	FALSE	1%
Cobalt	GWC-9	FALSE	1%
Cobalt	GWC-24	FALSE	1%
Cobalt	GWC-14	TRUE	1%
Cobalt	GWC-3	FALSE	1%
Cobalt	GWC-4	FALSE	1%
Cobalt	GWC-14R	FALSE	1%
Cobalt	GWC-8R	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  
 First 2023 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	GWA-3	FALSE	0.16%
Cobalt	GWC-22	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-13	FALSE	0.16%
Cobalt	GWC-14A	TRUE	0.16%
Cobalt	GWC-17	FALSE	0.16%
Cobalt	GWC-3A	FALSE	0.16%
Cobalt	GWC-4A	FALSE	0.16%
Cobalt	GWC-5	FALSE	0.16%
Cobalt	GWC-7	FALSE	0.16%
Cobalt	GWC-8	FALSE	0.16%
Cobalt	GWC-8A	FALSE	0.16%
Cobalt	GWC-16A	FALSE	0.16%
Cobalt	GWC-11	FALSE	0.16%
Cobalt	GWC-12	FALSE	0.16%
Cobalt	GWC-12A	FALSE	0.16%
Cobalt	GWC-15	FALSE	0.16%
Cobalt	GWC-18	FALSE	0.16%
Cobalt	GWC-19R	FALSE	0.16%
Cobalt	GWC-2	FALSE	0.16%
Cobalt	GWC-6	FALSE	0.16%
Cobalt	GWC-9	FALSE	0.16%
Cobalt	GWC-24	FALSE	0.16%
Cobalt	GWC-14	TRUE	0.16%
Cobalt	GWC-3	FALSE	0.16%
Cobalt	GWC-4	FALSE	0.16%
Cobalt	GWC-14R	FALSE	0.16%
Cobalt	GWC-8R	FALSE	0.16%
Nickel	GWA-3	FALSE	1%
Nickel	GWC-22	FALSE	1%
Nickel	GWC-23	FALSE	1%
Nickel	GWC-23A	FALSE	1%
Nickel	GWA-1A	FALSE	1%
Nickel	GWC-10	FALSE	1%

Notes:

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

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

Parameter Name	Well ID	Statistically Significant	Confidence Level
Nickel	GWC-10A	FALSE	1%
Nickel	GWC-13	FALSE	1%
Nickel	GWC-14A	TRUE	1%
Nickel	GWC-17	FALSE	1%
Nickel	GWC-3A	FALSE	1%
Nickel	GWC-4A	FALSE	1%
Nickel	GWC-5	FALSE	1%
Nickel	GWC-7	FALSE	1%
Nickel	GWC-8	FALSE	1%
Nickel	GWC-8A	FALSE	1%
Nickel	GWC-16A	FALSE	1%
Nickel	GWC-11	FALSE	1%
Nickel	GWC-12	FALSE	1%
Nickel	GWC-12A	FALSE	1%
Nickel	GWC-15	FALSE	1%
Nickel	GWC-18	FALSE	1%
Nickel	GWC-19R	FALSE	1%
Nickel	GWC-2	FALSE	1%
Nickel	GWC-6	FALSE	1%
Nickel	GWC-9	FALSE	1%
Nickel	GWC-24	FALSE	1%
Nickel	GWC-14	FALSE	1%
Nickel	GWC-3	FALSE	1%
Nickel	GWC-4	FALSE	1%
Nickel	GWC-14R	FALSE	1%
Nickel	GWC-8R	FALSE	1%
Nickel	GWA-3	FALSE	0.16%
Nickel	GWC-22	FALSE	0.16%
Nickel	GWC-23	FALSE	0.16%
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-13	FALSE	0.16%
Nickel	GWC-14A	FALSE	0.16%
Nickel	GWC-17	FALSE	0.16%
Nickel	GWC-3A	FALSE	0.16%
Nickel	GWC-4A	FALSE	0.16%

Notes:

1. Original data are not transformed.
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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  
 First 2023 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Nickel	GWC-5	FALSE	0.16%
Nickel	GWC-7	FALSE	0.16%
Nickel	GWC-8	FALSE	0.16%
Nickel	GWC-8A	FALSE	0.16%
Nickel	GWC-16A	FALSE	0.16%
Nickel	GWC-11	FALSE	0.16%
Nickel	GWC-12	FALSE	0.16%
Nickel	GWC-12A	FALSE	0.16%
Nickel	GWC-15	FALSE	0.16%
Nickel	GWC-18	FALSE	0.16%
Nickel	GWC-19R	FALSE	0.16%
Nickel	GWC-2	FALSE	0.16%
Nickel	GWC-6	FALSE	0.16%
Nickel	GWC-9	FALSE	0.16%
Nickel	GWC-24	FALSE	0.16%
Nickel	GWC-14	FALSE	0.16%
Nickel	GWC-3	FALSE	0.16%
Nickel	GWC-4	FALSE	0.16%
Nickel	GWC-14R	FALSE	0.16%
Nickel	GWC-8R	FALSE	0.16%
Zinc	GWA-3	FALSE	1%
Zinc	GWC-22	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-13	FALSE	1%
Zinc	GWC-14A	FALSE	1%
Zinc	GWC-17	FALSE	1%
Zinc	GWC-3A	FALSE	1%
Zinc	GWC-4A	FALSE	1%
Zinc	GWC-5	FALSE	1%
Zinc	GWC-7	FALSE	1%
Zinc	GWC-8	FALSE	1%
Zinc	GWC-8A	FALSE	1%
Zinc	GWC-16A	FALSE	1%
Zinc	GWC-11	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  
 First 2023 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-12	FALSE	1%
Zinc	GWC-12A	FALSE	1%
Zinc	GWC-15	FALSE	1%
Zinc	GWC-18	FALSE	1%
Zinc	GWC-19R	FALSE	1%
Zinc	GWC-2	FALSE	1%
Zinc	GWC-6	FALSE	1%
Zinc	GWC-9	TRUE	1%
Zinc	GWC-24	FALSE	1%
Zinc	GWC-14	FALSE	1%
Zinc	GWC-3	FALSE	1%
Zinc	GWC-4	FALSE	1%
Zinc	GWC-14R	FALSE	1%
Zinc	GWC-8R	FALSE	1%
Zinc	GWA-3	FALSE	0.16%
Zinc	GWC-22	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-13	FALSE	0.16%
Zinc	GWC-14A	FALSE	0.16%
Zinc	GWC-17	FALSE	0.16%
Zinc	GWC-3A	FALSE	0.16%
Zinc	GWC-4A	FALSE	0.16%
Zinc	GWC-5	FALSE	0.16%
Zinc	GWC-7	FALSE	0.16%
Zinc	GWC-8	FALSE	0.16%
Zinc	GWC-8A	FALSE	0.16%
Zinc	GWC-16A	FALSE	0.16%
Zinc	GWC-11	FALSE	0.16%
Zinc	GWC-12	FALSE	0.16%
Zinc	GWC-12A	FALSE	0.16%
Zinc	GWC-15	FALSE	0.16%
Zinc	GWC-18	FALSE	0.16%
Zinc	GWC-19R	FALSE	0.16%
Zinc	GWC-2	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  
 First 2023 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-6	FALSE	0.16%
Zinc	GWC-9	TRUE	0.16%
Zinc	GWC-24	FALSE	0.16%
Zinc	GWC-14	FALSE	0.16%
Zinc	GWC-3	FALSE	0.16%
Zinc	GWC-4	FALSE	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	12/11/2017	ND<1	173
	6/19/2018	ND<1	173
	12/17/2018	ND<1	173
	6/10/2019	ND<1	173
	12/9/2019	ND<1	173
	6/23/2020	ND<1	173
	12/17/2020	ND<1	173
	6/15/2021	ND<1	173
	12/13/2021	ND<1	173
	6/8/2022	ND<1	173
	12/12/2022	ND<1	173
	12/15/2022	ND<1	173
	6/22/2023	ND<1	173

Rank Sum = 2249

Rank Mean = 173

GWA-2	12/11/2017	ND<1	173
	6/19/2018	ND<1	173
	12/17/2018	ND<1	173
	6/11/2019	ND<1	173
	12/11/2019	ND<1	173
	6/22/2020	ND<1	173
	12/17/2020	ND<1	173
	6/15/2021	ND<1	173
	12/13/2021	ND<1	173
	6/8/2022	ND<1	173
	12/12/2022	ND<1	173
	6/20/2023	ND<1	173

Rank Sum = 2076

Rank Mean = 173

Background Rank Sum = 4325

Background Rank Mean = 173

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/11/2017	ND<1	173
	6/18/2018	ND<1	173
	12/17/2018	ND<1	173
	6/11/2019	ND<1	173
	12/10/2019	ND<1	173
	6/22/2020	ND<1	173
	12/16/2020	ND<1	173
	6/14/2021	ND<1	173
	12/14/2021	ND<1	173
	6/6/2022	ND<1	173

12/13/2022 ND&lt;1 173

6/20/2023 ND&lt;1 173

Rank Sum = 2076

Rank Mean = 173

GWC-22	12/11/2017	ND<1	173
	6/19/2018	ND<1	173
	12/18/2018	ND<1	173
	6/12/2019	ND<1	173
	12/11/2019	ND<1	173
	6/23/2020	ND<1	173
	12/17/2020	ND<1	173
	6/14/2021	ND<1	173
	12/13/2021	ND<1	173
	6/6/2022	ND<1	173
	12/12/2022	ND<1	173
	6/20/2023	ND<1	173

Rank Sum = 2076

Rank Mean = 173

GWC-23	12/11/2017	ND<1	173
	6/18/2018	ND<1	173
	12/18/2018	ND<1	173
	6/12/2019	ND<1	173
	12/11/2019	ND<1	173
	6/24/2020	ND<1	173
	12/16/2020	ND<1	173
	6/14/2021	ND<1	173
	12/13/2021	ND<1	173
	6/6/2022	ND<1	173
	12/12/2022	ND<1	173
	6/21/2023	ND<1	173

Rank Sum = 2076

Rank Mean = 173

GWC-23A	12/11/2017	ND<1	173
	6/18/2018	ND<1	173
	12/18/2018	ND<1	173
	6/12/2019	ND<1	173
	12/11/2019	ND<1	173
	6/24/2020	ND<1	173
	12/16/2020	ND<1	173
	6/14/2021	ND<1	173
	12/13/2021	ND<1	173
	6/6/2022	ND<1	173
	12/12/2022	ND<1	173
	6/21/2023	ND<1	173

Rank Sum = 2076

Rank Mean = 173

GWC-10	12/12/2017	ND<1	173
	6/19/2018	ND<1	173
	12/17/2018	ND<1	173
	6/10/2019	ND<1	173
	12/12/2019	ND<1	173
	6/24/2020	ND<1	173
	12/15/2020	ND<1	173

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

6/15/2021	ND<1	173
12/15/2021	ND<1	173
6/7/2022	ND<1	173
12/14/2022	ND<1	173
6/21/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-10A	12/12/2017	ND<1	173
	6/19/2018	ND<1	173
	12/17/2018	ND<1	173
	6/10/2019	ND<1	173
	12/12/2019	ND<1	173
	6/24/2020	ND<1	173
	12/15/2020	ND<1	173
	6/15/2021	ND<1	173
	12/15/2021	ND<1	173
	6/7/2022	ND<1	173
	12/14/2022	ND<1	173
	6/21/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-13	12/12/2017	ND<1	173
	6/19/2018	ND<1	173
	12/19/2018	ND<1	173
	6/12/2019	ND<1	173
	12/11/2019	ND<1	173
	6/23/2020	ND<1	173
	12/15/2020	ND<1	173
	6/15/2021	ND<1	173
	12/15/2021	ND<1	173
	6/8/2022	ND<1	173
	12/12/2022	ND<1	173
	6/20/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-14A	12/12/2017	23	395
	6/20/2018	17	386
	12/19/2018	16	383
	6/11/2019	9.2	362
	12/10/2019	14	379
	6/24/2020	10	367
	12/15/2020	11	368
	6/15/2021	9.2	363
	12/14/2021	13	376
	6/9/2022	9.5	365
	12/13/2022	18	387
	6/20/2023	12	372

Rank Sum = 4503  
Rank Mean = 375.25

GWC-14R	12/12/2017	20	392
	6/20/2018	22	393
	12/19/2018	18	388
	6/12/2019	18	389

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

12/10/2019	14	380
6/23/2020	18	390
12/17/2020	19	391
6/16/2021	16	384
12/14/2021	14	381
6/9/2022	11	369
12/13/2022	12	373
6/21/2023	11	370

Rank Sum = 4600  
Rank Mean = 383.333

GWC-17	12/12/2017	ND<1	173
	6/19/2018	ND<1	173
	12/19/2018	ND<1	173
	6/12/2019	ND<1	173
	12/10/2019	ND<1	173
	6/23/2020	ND<1	173
	12/15/2020	ND<1	173
	6/14/2021	ND<1	173
	12/14/2021	ND<1	173
	6/9/2022	ND<1	173
	12/14/2022	ND<1	173
	6/20/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-3A	12/12/2017	ND<1	173
	6/20/2018	ND<1	173
	12/17/2018	ND<1	173
	6/11/2019	ND<1	173
	12/10/2019	ND<1	173
	6/24/2020	ND<1	173
	12/16/2020	ND<1	173
	6/14/2021	ND<1	173
	12/15/2021	ND<1	173
	6/7/2022	ND<1	173
	12/12/2022	ND<1	173
	6/19/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-4A	12/12/2017	ND<1	173
	6/20/2018	ND<1	173
	12/17/2018	ND<1	173
	6/11/2019	ND<1	173
	12/11/2019	ND<1	173
	6/23/2020	ND<1	173
	12/17/2020	ND<1	173
	6/17/2021	ND<1	173
	12/15/2021	ND<1	173
	6/8/2022	ND<1	173
	12/14/2022	ND<1	173
	6/21/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-5	12/12/2017	ND<1	173
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Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

6/21/2018	ND<1	173
12/18/2018	ND<1	173
6/12/2019	ND<1	173
12/10/2019	ND<1	173
6/23/2020	ND<1	173
12/17/2020	ND<1	173
6/15/2021	ND<1	173
12/13/2021	ND<1	173
6/8/2022	ND<1	173
12/12/2022	ND<1	173
6/20/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-7	12/12/2017	ND<1	173
	6/19/2018	ND<1	173
	12/18/2018	ND<1	173
	6/12/2019	ND<1	173
	12/11/2019	ND<1	173
	6/24/2020	ND<1	173
	12/17/2020	ND<1	173
	6/15/2021	ND<1	173
	12/13/2021	ND<1	173
	6/8/2022	ND<1	173
	12/12/2022	ND<1	173
	6/20/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-8	12/12/2017	ND<1	173
	6/20/2018	ND<1	173
	12/19/2018	ND<1	173
	6/12/2019	ND<1	173
	12/11/2019	ND<1	173
	6/23/2020	ND<1	173
	12/16/2020	ND<1	173
	6/16/2021	ND<1	173
	12/15/2021	ND<1	173
	6/9/2022	ND<1	173
	12/13/2022	ND<1	173
	6/21/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-8A	12/12/2017	4.9	359
	6/20/2018	3.9	357
	12/19/2018	4.2	358
	6/12/2019	2.6	352
	12/11/2019	3.7	355
	6/23/2020	2.4	349
	12/15/2020	3.2	354
	6/16/2021	2.5	350
	12/15/2021	2.3	348
	6/9/2022	2.1	347
	12/13/2022	2.5	351
	6/21/2023	ND<1	173

Rank Sum = 4053

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

Rank Mean = 337.75

GWC-8R	12/12/2017	14	382
	6/20/2018	22	394
	12/19/2018	13	377
	6/12/2019	12	374
	12/11/2019	9.3	364
	6/23/2020	13	378
	12/15/2020	12	375
	6/16/2021	16	385
	12/15/2021	11	371
	6/9/2022	8.8	360
	12/13/2022	9	361
	6/21/2023	9.8	366

Rank Sum = 4487  
Rank Mean = 373.917

GWC-16A	12/13/2017	ND<1	173
	6/21/2018	ND<1	173
	12/19/2018	ND<1	173
	6/13/2019	ND<1	173
	12/11/2019	ND<1	173
	6/23/2020	ND<1	173
	12/17/2020	ND<1	173
	6/16/2021	ND<1	173
	12/16/2021	ND<1	173
	6/9/2022	ND<1	173
	12/14/2022	ND<1	173
	6/20/2023	2	346

Rank Sum = 2249  
Rank Mean = 187.417

GWA-1A	12/13/2017	ND<1	173
	6/19/2018	ND<1	173
	12/18/2018	ND<1	173
	6/10/2019	ND<1	173
	12/9/2019	ND<1	173
	6/23/2020	ND<1	173
	12/17/2020	ND<1	173
	6/17/2021	ND<1	173
	12/16/2021	ND<1	173
	6/8/2022	ND<1	173
	12/14/2022	ND<1	173
	6/22/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-11	12/13/2017	ND<1	173
	6/19/2018	ND<1	173
	12/19/2018	ND<1	173
	6/12/2019	ND<1	173
	12/12/2019	ND<1	173
	6/24/2020	ND<1	173
	12/15/2020	ND<1	173
	6/15/2021	ND<1	173
	12/13/2021	ND<1	173
	6/7/2022	ND<1	173

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

12/12/2022 ND<1 173  
 6/20/2023 ND<1 173  
 Rank Sum = 2076  
 Rank Mean = 173

GWC-12 12/13/2017 ND<1 173  
 6/19/2018 ND<1 173  
 12/19/2018 ND<1 173  
 6/11/2019 ND<1 173  
 12/9/2019 ND<1 173  
 6/24/2020 ND<1 173  
 12/15/2020 ND<1 173  
 6/15/2021 ND<1 173  
 12/13/2021 ND<1 173  
 6/7/2022 ND<1 173  
 12/12/2022 ND<1 173  
 6/20/2023 ND<1 173

Rank Sum = 2076  
 Rank Mean = 173

GWC-12A 12/13/2017 ND<1 173  
 6/19/2018 ND<1 173  
 12/19/2018 ND<1 173  
 6/11/2019 ND<1 173  
 12/9/2019 ND<1 173  
 6/24/2020 ND<1 173  
 12/15/2020 ND<1 173  
 6/15/2021 ND<1 173  
 12/13/2021 ND<1 173  
 6/7/2022 ND<1 173  
 12/12/2022 ND<1 173  
 6/20/2023 ND<1 173

Rank Sum = 2076  
 Rank Mean = 173

GWC-15 12/13/2017 3.7 356  
 6/19/2018 ND<1 173  
 12/19/2018 3 353  
 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  
 6/22/2023 ND<1 173

Rank Sum = 4021  
 Rank Mean = 335.083

GWC-18 12/13/2017 ND<1 173  
 6/19/2018 ND<1 173  
 12/18/2018 ND<1 173  
 6/11/2019 ND<1 173  
 12/9/2019 ND<1 173  
 6/23/2020 ND<1 173  
 12/15/2020 ND<1 173

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

6/14/2021 ND<1 173  
 12/14/2021 ND<1 173  
 6/7/2022 ND<1 173  
 12/14/2022 ND<1 173  
 6/20/2023 ND<1 173

Rank Sum = 2076  
 Rank Mean = 173

GWC-19R 12/13/2017 ND<1 173  
 6/19/2018 ND<1 173  
 12/18/2018 ND<1 173  
 6/11/2019 ND<1 173  
 12/9/2019 ND<1 173  
 6/23/2020 ND<1 173  
 12/15/2020 ND<1 173  
 6/14/2021 ND<1 173  
 12/14/2021 ND<1 173  
 6/6/2022 ND<1 173  
 12/14/2022 ND<1 173  
 6/20/2023 ND<1 173

Rank Sum = 2076  
 Rank Mean = 173

GWC-2 12/13/2017 ND<1 173  
 6/20/2018 ND<1 173  
 12/19/2018 ND<1 173  
 6/12/2019 ND<1 173  
 12/10/2019 ND<1 173  
 6/22/2020 ND<1 173  
 12/16/2020 ND<1 173  
 6/15/2021 ND<1 173  
 12/15/2021 ND<1 173  
 6/7/2022 ND<1 173  
 12/12/2022 ND<1 173  
 6/19/2023 ND<1 173

Rank Sum = 2076  
 Rank Mean = 173

GWC-24 12/13/2017 ND<1 173  
 6/19/2018 ND<1 173  
 12/19/2018 ND<1 173  
 6/11/2019 ND<1 173  
 12/9/2019 ND<1 173  
 6/24/2020 ND<1 173  
 12/15/2020 ND<1 173  
 6/14/2021 ND<1 173  
 12/14/2021 ND<1 173  
 6/7/2022 ND<1 173  
 12/14/2022 ND<1 173  
 6/20/2023 ND<1 173

Rank Sum = 2076  
 Rank Mean = 173

GWC-6 12/13/2017 ND<1 173  
 6/21/2018 ND<1 173  
 12/19/2018 ND<1 173  
 6/12/2019 ND<1 173

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

12/10/2019	ND<1	173
6/24/2020	ND<1	173
12/17/2020	ND<1	173
6/15/2021	ND<1	173
12/13/2021	ND<1	173
6/8/2022	ND<1	173
12/14/2022	ND<1	173
6/20/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-9	12/13/2017	ND<1	173
	6/20/2018	ND<1	173
	12/18/2018	ND<1	173
	6/12/2019	ND<1	173
	12/12/2019	ND<1	173
	6/24/2020	ND<1	173
	12/17/2020	ND<1	173
	6/15/2021	ND<1	173
	12/13/2021	ND<1	173
	6/7/2022	ND<1	173
	12/14/2022	ND<1	173
	6/20/2023	ND<1	173

Rank Sum = 2076  
Rank Mean = 173

GWC-14	6/20/2018	ND<1	173
	6/11/2019	ND<1	173
	12/10/2019	ND<1	173
	6/24/2020	ND<1	173
	12/17/2020	ND<1	173
	6/15/2021	ND<1	173
	12/15/2021	ND<1	173
	6/9/2022	ND<1	173
	12/13/2022	ND<1	173
	6/21/2023	ND<1	173

Rank Sum = 1730  
Rank Mean = 173

GWC-4	6/20/2018	ND<1	173
	6/23/2020	ND<1	173
	12/17/2020	ND<1	173
	6/16/2021	ND<1	173
	12/14/2021	ND<1	173
	6/8/2022	ND<1	173
	12/12/2022	ND<1	173
	6/20/2023	ND<1	173

Rank Sum = 1384  
Rank Mean = 173

GWC-3	6/21/2018	ND<1	173
	12/17/2018	ND<1	173
	6/11/2019	ND<1	173
	12/10/2019	ND<1	173
	6/24/2020	ND<1	173
	12/16/2020	ND<1	173
	6/15/2021	ND<1	173

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

12/15/2021	ND<1	173
6/7/2022	ND<1	173
12/12/2022	ND<1	173
6/19/2023	ND<1	173

Rank Sum = 1903  
Rank Mean = 173

**Calculation Results:**

Kruskal-Wallis H Statistic = 135.038

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 367.041

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**135.038 > 46.1942 indicating a significant group difference at 5% significance level**

**367.041 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	173	0	94.9268
GWC-22	173	0	94.9268
GWC-23	173	0	94.9268
GWC-23A	173	0	94.9268
GWC-10	173	0	94.9268
GWC-10A	173	0	94.9268
GWC-13	173	0	94.9268
<b>GWC-14A</b>	<b>375.25</b>	<b>202.25</b>	<b>94.9268</b>
<b>GWC-14R</b>	<b>383.333</b>	<b>210.333</b>	<b>94.9268</b>
GWC-17	173	0	94.9268
GWC-3A	173	0	94.9268
GWC-4A	173	0	94.9268
GWC-5	173	0	94.9268
GWC-7	173	0	94.9268
GWC-8	173	0	94.9268
<b>GWC-8A</b>	<b>337.75</b>	<b>164.75</b>	<b>94.9268</b>
<b>GWC-8R</b>	<b>373.917</b>	<b>200.917</b>	<b>94.9268</b>
GWC-16A	187.417	14.4167	94.9268
GWA-1A	173	0	94.9268
GWC-11	173	0	94.9268
GWC-12	173	0	94.9268
GWC-12A	173	0	94.9268
<b>GWC-15</b>	<b>335.083</b>	<b>162.083</b>	<b>94.9268</b>
GWC-18	173	0	94.9268
GWC-19R	173	0	94.9268
GWC-2	173	0	94.9268
GWC-24	173	0	94.9268
GWC-6	173	0	94.9268
GWC-9	173	0	94.9268
GWC-14	173	0	101.138
GWC-4	173	0	109.797
GWC-3	173	0	97.7988

**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

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	173	0	126.098
GWC-22	173	0	126.098
GWC-23	173	0	126.098
GWC-23A	173	0	126.098
GWC-10	173	0	126.098
GWC-10A	173	0	126.098
GWC-13	173	0	126.098
<b>GWC-14A</b>	<b>375.25</b>	<b>202.25</b>	<b>126.098</b>
<b>GWC-14R</b>	<b>383.333</b>	<b>210.333</b>	<b>126.098</b>
GWC-17	173	0	126.098
GWC-3A	173	0	126.098
GWC-4A	173	0	126.098
GWC-5	173	0	126.098
GWC-7	173	0	126.098
GWC-8	173	0	126.098
<b>GWC-8A</b>	<b>337.75</b>	<b>164.75</b>	<b>126.098</b>
<b>GWC-8R</b>	<b>373.917</b>	<b>200.917</b>	<b>126.098</b>
GWC-16A	187.417	14.4167	126.098
GWA-1A	173	0	126.098
GWC-11	173	0	126.098
GWC-12	173	0	126.098
GWC-12A	173	0	126.098
<b>GWC-15</b>	<b>335.083</b>	<b>162.083</b>	<b>126.098</b>
GWC-18	173	0	126.098
GWC-19R	173	0	126.098
GWC-2	173	0	126.098
GWC-24	173	0	126.098
GWC-6	173	0	126.098
GWC-9	173	0	126.098
GWC-14	173	0	134.348
GWC-4	173	0	145.851
GWC-3	173	0	129.913

## 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	12/11/2017	ND<1	188.5
	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

Rank Sum = 2450.5

Rank Mean = 188.5

GWA-2	12/11/2017	ND<1	188.5
	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

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	12/11/2017	ND<1	188.5
	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

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

	12/13/2022	ND<1	188.5
	6/20/2023	ND<1	188.5

Rank Sum = 2262  
Rank Mean = 188.5

GWC-22	12/11/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-23	12/11/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-23A	12/11/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-10	12/12/2017	ND<1	188.5
	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

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Benzene

	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-10A	12/12/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-13	12/12/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-14A	12/12/2017	3	392
	6/20/2018	2.8	388
	12/19/2018	2.5	382
	6/11/2019	2.1	379
	12/10/2019	2.6	385
	6/24/2020	2.5	383
	12/15/2020	2.9	391
	6/15/2021	2.6	386
	12/14/2021	3	393
	6/9/2022	2.5	384
	12/13/2022	3.3	396
	6/20/2023	2.8	389

Rank Sum = 4648  
Rank Mean = 387.333

GWC-14R	12/12/2017	ND<1	188.5
	6/20/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5

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Benzene

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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-17	12/12/2017	ND<1	188.5
	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 = 2262  
Rank Mean = 188.5

GWC-3A	12/12/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-4A	12/12/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-5	12/12/2017	ND<1	188.5
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Benzene

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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-7	12/12/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-8	12/12/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-8A	12/12/2017	3.8	400
	6/20/2018	2.7	387
	12/19/2018	3.3	397
	6/12/2019	ND<1	188.5
	12/11/2019	2.8	390
	6/23/2020	ND<1	188.5
	12/15/2020	2.3	380
	6/16/2021	ND<1	188.5
	12/15/2021	ND<1	188.5
	6/9/2022	2	377
	12/13/2022	2.4	381
	6/21/2023	ND<1	188.5

Rank Sum = 3654.5



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Benzene

Rank Mean = 304.542

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GWC-8R	12/12/2017	ND<1	188.5
	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

Rank Sum = 2451.5  
Rank Mean = 204.292

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GWC-16A	12/13/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

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GWA-1A	12/13/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

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GWC-11	12/13/2017	ND<1	188.5
	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

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

12/12/2022	ND<1	188.5
6/20/2023	ND<1	188.5

Rank Sum = 2262  
Rank Mean = 188.5

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GWC-12	12/13/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

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GWC-12A	12/13/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

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GWC-15	12/13/2017	ND<1	188.5
	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	398
	12/17/2020	3.1	395
	6/16/2021	3.9	401
	12/14/2021	3.7	399
	6/9/2022	4.2	402
	12/15/2022	ND<1	188.5
	6/22/2023	ND<1	188.5

Rank Sum = 3520  
Rank Mean = 293.333

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GWC-18	12/13/2017	ND<1	188.5
	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

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-19R	12/13/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-2	12/13/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-24	12/13/2017	ND<1	188.5
	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-6	12/13/2017	ND<1	188.5
	6/21/2018	ND<1	188.5
	12/19/2018	ND<1	188.5
	6/12/2019	ND<1	188.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

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
12/13/2021	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

Rank Sum = 2262  
Rank Mean = 188.5

GWC-9	12/13/2017	ND<1	188.5
	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
	12/14/2022	ND<1	188.5
	6/20/2023	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

Rank Sum = 1885  
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

Rank Sum = 1508  
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

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

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

**Calculation Results:**

Kruskal-Wallis H Statistic = 52.0676

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 286.476

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**52.0676 > 46.1942 indicating a significant group difference at 5% significance level**

**286.476 > 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	94.9268
GWC-22	188.5	0	94.9268
GWC-23	188.5	0	94.9268
GWC-23A	188.5	0	94.9268
GWC-10	188.5	0	94.9268
GWC-10A	188.5	0	94.9268
GWC-13	188.5	0	94.9268
<b>GWC-14A</b>	<b>387.333</b>	<b>198.833</b>	<b>94.9268</b>
GWC-14R	188.5	0	94.9268
GWC-17	188.5	0	94.9268
GWC-3A	188.5	0	94.9268
GWC-4A	188.5	0	94.9268
GWC-5	188.5	0	94.9268
GWC-7	188.5	0	94.9268
GWC-8	188.5	0	94.9268
<b>GWC-8A</b>	<b>304.542</b>	<b>116.042</b>	<b>94.9268</b>
GWC-8R	204.292	15.7917	94.9268
GWC-16A	188.5	0	94.9268
GWA-1A	188.5	0	94.9268
GWC-11	188.5	0	94.9268
GWC-12	188.5	0	94.9268
GWC-12A	188.5	0	94.9268
<b>GWC-15</b>	<b>293.333</b>	<b>104.833</b>	<b>94.9268</b>
GWC-18	188.5	0	94.9268
GWC-19R	188.5	0	94.9268
GWC-2	188.5	0	94.9268
GWC-24	188.5	0	94.9268
GWC-6	188.5	0	94.9268
GWC-9	188.5	0	94.9268
GWC-14	188.5	0	101.138
GWC-4	188.5	0	109.797
GWC-3	188.5	0	97.7988

**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 188.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	188.5	0	126.098
GWC-22	188.5	0	126.098
GWC-23	188.5	0	126.098
GWC-23A	188.5	0	126.098
GWC-10	188.5	0	126.098
GWC-10A	188.5	0	126.098
GWC-13	188.5	0	126.098
<b>GWC-14A</b>	<b>387.333</b>	<b>198.833</b>	<b>126.098</b>
GWC-14R	188.5	0	126.098
GWC-17	188.5	0	126.098
GWC-3A	188.5	0	126.098
GWC-4A	188.5	0	126.098
GWC-5	188.5	0	126.098
GWC-7	188.5	0	126.098
GWC-8	188.5	0	126.098
GWC-8A	304.542	116.042	126.098
GWC-8R	204.292	15.7917	126.098
GWC-16A	188.5	0	126.098
GWA-1A	188.5	0	126.098
GWC-11	188.5	0	126.098
GWC-12	188.5	0	126.098
GWC-12A	188.5	0	126.098
GWC-15	293.333	104.833	126.098
GWC-18	188.5	0	126.098
GWC-19R	188.5	0	126.098
GWC-2	188.5	0	126.098
GWC-24	188.5	0	126.098
GWC-6	188.5	0	126.098
GWC-9	188.5	0	126.098
GWC-14	188.5	0	134.348
GWC-4	188.5	0	145.851
GWC-3	188.5	0	129.913

**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	12/11/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/10/2019	ND<5	198
	12/9/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
	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

Rank Sum = 2574  
 Rank Mean = 198

GWA-2	12/11/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/11/2019	ND<5	198
	6/22/2020	ND<5	198
	12/17/2020	ND<5	198
	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

Rank Sum = 2376  
 Rank Mean = 198

Background Rank Sum = 4950  
 Background Rank Mean = 198

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/11/2017	ND<5	198
	6/18/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/22/2020	ND<5	198
	12/16/2020	ND<5	198
	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

Rank Sum = 2376  
 Rank Mean = 198

GWC-22	12/11/2017	ND<5	198
	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
	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

Rank Sum = 2376  
 Rank Mean = 198

GWC-23	12/11/2017	ND<5	198
	6/18/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/24/2020	ND<5	198
	12/16/2020	ND<5	198
	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

Rank Sum = 2376  
 Rank Mean = 198

GWC-23A	12/11/2017	ND<5	198
	6/18/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/24/2020	ND<5	198
	12/16/2020	ND<5	198
	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

Rank Sum = 2376  
 Rank Mean = 198

GWC-10	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/10/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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

Rank Sum = 2376  
Rank Mean = 198

GWC-10A	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/17/2018	ND<5	198
	6/10/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-13	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-14A	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/24/2020	12	396
	12/15/2020	16	401
	6/15/2021	15	399
	12/14/2021	15	400
	6/9/2022	17	402
	12/13/2022	14	398
	6/20/2023	12	397

Rank Sum = 3783  
Rank Mean = 315.25

GWC-14R	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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

Rank Sum = 2376  
Rank Mean = 198

GWC-17	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/10/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198
	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 = 2376  
Rank Mean = 198

GWC-3A	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/10/2019	ND<5	198
	6/24/2020	ND<5	198
	12/16/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-4A	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/17/2018	ND<5	198
	6/11/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-5	12/12/2017	ND<5	198
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Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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

Rank Sum = 2376  
Rank Mean = 198

GWC-7	12/12/2017	ND<5	198
	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/24/2020	ND<5	198
	12/17/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-8	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/16/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-8A	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198
	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

Rank Sum = 2376

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

Rank Mean = 198

GWC-8R	12/12/2017	ND<5	198
	6/20/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/15/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-16A	12/13/2017	ND<5	198
	6/21/2018	ND<5	198
	12/19/2018	ND<5	198
	6/13/2019	ND<5	198
	12/11/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWA-1A	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/18/2018	ND<5	198
	6/10/2019	ND<5	198
	12/9/2019	ND<5	198
	6/23/2020	ND<5	198
	12/17/2020	ND<5	198
	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

Rank Sum = 2376  
Rank Mean = 198

GWC-11	12/13/2017	ND<5	198
	6/19/2018	ND<5	198
	12/19/2018	ND<5	198
	6/12/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/15/2020	ND<5	198
	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

12/12/2022 ND<5 198  
 6/20/2023 ND<5 198  
 Rank Sum = 2376  
 Rank Mean = 198

GWC-12 12/13/2017 ND<5 198  
 6/19/2018 ND<5 198  
 12/19/2018 ND<5 198  
 6/11/2019 ND<5 198  
 12/9/2019 ND<5 198  
 6/24/2020 ND<5 198  
 12/15/2020 ND<5 198  
 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

Rank Sum = 2376  
 Rank Mean = 198

GWC-12A 12/13/2017 ND<5 198  
 6/19/2018 ND<5 198  
 12/19/2018 ND<5 198  
 6/11/2019 ND<5 198  
 12/9/2019 ND<5 198  
 6/24/2020 ND<5 198  
 12/15/2020 ND<5 198  
 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

Rank Sum = 2376  
 Rank Mean = 198

GWC-15 12/13/2017 ND<5 198  
 6/19/2018 ND<5 198  
 12/19/2018 ND<5 198  
 6/11/2019 ND<5 198  
 12/10/2019 ND<5 198  
 6/25/2020 ND<5 198  
 12/17/2020 ND<5 198  
 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

Rank Sum = 2376  
 Rank Mean = 198

GWC-18 12/13/2017 ND<5 198  
 6/19/2018 ND<5 198  
 12/18/2018 ND<5 198  
 6/11/2019 ND<5 198  
 12/9/2019 ND<5 198  
 6/23/2020 ND<5 198  
 12/15/2020 ND<5 198

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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

Rank Sum = 2376  
 Rank Mean = 198

GWC-19R 12/13/2017 ND<5 198  
 6/19/2018 ND<5 198  
 12/18/2018 ND<5 198  
 6/11/2019 ND<5 198  
 12/9/2019 ND<5 198  
 6/23/2020 ND<5 198  
 12/15/2020 ND<5 198  
 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

Rank Sum = 2376  
 Rank Mean = 198

GWC-2 12/13/2017 ND<5 198  
 6/20/2018 ND<5 198  
 12/19/2018 ND<5 198  
 6/12/2019 ND<5 198  
 12/10/2019 ND<5 198  
 6/22/2020 ND<5 198  
 12/16/2020 ND<5 198  
 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 = 2376  
 Rank Mean = 198

GWC-24 12/13/2017 ND<5 198  
 6/19/2018 ND<5 198  
 12/19/2018 ND<5 198  
 6/11/2019 ND<5 198  
 12/9/2019 ND<5 198  
 6/24/2020 ND<5 198  
 12/15/2020 ND<5 198  
 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

Rank Sum = 2376  
 Rank Mean = 198

GWC-6 12/13/2017 ND<5 198  
 6/21/2018 ND<5 198  
 12/19/2018 ND<5 198  
 6/12/2019 ND<5 198

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

12/10/2019	ND<5	198
6/24/2020	ND<5	198
12/17/2020	ND<5	198
6/15/2021	ND<5	198
12/13/2021	ND<5	198
6/8/2022	ND<5	198
12/14/2022	ND<5	198
6/20/2023	ND<5	198

Rank Sum = 2376  
Rank Mean = 198

GWC-9	12/13/2017	ND<5	198
	6/20/2018	ND<5	198
	12/18/2018	ND<5	198
	6/12/2019	ND<5	198
	12/12/2019	ND<5	198
	6/24/2020	ND<5	198
	12/17/2020	ND<5	198
	6/15/2021	ND<5	198
	12/13/2021	ND<5	198
	6/7/2022	ND<5	198
	12/14/2022	ND<5	198
	6/20/2023	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

Rank Sum = 1980  
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

Rank Sum = 1584  
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

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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

**Calculation Results:**

Kruskal-Wallis H Statistic = 11.8548

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 230.932

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

11.8548 < 46.1942 indicating no significant group difference at 5% significance level

**230.932 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 198

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	94.9268
GWC-22	198	0	94.9268
GWC-23	198	0	94.9268
GWC-23A	198	0	94.9268
GWC-10	198	0	94.9268
GWC-10A	198	0	94.9268
GWC-13	198	0	94.9268
<b>GWC-14A</b>	<b>315.25</b>	<b>117.25</b>	<b>94.9268</b>
GWC-14R	198	0	94.9268
GWC-17	198	0	94.9268
GWC-3A	198	0	94.9268
GWC-4A	198	0	94.9268
GWC-5	198	0	94.9268
GWC-7	198	0	94.9268
GWC-8	198	0	94.9268
GWC-8A	198	0	94.9268
GWC-8R	198	0	94.9268
GWC-16A	198	0	94.9268
GWA-1A	198	0	94.9268
GWC-11	198	0	94.9268
GWC-12	198	0	94.9268
GWC-12A	198	0	94.9268
GWC-15	198	0	94.9268
GWC-18	198	0	94.9268
GWC-19R	198	0	94.9268
GWC-2	198	0	94.9268
GWC-24	198	0	94.9268
GWC-6	198	0	94.9268
GWC-9	198	0	94.9268
GWC-14	198	0	101.138
GWC-4	198	0	109.797
GWC-3	198	0	97.7988

**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



Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	198	0	126.098
GWC-22	198	0	126.098
GWC-23	198	0	126.098
GWC-23A	198	0	126.098
GWC-10	198	0	126.098
GWC-10A	198	0	126.098
GWC-13	198	0	126.098
GWC-14A	315.25	117.25	126.098
GWC-14R	198	0	126.098
GWC-17	198	0	126.098
GWC-3A	198	0	126.098
GWC-4A	198	0	126.098
GWC-5	198	0	126.098
GWC-7	198	0	126.098
GWC-8	198	0	126.098
GWC-8A	198	0	126.098
GWC-8R	198	0	126.098
GWC-16A	198	0	126.098
GWA-1A	198	0	126.098
GWC-11	198	0	126.098
GWC-12	198	0	126.098
GWC-12A	198	0	126.098
GWC-15	198	0	126.098
GWC-18	198	0	126.098
GWC-19R	198	0	126.098
GWC-2	198	0	126.098
GWC-24	198	0	126.098
GWC-6	198	0	126.098
GWC-9	198	0	126.098
GWC-14	198	0	134.348
GWC-4	198	0	145.851
GWC-3	198	0	129.913

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

**Kruskal-Wallis Non-Parametric Test**

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	12/11/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	12/15/2022	ND<1	195.5
	6/22/2023	ND<1	195.5

Rank Sum = 2541.5

Rank Mean = 195.5

GWA-2	12/11/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/22/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346

Rank Mean = 195.5

Background Rank Sum = 4887.5

Background Rank Mean = 195.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/11/2017	ND<1	195.5
	6/18/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/22/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/6/2022	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

12/13/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-22	12/11/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-23	12/11/2017	ND<1	195.5
	6/18/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-23A	12/11/2017	ND<1	195.5
	6/18/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-10	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

6/15/2021	ND<1	195.5
12/15/2021	ND<1	195.5
6/7/2022	ND<1	195.5
12/14/2022	ND<1	195.5
6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-10A	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-13	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-14A	12/12/2017	7.7	401
	6/20/2018	8.5	402
	12/19/2018	5.4	400
	6/11/2019	4.4	398
	12/10/2019	3.6	395
	6/24/2020	3.3	393
	12/15/2020	4.2	397
	6/15/2021	3	392
	12/14/2021	5	399
	6/9/2022	3.7	396
	12/13/2022	3.4	394
	6/20/2023	2.4	391

Rank Sum = 4758  
Rank Mean = 396.5

GWC-14R	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

12/10/2019	ND<1	195.5
6/23/2020	ND<1	195.5
12/17/2020	ND<1	195.5
6/16/2021	ND<1	195.5
12/14/2021	ND<1	195.5
6/9/2022	ND<1	195.5
12/13/2022	ND<1	195.5
6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-17	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-3A	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/19/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-4A	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/17/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-5	12/12/2017	ND<1	195.5
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Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

6/21/2018	ND<1	195.5
12/18/2018	ND<1	195.5
6/12/2019	ND<1	195.5
12/10/2019	ND<1	195.5
6/23/2020	ND<1	195.5
12/17/2020	ND<1	195.5
6/15/2021	ND<1	195.5
12/13/2021	ND<1	195.5
6/8/2022	ND<1	195.5
12/12/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-7	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-8	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-8A	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

Rank Mean = 195.5

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GWC-8R	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-16A	12/13/2017	ND<1	195.5
	6/21/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/13/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/16/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWA-1A	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/17/2021	ND<1	195.5
	12/16/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/22/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-11	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-12	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-12A	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-15	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/25/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/15/2022	ND<1	195.5
	6/22/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-18	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

6/14/2021	ND<1	195.5
12/14/2021	ND<1	195.5
6/7/2022	ND<1	195.5
12/14/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-19R	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-2	12/13/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/22/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/19/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-24	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-6	12/13/2017	ND<1	195.5
	6/21/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

12/10/2019	ND<1	195.5
6/24/2020	ND<1	195.5
12/17/2020	ND<1	195.5
6/15/2021	ND<1	195.5
12/13/2021	ND<1	195.5
6/8/2022	ND<1	195.5
12/14/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-9	12/13/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-14	6/20/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 1955  
Rank Mean = 195.5

GWC-4	6/20/2018	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 1564  
Rank Mean = 195.5

GWC-3	6/21/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/15/2021	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

12/15/2021	ND<1	195.5
6/7/2022	ND<1	195.5
12/12/2022	ND<1	195.5
6/19/2023	ND<1	195.5

Rank Sum = 2150.5

Rank Mean = 195.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 34.8387

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 400.878

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

34.8387 < 46.1942 indicating no significant group difference at 5% significance level

**400.878 > 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 195.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	195.5	0	94.9268
GWC-22	195.5	0	94.9268
GWC-23	195.5	0	94.9268
GWC-23A	195.5	0	94.9268
GWC-10	195.5	0	94.9268
GWC-10A	195.5	0	94.9268
GWC-13	195.5	0	94.9268
<b>GWC-14A</b>	<b>396.5</b>	<b>201</b>	<b>94.9268</b>
GWC-14R	195.5	0	94.9268
GWC-17	195.5	0	94.9268
GWC-3A	195.5	0	94.9268
GWC-4A	195.5	0	94.9268
GWC-5	195.5	0	94.9268
GWC-7	195.5	0	94.9268
GWC-8	195.5	0	94.9268
GWC-8A	195.5	0	94.9268
GWC-8R	195.5	0	94.9268
GWC-16A	195.5	0	94.9268
GWA-1A	195.5	0	94.9268
GWC-11	195.5	0	94.9268
GWC-12	195.5	0	94.9268
GWC-12A	195.5	0	94.9268
GWC-15	195.5	0	94.9268
GWC-18	195.5	0	94.9268
GWC-19R	195.5	0	94.9268
GWC-2	195.5	0	94.9268
GWC-24	195.5	0	94.9268
GWC-6	195.5	0	94.9268
GWC-9	195.5	0	94.9268
GWC-14	195.5	0	101.138
GWC-4	195.5	0	109.797
GWC-3	195.5	0	97.7988

**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 195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	195.5	0	126.098
GWC-22	195.5	0	126.098
GWC-23	195.5	0	126.098
GWC-23A	195.5	0	126.098
GWC-10	195.5	0	126.098
GWC-10A	195.5	0	126.098
GWC-13	195.5	0	126.098
<b>GWC-14A</b>	<b>396.5</b>	<b>201</b>	<b>126.098</b>
GWC-14R	195.5	0	126.098
GWC-17	195.5	0	126.098
GWC-3A	195.5	0	126.098
GWC-4A	195.5	0	126.098
GWC-5	195.5	0	126.098
GWC-7	195.5	0	126.098
GWC-8	195.5	0	126.098
GWC-8A	195.5	0	126.098
GWC-8R	195.5	0	126.098
GWC-16A	195.5	0	126.098
GWA-1A	195.5	0	126.098
GWC-11	195.5	0	126.098
GWC-12	195.5	0	126.098
GWC-12A	195.5	0	126.098
GWC-15	195.5	0	126.098
GWC-18	195.5	0	126.098
GWC-19R	195.5	0	126.098
GWC-2	195.5	0	126.098
GWC-24	195.5	0	126.098
GWC-6	195.5	0	126.098
GWC-9	195.5	0	126.098
GWC-14	195.5	0	134.348
GWC-4	195.5	0	145.851
GWC-3	195.5	0	129.913

**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	12/11/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/10/2019	ND<1	146.5
	12/9/2019	ND<1	146.5
	6/23/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/8/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	12/15/2022	ND<1	146.5
	6/22/2023	ND<1	146.5

Rank Sum = 1904.5

Rank Mean = 146.5

GWA-2	12/11/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/11/2019	ND<1	146.5
	12/11/2019	ND<1	146.5
	6/22/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/8/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/20/2023	ND<1	146.5

Rank Sum = 1758

Rank Mean = 146.5

Background Rank Sum = 3662.5

Background Rank Mean = 146.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/11/2017	ND<1	146.5
	6/18/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/11/2019	ND<1	146.5
	12/10/2019	ND<1	146.5
	6/22/2020	ND<1	146.5
	12/16/2020	ND<1	146.5
	6/14/2021	ND<1	146.5
	12/14/2021	ND<1	146.5
6/6/2022	ND<1	146.5	

	12/13/2022	ND<1	146.5
	6/20/2023	ND<1	146.5

Rank Sum = 1758

Rank Mean = 146.5

GWC-22	12/11/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/18/2018	ND<1	146.5
	6/12/2019	ND<1	146.5
	12/11/2019	ND<1	146.5
	6/23/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/14/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/6/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/20/2023	ND<1	146.5

Rank Sum = 1758

Rank Mean = 146.5

GWC-23	12/11/2017	ND<1	146.5
	6/18/2018	ND<1	146.5
	12/18/2018	ND<1	146.5
	6/12/2019	ND<1	146.5
	12/11/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/16/2020	ND<1	146.5
	6/14/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/6/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/21/2023	ND<1	146.5

Rank Sum = 1758

Rank Mean = 146.5

GWC-23A	12/11/2017	ND<1	146.5
	6/18/2018	ND<1	146.5
	12/18/2018	ND<1	146.5
	6/12/2019	ND<1	146.5
	12/11/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/16/2020	ND<1	146.5
	6/14/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/6/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/21/2023	ND<1	146.5

Rank Sum = 1758

Rank Mean = 146.5

GWC-10	12/12/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/10/2019	ND<1	146.5
	12/12/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/15/2020	ND<1	146.5

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

6/15/2021	ND<1	146.5
12/15/2021	ND<1	146.5
6/7/2022	ND<1	146.5
12/14/2022	ND<1	146.5
6/21/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-10A	12/12/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/10/2019	ND<1	146.5
	12/12/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/15/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/15/2021	ND<1	146.5
	6/7/2022	ND<1	146.5
	12/14/2022	ND<1	146.5
	6/21/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-13	12/12/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/19/2018	ND<1	146.5
	6/12/2019	ND<1	146.5
	12/11/2019	ND<1	146.5
	6/23/2020	ND<1	146.5
	12/15/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/15/2021	ND<1	146.5
	6/8/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/20/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-14A	12/12/2017	62	390
	6/20/2018	71	394
	12/19/2018	53	386
	6/11/2019	46	384
	12/10/2019	65	392
	6/24/2020	62	391
	12/15/2020	69	393
	6/15/2021	59	389
	12/14/2021	77	395
	6/9/2022	54	387
	12/13/2022	86	396
	6/20/2023	54	388

Rank Sum = 4685  
Rank Mean = 390.417

GWC-14R	12/12/2017	20	347
	6/20/2018	24	359
	12/19/2018	17	343
	6/12/2019	21	350

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

12/10/2019	19	346
6/23/2020	26	367
12/17/2020	28	372
6/16/2021	26	368
12/14/2021	24	360
6/9/2022	21	351
12/13/2022	22	354
6/21/2023	20	348

Rank Sum = 4265  
Rank Mean = 355.417

GWC-17	12/12/2017	17	344
	6/19/2018	4.7	316
	12/19/2018	8.7	330
	6/12/2019	ND<1	146.5
	12/10/2019	15	342
	6/23/2020	ND<1	146.5
	12/15/2020	22	355
	6/14/2021	2.2	297
	12/14/2021	7.6	324
	6/9/2022	5.4	320
	12/14/2022	2.1	294
	6/20/2023	ND<1	146.5

Rank Sum = 3361.5  
Rank Mean = 280.125

GWC-3A	12/12/2017	ND<1	146.5
	6/20/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/11/2019	ND<1	146.5
	12/10/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/16/2020	ND<1	146.5
	6/14/2021	ND<1	146.5
	12/15/2021	ND<1	146.5
	6/7/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/19/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-4A	12/12/2017	ND<1	146.5
	6/20/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/11/2019	ND<1	146.5
	12/11/2019	ND<1	146.5
	6/23/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/17/2021	ND<1	146.5
	12/15/2021	ND<1	146.5
	6/8/2022	ND<1	146.5
	12/14/2022	ND<1	146.5
	6/21/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-5	12/12/2017	ND<1	146.5
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Forsyth County - Hightower Road Landfill - Phase II-IV cis-1,2-Dichloroethene

6/21/2018	ND<1	146.5
12/18/2018	ND<1	146.5
6/12/2019	ND<1	146.5
12/10/2019	ND<1	146.5
6/23/2020	ND<1	146.5
12/17/2020	ND<1	146.5
6/15/2021	ND<1	146.5
12/13/2021	ND<1	146.5
6/8/2022	ND<1	146.5
12/12/2022	ND<1	146.5
6/20/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-7	12/12/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/18/2018	ND<1	146.5
	6/12/2019	ND<1	146.5
	12/11/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/8/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/20/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-8	12/12/2017	7.6	325
	6/20/2018	2.6	302
	12/19/2018	4.3	314
	6/12/2019	ND<1	146.5
	12/11/2019	2.8	304
	6/23/2020	ND<1	146.5
	12/16/2020	ND<1	146.5
	6/16/2021	ND<1	146.5
	12/15/2021	ND<1	146.5
	6/9/2022	ND<1	146.5
	12/13/2022	3.4	310
	6/21/2023	2.7	303

Rank Sum = 2737  
Rank Mean = 228.083

GWC-8A	12/12/2017	37	383
	6/20/2018	32	379
	12/19/2018	31	377
	6/12/2019	22	356
	12/11/2019	33	381
	6/23/2020	23	357
	12/15/2020	31	378
	6/16/2021	24	361
	12/15/2021	24	362
	6/9/2022	27	370
	12/13/2022	35	382
	6/21/2023	23	358

Rank Sum = 4444

Forsyth County - Hightower Road Landfill - Phase II-IV cis-1,2-Dichloroethene

Rank Mean = 370.333

GWC-8R	12/12/2017	21	352
	6/20/2018	24	363
	12/19/2018	18	345
	6/12/2019	21	353
	12/11/2019	24	364
	6/23/2020	27	371
	12/15/2020	30	375
	6/16/2021	32	380
	12/15/2021	24	365
	6/9/2022	24	366
	12/13/2022	29	374
	6/21/2023	28	373

Rank Sum = 4381  
Rank Mean = 365.083

GWC-16A	12/13/2017	2.9	305
	6/21/2018	ND<1	146.5
	12/19/2018	2.5	301
	6/13/2019	ND<1	146.5
	12/11/2019	2.1	295
	6/23/2020	2.2	298
	12/17/2020	2.3	300
	6/16/2021	2.1	296
	12/16/2021	ND<1	146.5
	6/9/2022	ND<1	146.5
	12/14/2022	ND<1	146.5
	6/20/2023	9	331

Rank Sum = 2858.5  
Rank Mean = 238.208

GWA-1A	12/13/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/18/2018	ND<1	146.5
	6/10/2019	ND<1	146.5
	12/9/2019	ND<1	146.5
	6/23/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/17/2021	ND<1	146.5
	12/16/2021	ND<1	146.5
	6/8/2022	ND<1	146.5
	12/14/2022	ND<1	146.5
	6/22/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-11	12/13/2017	ND<1	146.5
	6/19/2018	ND<1	146.5
	12/19/2018	ND<1	146.5
	6/12/2019	ND<1	146.5
	12/12/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/15/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/7/2022	ND<1	146.5

Forsyth County - Hightower Road Landfill - Phase II-IV				cis-1,2-Dichloroethene			
	12/12/2022	ND<1	146.5				
	6/20/2023	ND<1	146.5				
Rank Sum = 1758				Rank Mean = 146.5			
<hr/>							
GWC-12	12/13/2017	ND<1	146.5				
	6/19/2018	ND<1	146.5				
	12/19/2018	ND<1	146.5				
	6/11/2019	ND<1	146.5				
	12/9/2019	ND<1	146.5				
	6/24/2020	ND<1	146.5				
	12/15/2020	ND<1	146.5				
	6/15/2021	ND<1	146.5				
	12/13/2021	ND<1	146.5				
	6/7/2022	ND<1	146.5				
	12/12/2022	ND<1	146.5				
	6/20/2023	ND<1	146.5				
Rank Sum = 1758				Rank Mean = 146.5			
<hr/>							
GWC-12A	12/13/2017	ND<1	146.5				
	6/19/2018	ND<1	146.5				
	12/19/2018	ND<1	146.5				
	6/11/2019	ND<1	146.5				
	12/9/2019	ND<1	146.5				
	6/24/2020	ND<1	146.5				
	12/15/2020	ND<1	146.5				
	6/15/2021	ND<1	146.5				
	12/13/2021	ND<1	146.5				
	6/7/2022	ND<1	146.5				
	12/12/2022	ND<1	146.5				
	6/20/2023	ND<1	146.5				
Rank Sum = 1758				Rank Mean = 146.5			
<hr/>							
GWC-15	12/13/2017	11	335				
	6/19/2018	2	293				
	12/19/2018	2.9	306				
	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	146.5				
	6/22/2023	ND<1	146.5				
Rank Sum = 4009				Rank Mean = 334.083			
<hr/>							
GWC-18	12/13/2017	14	340				
	6/19/2018	7.7	326				
	12/18/2018	12	338				
	6/11/2019	14	341				
	12/9/2019	30	376				
	6/23/2020	10	333				
	12/15/2020	26	369				

Forsyth County - Hightower Road Landfill - Phase II-IV				cis-1,2-Dichloroethene			
	6/14/2021	6.2	322				
	12/14/2021	10	334				
	6/7/2022	13	339				
	12/14/2022	20	349				
	6/20/2023	11	336				
Rank Sum = 4103				Rank Mean = 341.917			
<hr/>							
GWC-19R	12/13/2017	4.7	317				
	6/19/2018	5.1	318				
	12/18/2018	2.9	307				
	6/11/2019	7.7	327				
	12/9/2019	11	337				
	6/23/2020	7.2	323				
	12/15/2020	7.9	328				
	6/14/2021	5.3	319				
	12/14/2021	7.9	329				
	6/6/2022	4	313				
	12/14/2022	9.9	332				
	6/20/2023	3	308				
Rank Sum = 3858				Rank Mean = 321.5			
<hr/>							
GWC-2	12/13/2017	ND<1	146.5				
	6/20/2018	ND<1	146.5				
	12/19/2018	ND<1	146.5				
	6/12/2019	ND<1	146.5				
	12/10/2019	ND<1	146.5				
	6/22/2020	ND<1	146.5				
	12/16/2020	ND<1	146.5				
	6/15/2021	ND<1	146.5				
	12/15/2021	ND<1	146.5				
	6/7/2022	ND<1	146.5				
	12/12/2022	ND<1	146.5				
	6/19/2023	ND<1	146.5				
Rank Sum = 1758				Rank Mean = 146.5			
<hr/>							
GWC-24	12/13/2017	ND<1	146.5				
	6/19/2018	2.2	299				
	12/19/2018	3.7	312				
	6/11/2019	4.4	315				
	12/9/2019	6.1	321				
	6/24/2020	3	309				
	12/15/2020	3.5	311				
	6/14/2021	ND<1	146.5				
	12/14/2021	ND<1	146.5				
	6/7/2022	ND<1	146.5				
	12/14/2022	ND<1	146.5				
	6/20/2023	ND<1	146.5				
Rank Sum = 2746				Rank Mean = 228.833			
<hr/>							
GWC-6	12/13/2017	ND<1	146.5				
	6/21/2018	ND<1	146.5				
	12/19/2018	ND<1	146.5				
	6/12/2019	ND<1	146.5				

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

12/10/2019	ND<1	146.5
6/24/2020	ND<1	146.5
12/17/2020	ND<1	146.5
6/15/2021	ND<1	146.5
12/13/2021	ND<1	146.5
6/8/2022	ND<1	146.5
12/14/2022	ND<1	146.5
6/20/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-9	12/13/2017	ND<1	146.5
	6/20/2018	ND<1	146.5
	12/18/2018	ND<1	146.5
	6/12/2019	ND<1	146.5
	12/12/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/13/2021	ND<1	146.5
	6/7/2022	ND<1	146.5
	12/14/2022	ND<1	146.5
	6/20/2023	ND<1	146.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-14	6/20/2018	ND<1	146.5
	6/11/2019	ND<1	146.5
	12/10/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/15/2021	ND<1	146.5
	12/15/2021	ND<1	146.5
	6/9/2022	ND<1	146.5
	12/13/2022	ND<1	146.5
	6/21/2023	ND<1	146.5

Rank Sum = 1465  
Rank Mean = 146.5

GWC-4	6/20/2018	ND<1	146.5
	6/23/2020	ND<1	146.5
	12/17/2020	ND<1	146.5
	6/16/2021	ND<1	146.5
	12/14/2021	ND<1	146.5
	6/8/2022	ND<1	146.5
	12/12/2022	ND<1	146.5
	6/20/2023	ND<1	146.5

Rank Sum = 1172  
Rank Mean = 146.5

GWC-3	6/21/2018	ND<1	146.5
	12/17/2018	ND<1	146.5
	6/11/2019	ND<1	146.5
	12/10/2019	ND<1	146.5
	6/24/2020	ND<1	146.5
	12/16/2020	ND<1	146.5
	6/15/2021	ND<1	146.5

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

12/15/2021	ND<1	146.5
6/7/2022	ND<1	146.5
12/12/2022	ND<1	146.5
6/19/2023	ND<1	146.5

Rank Sum = 1611.5  
Rank Mean = 146.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 216.334

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 350.758

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**216.334 > 46.1942 indicating a significant group difference at 5% significance level**

**350.758 > 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 146.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	146.5	0	94.9268
GWC-22	146.5	0	94.9268
GWC-23	146.5	0	94.9268
GWC-23A	146.5	0	94.9268
GWC-10	146.5	0	94.9268
GWC-10A	146.5	0	94.9268
GWC-13	146.5	0	94.9268
<b>GWC-14A</b>	<b>390.417</b>	<b>243.917</b>	<b>94.9268</b>
<b>GWC-14R</b>	<b>355.417</b>	<b>208.917</b>	<b>94.9268</b>
<b>GWC-17</b>	<b>280.125</b>	<b>133.625</b>	<b>94.9268</b>
GWC-3A	146.5	0	94.9268
GWC-4A	146.5	0	94.9268
GWC-5	146.5	0	94.9268
GWC-7	146.5	0	94.9268
GWC-8	228.083	81.5833	94.9268
<b>GWC-8A</b>	<b>370.333</b>	<b>223.833</b>	<b>94.9268</b>
<b>GWC-8R</b>	<b>365.083</b>	<b>218.583</b>	<b>94.9268</b>
GWC-16A	238.208	91.7083	94.9268
GWA-1A	146.5	0	94.9268
GWC-11	146.5	0	94.9268
GWC-12	146.5	0	94.9268
GWC-12A	146.5	0	94.9268
<b>GWC-15</b>	<b>334.083</b>	<b>187.583</b>	<b>94.9268</b>
<b>GWC-18</b>	<b>341.917</b>	<b>195.417</b>	<b>94.9268</b>
<b>GWC-19R</b>	<b>321.5</b>	<b>175</b>	<b>94.9268</b>
GWC-2	146.5	0	94.9268
GWC-24	228.833	82.3333	94.9268
GWC-6	146.5	0	94.9268
GWC-9	146.5	0	94.9268
GWC-14	146.5	0	101.138
GWC-4	146.5	0	109.797
GWC-3	146.5	0	97.7988

**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 146.5

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	146.5	0	126.098
GWC-22	146.5	0	126.098
GWC-23	146.5	0	126.098
GWC-23A	146.5	0	126.098
GWC-10	146.5	0	126.098
GWC-10A	146.5	0	126.098
GWC-13	146.5	0	126.098
<b>GWC-14A</b>	<b>390.417</b>	<b>243.917</b>	<b>126.098</b>
<b>GWC-14R</b>	<b>355.417</b>	<b>208.917</b>	<b>126.098</b>
<b>GWC-17</b>	<b>280.125</b>	<b>133.625</b>	<b>126.098</b>
GWC-3A	146.5	0	126.098
GWC-4A	146.5	0	126.098
GWC-5	146.5	0	126.098
GWC-7	146.5	0	126.098
GWC-8	228.083	81.5833	126.098
<b>GWC-8A</b>	<b>370.333</b>	<b>223.833</b>	<b>126.098</b>
<b>GWC-8R</b>	<b>365.083</b>	<b>218.583</b>	<b>126.098</b>
GWC-16A	238.208	91.7083	126.098
GWA-1A	146.5	0	126.098
GWC-11	146.5	0	126.098
GWC-12	146.5	0	126.098
GWC-12A	146.5	0	126.098
<b>GWC-15</b>	<b>334.083</b>	<b>187.583</b>	<b>126.098</b>
<b>GWC-18</b>	<b>341.917</b>	<b>195.417</b>	<b>126.098</b>
<b>GWC-19R</b>	<b>321.5</b>	<b>175</b>	<b>126.098</b>
GWC-2	146.5	0	126.098
GWC-24	228.833	82.3333	126.098
GWC-6	146.5	0	126.098
GWC-9	146.5	0	126.098
GWC-14	146.5	0	134.348
GWC-4	146.5	0	145.851
GWC-3	146.5	0	129.913

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Tetrachloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	12/11/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/10/2019	ND<1	188
	12/9/2019	ND<1	188
	6/23/2020	ND<1	188
	12/17/2020	ND<1	188
	6/15/2021	ND<1	188
	12/13/2021	ND<1	188
	6/8/2022	ND<1	188
	12/12/2022	ND<1	188
	12/15/2022	ND<1	188
	6/22/2023	ND<1	188

Rank Sum = 2444

Rank Mean = 188

GWA-2	12/11/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
	12/11/2019	ND<1	188
	6/22/2020	ND<1	188
	12/17/2020	ND<1	188
	6/15/2021	ND<1	188
	12/13/2021	ND<1	188
	6/8/2022	ND<1	188
	12/12/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2256

Rank Mean = 188

Background Rank Sum = 4700

Background Rank Mean = 188

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/11/2017	ND<1	188
	6/18/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
	12/10/2019	ND<1	188
	6/22/2020	ND<1	188
	12/16/2020	ND<1	188
	6/14/2021	ND<1	188
	12/14/2021	ND<1	188
	6/6/2022	ND<1	188

Forsyth County - Hightower Road Landfill - Phase II-IV			Tetrachloroethene
	12/13/2022	ND<1	188
	6/20/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-22	12/11/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/23/2020	ND<1	188
	12/17/2020	ND<1	188
	6/14/2021	ND<1	188
	12/13/2021	ND<1	188
	6/6/2022	ND<1	188
	12/12/2022	ND<1	188
	6/20/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-23	12/11/2017	ND<1	188
	6/18/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/24/2020	ND<1	188
	12/16/2020	ND<1	188
	6/14/2021	ND<1	188
	12/13/2021	ND<1	188
	6/6/2022	ND<1	188
	12/12/2022	ND<1	188
	6/21/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-23A	12/11/2017	ND<1	188
	6/18/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/24/2020	ND<1	188
	12/16/2020	ND<1	188
	6/14/2021	ND<1	188
	12/13/2021	ND<1	188
	6/6/2022	ND<1	188
	12/12/2022	ND<1	188
	6/21/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-10	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/10/2019	ND<1	188
	12/12/2019	ND<1	188
	6/24/2020	ND<1	188
	12/15/2020	ND<1	188

Forsyth County - Hightower Road Landfill - Phase II-IV			Tetrachloroethene
	6/15/2021	ND<1	188
	12/15/2021	ND<1	188
	6/7/2022	ND<1	188
	12/14/2022	ND<1	188
	6/21/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-10A	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/10/2019	ND<1	188
	12/12/2019	ND<1	188
	6/24/2020	ND<1	188
	12/15/2020	ND<1	188
	6/15/2021	ND<1	188
	12/15/2021	ND<1	188
	6/7/2022	ND<1	188
	12/14/2022	ND<1	188
	6/21/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-13	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/23/2020	ND<1	188
	12/15/2020	ND<1	188
	6/15/2021	ND<1	188
	12/15/2021	ND<1	188
	6/8/2022	ND<1	188
	12/12/2022	ND<1	188
	6/20/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-14A	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
	12/10/2019	ND<1	188
	6/24/2020	ND<1	188
	12/15/2020	ND<1	188
	6/15/2021	ND<1	188
	12/14/2021	ND<1	188
	6/9/2022	ND<1	188
	12/13/2022	ND<1	188
	6/20/2023	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
<hr/>			
GWC-14R	12/12/2017	2	376
	6/20/2018	2	377
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

12/10/2019	ND<1	188
6/23/2020	ND<1	188
12/17/2020	ND<1	188
6/16/2021	ND<1	188
12/14/2021	ND<1	188
6/9/2022	ND<1	188
12/13/2022	ND<1	188
6/21/2023	ND<1	188

Rank Sum = 2633  
Rank Mean = 219.417

GWC-17	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
	12/10/2019	ND<1	188
	6/23/2020	ND<1	188
	12/15/2020	ND<1	188
	6/14/2021	ND<1	188
	12/14/2021	ND<1	188
	6/9/2022	ND<1	188
	12/14/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-3A	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
	12/10/2019	ND<1	188
	6/24/2020	ND<1	188
	12/16/2020	ND<1	188
	6/14/2021	ND<1	188
	12/15/2021	ND<1	188
	6/7/2022	ND<1	188
	12/12/2022	ND<1	188
	6/19/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-4A	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
	12/11/2019	ND<1	188
	6/23/2020	ND<1	188
	12/17/2020	ND<1	188
	6/17/2021	ND<1	188
	12/15/2021	ND<1	188
	6/8/2022	ND<1	188
	12/14/2022	ND<1	188
	6/21/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-5	12/12/2017	ND<1	188
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Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

6/21/2018	ND<1	188
12/18/2018	ND<1	188
6/12/2019	ND<1	188
12/10/2019	ND<1	188
6/23/2020	ND<1	188
12/17/2020	ND<1	188
6/15/2021	ND<1	188
12/13/2021	ND<1	188
6/8/2022	ND<1	188
12/12/2022	ND<1	188
6/20/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-7	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/24/2020	ND<1	188
	12/17/2020	ND<1	188
	6/15/2021	ND<1	188
	12/13/2021	ND<1	188
	6/8/2022	ND<1	188
	12/12/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-8	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/23/2020	ND<1	188
	12/16/2020	ND<1	188
	6/16/2021	ND<1	188
	12/15/2021	ND<1	188
	6/9/2022	ND<1	188
	12/13/2022	ND<1	188
	6/21/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-8A	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/23/2020	ND<1	188
	12/15/2020	ND<1	188
	6/16/2021	ND<1	188
	12/15/2021	ND<1	188
	6/9/2022	ND<1	188
	12/13/2022	ND<1	188
	6/21/2023	ND<1	188

Rank Sum = 2256

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

Rank Mean = 188

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GWC-8R	12/12/2017	ND<1	188
	6/20/2018	2	378
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
	12/11/2019	ND<1	188
	6/23/2020	ND<1	188
	12/15/2020	ND<1	188
	6/16/2021	ND<1	188
	12/15/2021	ND<1	188
	6/9/2022	ND<1	188
	12/13/2022	ND<1	188
	6/21/2023	ND<1	188

Rank Sum = 2446

Rank Mean = 203.833

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GWC-16A	12/13/2017	ND<1	188
	6/21/2018	ND<1	188
	12/19/2018	ND<1	188
	6/13/2019	ND<1	188
	12/11/2019	ND<1	188
	6/23/2020	ND<1	188
	12/17/2020	ND<1	188
	6/16/2021	ND<1	188
	12/16/2021	ND<1	188
	6/9/2022	ND<1	188
	12/14/2022	ND<1	188
	6/20/2023	3.2	383

Rank Sum = 2451

Rank Mean = 204.25

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GWA-1A	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/10/2019	ND<1	188
	12/9/2019	ND<1	188
	6/23/2020	ND<1	188
	12/17/2020	ND<1	188
	6/17/2021	ND<1	188
	12/16/2021	ND<1	188
	6/8/2022	ND<1	188
	12/14/2022	ND<1	188
	6/22/2023	ND<1	188

Rank Sum = 2256

Rank Mean = 188

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GWC-11	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
	12/12/2019	ND<1	188
	6/24/2020	ND<1	188
	12/15/2020	ND<1	188
	6/15/2021	ND<1	188
	12/13/2021	ND<1	188
	6/7/2022	ND<1	188

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

12/12/2022 ND<1 188

6/20/2023 ND<1 188

Rank Sum = 2256

Rank Mean = 188

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GWC-12	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
	12/9/2019	ND<1	188
	6/24/2020	ND<1	188
	12/15/2020	ND<1	188
	6/15/2021	ND<1	188
	12/13/2021	ND<1	188
	6/7/2022	ND<1	188
	12/12/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2256

Rank Mean = 188

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GWC-12A	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
	12/9/2019	ND<1	188
	6/24/2020	ND<1	188
	12/15/2020	ND<1	188
	6/15/2021	ND<1	188
	12/13/2021	ND<1	188
	6/7/2022	ND<1	188
	12/12/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2256

Rank Mean = 188

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GWC-15	12/13/2017	2.7	380
	6/19/2018	5	388
	12/19/2018	9.7	395
	6/11/2019	50	402
	12/10/2019	31	399
	6/25/2020	48	401
	12/17/2020	19	397
	6/16/2021	29	398
	12/14/2021	12	396
	6/9/2022	42	400
	12/15/2022	ND<1	188
	6/22/2023	ND<1	188

Rank Sum = 4332

Rank Mean = 361

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GWC-18	12/13/2017	6.5	392
	6/19/2018	4.6	387
	12/18/2018	7	393
	6/11/2019	3.9	386
	12/9/2019	7.4	394
	6/23/2020	5.7	390
	12/15/2020	6.4	391

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

6/14/2021	3.1	382
12/14/2021	3.4	384
6/7/2022	5.2	389
12/14/2022	3.8	385
6/20/2023	2.9	381

Rank Sum = 4654  
Rank Mean = 387.833

GWC-19R	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	2	379
	6/11/2019	ND<1	188
	12/9/2019	ND<1	188
	6/23/2020	ND<1	188
	12/15/2020	ND<1	188
	6/14/2021	ND<1	188
	12/14/2021	ND<1	188
	6/6/2022	ND<1	188
	12/14/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2447  
Rank Mean = 203.917

GWC-2	12/13/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
	12/10/2019	ND<1	188
	6/22/2020	ND<1	188
	12/16/2020	ND<1	188
	6/15/2021	ND<1	188
	12/15/2021	ND<1	188
	6/7/2022	ND<1	188
	12/12/2022	ND<1	188
	6/19/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-24	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
	12/9/2019	ND<1	188
	6/24/2020	ND<1	188
	12/15/2020	ND<1	188
	6/14/2021	ND<1	188
	12/14/2021	ND<1	188
	6/7/2022	ND<1	188
	12/14/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-6	12/13/2017	ND<1	188
	6/21/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

12/10/2019	ND<1	188
6/24/2020	ND<1	188
12/17/2020	ND<1	188
6/15/2021	ND<1	188
12/13/2021	ND<1	188
6/8/2022	ND<1	188
12/14/2022	ND<1	188
6/20/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-9	12/13/2017	ND<1	188
	6/20/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
	12/12/2019	ND<1	188
	6/24/2020	ND<1	188
	12/17/2020	ND<1	188
	6/15/2021	ND<1	188
	12/13/2021	ND<1	188
	6/7/2022	ND<1	188
	12/14/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 2256  
Rank Mean = 188

GWC-14	6/20/2018	ND<1	188
	6/11/2019	ND<1	188
	12/10/2019	ND<1	188
	6/24/2020	ND<1	188
	12/17/2020	ND<1	188
	6/15/2021	ND<1	188
	12/15/2021	ND<1	188
	6/9/2022	ND<1	188
	12/13/2022	ND<1	188
	6/21/2023	ND<1	188

Rank Sum = 1880  
Rank Mean = 188

GWC-4	6/20/2018	ND<1	188
	6/23/2020	ND<1	188
	12/17/2020	ND<1	188
	6/16/2021	ND<1	188
	12/14/2021	ND<1	188
	6/8/2022	ND<1	188
	12/12/2022	ND<1	188
	6/20/2023	ND<1	188

Rank Sum = 1504  
Rank Mean = 188

GWC-3	6/21/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
	12/10/2019	ND<1	188
	6/24/2020	ND<1	188
	12/16/2020	ND<1	188
	6/15/2021	ND<1	188



Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

12/15/2021	ND<1	188
6/7/2022	ND<1	188
12/12/2022	ND<1	188
6/19/2023	ND<1	188

Rank Sum = 2068  
Rank Mean = 188

**Calculation Results:**

Kruskal-Wallis H Statistic = 58.2308

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 309.305

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**58.2308 > 46.1942 indicating a significant group difference at 5% significance level**

**309.305 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	188	0	94.9268
GWC-22	188	0	94.9268
GWC-23	188	0	94.9268
GWC-23A	188	0	94.9268
GWC-10	188	0	94.9268
GWC-10A	188	0	94.9268
GWC-13	188	0	94.9268
GWC-14A	188	0	94.9268
GWC-14R	219.417	31.4167	94.9268
GWC-17	188	0	94.9268
GWC-3A	188	0	94.9268
GWC-4A	188	0	94.9268
GWC-5	188	0	94.9268
GWC-7	188	0	94.9268
GWC-8	188	0	94.9268
GWC-8A	188	0	94.9268
GWC-8R	203.833	15.8333	94.9268
GWC-16A	204.25	16.25	94.9268
GWA-1A	188	0	94.9268
GWC-11	188	0	94.9268
GWC-12	188	0	94.9268
GWC-12A	188	0	94.9268
<b>GWC-15</b>	<b>361</b>	<b>173</b>	<b>94.9268</b>
<b>GWC-18</b>	<b>387.833</b>	<b>199.833</b>	<b>94.9268</b>
GWC-19R	203.917	15.9167	94.9268
GWC-2	188	0	94.9268
GWC-24	188	0	94.9268
GWC-6	188	0	94.9268
GWC-9	188	0	94.9268
GWC-14	188	0	101.138
GWC-4	188	0	109.797
GWC-3	188	0	97.7988

**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 188

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	188	0	126.098
GWC-22	188	0	126.098
GWC-23	188	0	126.098
GWC-23A	188	0	126.098
GWC-10	188	0	126.098
GWC-10A	188	0	126.098
GWC-13	188	0	126.098
GWC-14A	188	0	126.098
GWC-14R	219.417	31.4167	126.098
GWC-17	188	0	126.098
GWC-3A	188	0	126.098
GWC-4A	188	0	126.098
GWC-5	188	0	126.098
GWC-7	188	0	126.098
GWC-8	188	0	126.098
GWC-8A	188	0	126.098
GWC-8R	203.833	15.8333	126.098
GWC-16A	204.25	16.25	126.098
GWA-1A	188	0	126.098
GWC-11	188	0	126.098
GWC-12	188	0	126.098
GWC-12A	188	0	126.098
<b>GWC-15</b>	<b>361</b>	<b>173</b>	<b>126.098</b>
<b>GWC-18</b>	<b>387.833</b>	<b>199.833</b>	<b>126.098</b>
GWC-19R	203.917	15.9167	126.098
GWC-2	188	0	126.098
GWC-24	188	0	126.098
GWC-6	188	0	126.098
GWC-9	188	0	126.098
GWC-14	188	0	134.348
GWC-4	188	0	145.851
GWC-3	188	0	129.913

**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	12/11/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/10/2019	ND<1	186
	12/9/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
	6/15/2021	ND<1	186
	12/13/2021	ND<1	186
	6/8/2022	ND<1	186
	12/12/2022	ND<1	186
	12/15/2022	ND<1	186
	6/22/2023	ND<1	186

Rank Sum = 2418  
 Rank Mean = 186

GWA-2	12/11/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/11/2019	ND<1	186
	6/22/2020	ND<1	186
	12/17/2020	ND<1	186
	6/15/2021	ND<1	186
	12/13/2021	ND<1	186
	6/8/2022	ND<1	186
	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
 Rank Mean = 186

Background Rank Sum = 4650  
 Background Rank Mean = 186

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/11/2017	ND<1	186
	6/18/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/22/2020	ND<1	186
	12/16/2020	ND<1	186
	6/14/2021	ND<1	186
	12/14/2021	ND<1	186
	6/6/2022	ND<1	186

	12/13/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
 Rank Mean = 186

GWC-22	12/11/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
	6/14/2021	ND<1	186
	12/13/2021	ND<1	186
	6/6/2022	ND<1	186
	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
 Rank Mean = 186

GWC-23	12/11/2017	ND<1	186
	6/18/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186
	6/14/2021	ND<1	186
	12/13/2021	ND<1	186
	6/6/2022	ND<1	186
	12/12/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 2232  
 Rank Mean = 186

GWC-23A	12/11/2017	ND<1	186
	6/18/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186
	6/14/2021	ND<1	186
	12/13/2021	ND<1	186
	6/6/2022	ND<1	186
	12/12/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 2232  
 Rank Mean = 186

GWC-10	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/10/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

6/15/2021	ND<1	186
12/15/2021	ND<1	186
6/7/2022	ND<1	186
12/14/2022	ND<1	186
6/21/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-10A	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/17/2018	ND<1	186
	6/10/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
	6/15/2021	ND<1	186
	12/15/2021	ND<1	186
	6/7/2022	ND<1	186
	12/14/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-13	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
	6/15/2021	ND<1	186
	12/15/2021	ND<1	186
	6/8/2022	ND<1	186
	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-14A	12/12/2017	3.8	386
	6/20/2018	2.1	372
	12/19/2018	2.2	375
	6/11/2019	ND<1	186
	12/10/2019	3.1	383
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
	6/15/2021	ND<1	186
	12/14/2021	ND<1	186
	6/9/2022	ND<1	186
	12/13/2022	3.3	384
	6/20/2023	ND<1	186

Rank Sum = 3202  
Rank Mean = 266.833

GWC-14R	12/12/2017	4.8	392
	6/20/2018	5.2	394
	12/19/2018	4.9	393
	6/12/2019	4.7	391

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

12/10/2019	4.3	389
6/23/2020	4.3	390
12/17/2020	3.9	387
6/16/2021	3.9	388
12/14/2021	2.8	380
6/9/2022	2.8	381
12/13/2022	3	382
6/21/2023	2.3	376

Rank Sum = 4643  
Rank Mean = 386.917

GWC-17	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/10/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
	6/14/2021	ND<1	186
	12/14/2021	ND<1	186
	6/9/2022	ND<1	186
	12/14/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-3A	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186
	6/14/2021	ND<1	186
	12/15/2021	ND<1	186
	6/7/2022	ND<1	186
	12/12/2022	ND<1	186
	6/19/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-4A	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
	6/17/2021	ND<1	186
	12/15/2021	ND<1	186
	6/8/2022	ND<1	186
	12/14/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-5	12/12/2017	ND<1	186
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Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

6/21/2018	ND<1	186
12/18/2018	ND<1	186
6/12/2019	ND<1	186
12/10/2019	ND<1	186
6/23/2020	ND<1	186
12/17/2020	ND<1	186
6/15/2021	ND<1	186
12/13/2021	ND<1	186
6/8/2022	ND<1	186
12/12/2022	ND<1	186
6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-7	12/12/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/24/2020	ND<1	186
	12/17/2020	ND<1	186
	6/15/2021	ND<1	186
	12/13/2021	ND<1	186
	6/8/2022	ND<1	186
	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-8	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/16/2020	ND<1	186
	6/16/2021	ND<1	186
	12/15/2021	ND<1	186
	6/9/2022	ND<1	186
	12/13/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-8A	12/12/2017	ND<1	186
	6/20/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
	6/16/2021	ND<1	186
	12/15/2021	ND<1	186
	6/9/2022	ND<1	186
	12/13/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 2232

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

Rank Mean = 186

GWC-8R	12/12/2017	ND<1	186
	6/20/2018	5.3	395
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
	6/16/2021	2.1	373
	12/15/2021	ND<1	186
	6/9/2022	ND<1	186
	12/13/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 2628  
Rank Mean = 219

GWC-16A	12/13/2017	ND<1	186
	6/21/2018	ND<1	186
	12/19/2018	ND<1	186
	6/13/2019	ND<1	186
	12/11/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
	6/16/2021	ND<1	186
	12/16/2021	ND<1	186
	6/9/2022	ND<1	186
	12/14/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWA-1A	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/10/2019	ND<1	186
	12/9/2019	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
	6/17/2021	ND<1	186
	12/16/2021	ND<1	186
	6/8/2022	ND<1	186
	12/14/2022	ND<1	186
	6/22/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-11	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
	6/15/2021	ND<1	186
	12/13/2021	ND<1	186
	6/7/2022	ND<1	186

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-12	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
	6/15/2021	ND<1	186
	12/13/2021	ND<1	186
	6/7/2022	ND<1	186
	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-12A	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
	6/15/2021	ND<1	186
	12/13/2021	ND<1	186
	6/7/2022	ND<1	186
	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-15	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	3.7	385
	6/11/2019	70	400
	12/10/2019	55	398
	6/25/2020	90	402
	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
	6/22/2023	ND<1	186

Rank Sum = 3922  
Rank Mean = 326.833

GWC-18	12/13/2017	2.3	377
	6/19/2018	ND<1	186
	12/18/2018	2.1	374
	6/11/2019	ND<1	186
	12/9/2019	2.6	379
	6/23/2020	ND<1	186
	12/15/2020	2.4	378

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

	6/14/2021	ND<1	186
	12/14/2021	ND<1	186
	6/7/2022	ND<1	186
	12/14/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2996  
Rank Mean = 249.667

GWC-19R	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/18/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/23/2020	ND<1	186
	12/15/2020	ND<1	186
	6/14/2021	ND<1	186
	12/14/2021	ND<1	186
	6/6/2022	ND<1	186
	12/14/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-2	12/13/2017	ND<1	186
	6/20/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186
	12/10/2019	ND<1	186
	6/22/2020	ND<1	186
	12/16/2020	ND<1	186
	6/15/2021	ND<1	186
	12/15/2021	ND<1	186
	6/7/2022	ND<1	186
	12/12/2022	ND<1	186
	6/19/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-24	12/13/2017	ND<1	186
	6/19/2018	ND<1	186
	12/19/2018	ND<1	186
	6/11/2019	ND<1	186
	12/9/2019	ND<1	186
	6/24/2020	ND<1	186
	12/15/2020	ND<1	186
	6/14/2021	ND<1	186
	12/14/2021	ND<1	186
	6/7/2022	ND<1	186
	12/14/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-6	12/13/2017	ND<1	186
	6/21/2018	ND<1	186
	12/19/2018	ND<1	186
	6/12/2019	ND<1	186

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

12/10/2019	ND<1	186
6/24/2020	ND<1	186
12/17/2020	ND<1	186
6/15/2021	ND<1	186
12/13/2021	ND<1	186
6/8/2022	ND<1	186
12/14/2022	ND<1	186
6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-9	12/13/2017	ND<1	186
	6/20/2018	ND<1	186
	12/18/2018	ND<1	186
	6/12/2019	ND<1	186
	12/12/2019	ND<1	186
	6/24/2020	ND<1	186
	12/17/2020	ND<1	186
	6/15/2021	ND<1	186
	12/13/2021	ND<1	186
	6/7/2022	ND<1	186
	12/14/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 2232  
Rank Mean = 186

GWC-14	6/20/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/24/2020	ND<1	186
	12/17/2020	ND<1	186
	6/15/2021	ND<1	186
	12/15/2021	ND<1	186
	6/9/2022	ND<1	186
	12/13/2022	ND<1	186
	6/21/2023	ND<1	186

Rank Sum = 1860  
Rank Mean = 186

GWC-4	6/20/2018	ND<1	186
	6/23/2020	ND<1	186
	12/17/2020	ND<1	186
	6/16/2021	ND<1	186
	12/14/2021	ND<1	186
	6/8/2022	ND<1	186
	12/12/2022	ND<1	186
	6/20/2023	ND<1	186

Rank Sum = 1488  
Rank Mean = 186

GWC-3	6/21/2018	ND<1	186
	12/17/2018	ND<1	186
	6/11/2019	ND<1	186
	12/10/2019	ND<1	186
	6/24/2020	ND<1	186
	12/16/2020	ND<1	186
	6/15/2021	ND<1	186

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

12/15/2021	ND<1	186
6/7/2022	ND<1	186
12/12/2022	ND<1	186
6/19/2023	ND<1	186

Rank Sum = 2046  
Rank Mean = 186

**Calculation Results:**

Kruskal-Wallis H Statistic = 56.7353

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 265.165

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**56.7353 > 46.1942 indicating a significant group difference at 5% significance level**

**265.165 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 186

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	186	0	94.9268
GWC-22	186	0	94.9268
GWC-23	186	0	94.9268
GWC-23A	186	0	94.9268
GWC-10	186	0	94.9268
GWC-10A	186	0	94.9268
GWC-13	186	0	94.9268
GWC-14A	266.833	80.8333	94.9268
<b>GWC-14R</b>	<b>386.917</b>	<b>200.917</b>	<b>94.9268</b>
GWC-17	186	0	94.9268
GWC-3A	186	0	94.9268
GWC-4A	186	0	94.9268
GWC-5	186	0	94.9268
GWC-7	186	0	94.9268
GWC-8	186	0	94.9268
GWC-8A	186	0	94.9268
GWC-8R	219	33	94.9268
GWC-16A	186	0	94.9268
GWA-1A	186	0	94.9268
GWC-11	186	0	94.9268
GWC-12	186	0	94.9268
GWC-12A	186	0	94.9268
<b>GWC-15</b>	<b>326.833</b>	<b>140.833</b>	<b>94.9268</b>
GWC-18	249.667	63.6667	94.9268
GWC-19R	186	0	94.9268
GWC-2	186	0	94.9268
GWC-24	186	0	94.9268
GWC-6	186	0	94.9268
GWC-9	186	0	94.9268
GWC-14	186	0	101.138
GWC-4	186	0	109.797
GWC-3	186	0	97.7988

**Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 186

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	186	0	126.098
GWC-22	186	0	126.098
GWC-23	186	0	126.098
GWC-23A	186	0	126.098
GWC-10	186	0	126.098
GWC-10A	186	0	126.098
GWC-13	186	0	126.098
GWC-14A	266.833	80.8333	126.098
<b>GWC-14R</b>	<b>386.917</b>	<b>200.917</b>	<b>126.098</b>
GWC-17	186	0	126.098
GWC-3A	186	0	126.098
GWC-4A	186	0	126.098
GWC-5	186	0	126.098
GWC-7	186	0	126.098
GWC-8	186	0	126.098
GWC-8A	186	0	126.098
GWC-8R	219	33	126.098
GWC-16A	186	0	126.098
GWA-1A	186	0	126.098
GWC-11	186	0	126.098
GWC-12	186	0	126.098
GWC-12A	186	0	126.098
<b>GWC-15</b>	<b>326.833</b>	<b>140.833</b>	<b>126.098</b>
GWC-18	249.667	63.6667	126.098
GWC-19R	186	0	126.098
GWC-2	186	0	126.098
GWC-24	186	0	126.098
GWC-6	186	0	126.098
GWC-9	186	0	126.098
GWC-14	186	0	134.348
GWC-4	186	0	145.851
GWC-3	186	0	129.913

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

**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	12/11/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	12/15/2022	ND<1	195.5
	6/22/2023	ND<1	195.5

Rank Sum = 2541.5

Rank Mean = 195.5

GWA-2	12/11/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/22/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346

Rank Mean = 195.5

Background Rank Sum = 4887.5

Background Rank Mean = 195.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/11/2017	ND<1	195.5
	6/18/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/22/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/6/2022	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/13/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-22	12/11/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-23	12/11/2017	ND<1	195.5
	6/18/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-23A	12/11/2017	ND<1	195.5
	6/18/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-10	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

6/15/2021	ND<1	195.5
12/15/2021	ND<1	195.5
6/7/2022	ND<1	195.5
12/14/2022	ND<1	195.5
6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-10A	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-13	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-14A	12/12/2017	6	394
	6/20/2018	6.2	395
	12/19/2018	4.9	393
	6/11/2019	4.3	392
	12/10/2019	4	391
	6/24/2020	7.5	396
	12/15/2020	11	397
	6/15/2021	12	398
	12/14/2021	19	401
	6/9/2022	19	402
	12/13/2022	14	399
	6/20/2023	16	400

Rank Sum = 4758  
Rank Mean = 396.5

GWC-14R	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5



Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/10/2019	ND<1	195.5
6/23/2020	ND<1	195.5
12/17/2020	ND<1	195.5
6/16/2021	ND<1	195.5
12/14/2021	ND<1	195.5
6/9/2022	ND<1	195.5
12/13/2022	ND<1	195.5
6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-17	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-3A	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/19/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-4A	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/17/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-5	12/12/2017	ND<1	195.5
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Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

6/21/2018	ND<1	195.5
12/18/2018	ND<1	195.5
6/12/2019	ND<1	195.5
12/10/2019	ND<1	195.5
6/23/2020	ND<1	195.5
12/17/2020	ND<1	195.5
6/15/2021	ND<1	195.5
12/13/2021	ND<1	195.5
6/8/2022	ND<1	195.5
12/12/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-7	12/12/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-8	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-8A	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

Rank Mean = 195.5

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GWC-8R	12/12/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-16A	12/13/2017	ND<1	195.5
	6/21/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/13/2019	ND<1	195.5
	12/11/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/16/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWA-1A	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/10/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/17/2021	ND<1	195.5
	12/16/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/22/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-11	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/12/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-12	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-12A	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-15	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/25/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/15/2022	ND<1	195.5
	6/22/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

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GWC-18	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

6/14/2021	ND<1	195.5
12/14/2021	ND<1	195.5
6/7/2022	ND<1	195.5
12/14/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-19R	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/6/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-2	12/13/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/22/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/19/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-24	12/13/2017	ND<1	195.5
	6/19/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/9/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/15/2020	ND<1	195.5
	6/14/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-6	12/13/2017	ND<1	195.5
	6/21/2018	ND<1	195.5
	12/19/2018	ND<1	195.5
	6/12/2019	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/10/2019	ND<1	195.5
6/24/2020	ND<1	195.5
12/17/2020	ND<1	195.5
6/15/2021	ND<1	195.5
12/13/2021	ND<1	195.5
6/8/2022	ND<1	195.5
12/14/2022	ND<1	195.5
6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-9	12/13/2017	ND<1	195.5
	6/20/2018	ND<1	195.5
	12/18/2018	ND<1	195.5
	6/12/2019	ND<1	195.5
	12/12/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/13/2021	ND<1	195.5
	6/7/2022	ND<1	195.5
	12/14/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 2346  
Rank Mean = 195.5

GWC-14	6/20/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/15/2021	ND<1	195.5
	12/15/2021	ND<1	195.5
	6/9/2022	ND<1	195.5
	12/13/2022	ND<1	195.5
	6/21/2023	ND<1	195.5

Rank Sum = 1955  
Rank Mean = 195.5

GWC-4	6/20/2018	ND<1	195.5
	6/23/2020	ND<1	195.5
	12/17/2020	ND<1	195.5
	6/16/2021	ND<1	195.5
	12/14/2021	ND<1	195.5
	6/8/2022	ND<1	195.5
	12/12/2022	ND<1	195.5
	6/20/2023	ND<1	195.5

Rank Sum = 1564  
Rank Mean = 195.5

GWC-3	6/21/2018	ND<1	195.5
	12/17/2018	ND<1	195.5
	6/11/2019	ND<1	195.5
	12/10/2019	ND<1	195.5
	6/24/2020	ND<1	195.5
	12/16/2020	ND<1	195.5
	6/15/2021	ND<1	195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

12/15/2021	ND<1	195.5
6/7/2022	ND<1	195.5
12/12/2022	ND<1	195.5
6/19/2023	ND<1	195.5

Rank Sum = 2150.5

Rank Mean = 195.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 34.8387

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 400.878

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

34.8387 < 46.1942 indicating no significant group difference at 5% significance level

**400.878 > 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 195.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	195.5	0	94.9268
GWC-22	195.5	0	94.9268
GWC-23	195.5	0	94.9268
GWC-23A	195.5	0	94.9268
GWC-10	195.5	0	94.9268
GWC-10A	195.5	0	94.9268
GWC-13	195.5	0	94.9268
<b>GWC-14A</b>	<b>396.5</b>	<b>201</b>	<b>94.9268</b>
GWC-14R	195.5	0	94.9268
GWC-17	195.5	0	94.9268
GWC-3A	195.5	0	94.9268
GWC-4A	195.5	0	94.9268
GWC-5	195.5	0	94.9268
GWC-7	195.5	0	94.9268
GWC-8	195.5	0	94.9268
GWC-8A	195.5	0	94.9268
GWC-8R	195.5	0	94.9268
GWC-16A	195.5	0	94.9268
GWA-1A	195.5	0	94.9268
GWC-11	195.5	0	94.9268
GWC-12	195.5	0	94.9268
GWC-12A	195.5	0	94.9268
GWC-15	195.5	0	94.9268
GWC-18	195.5	0	94.9268
GWC-19R	195.5	0	94.9268
GWC-2	195.5	0	94.9268
GWC-24	195.5	0	94.9268
GWC-6	195.5	0	94.9268
GWC-9	195.5	0	94.9268
GWC-14	195.5	0	101.138
GWC-4	195.5	0	109.797
GWC-3	195.5	0	97.7988

**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 195.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	195.5	0	126.098
GWC-22	195.5	0	126.098
GWC-23	195.5	0	126.098
GWC-23A	195.5	0	126.098
GWC-10	195.5	0	126.098
GWC-10A	195.5	0	126.098
GWC-13	195.5	0	126.098
<b>GWC-14A</b>	<b>396.5</b>	<b>201</b>	<b>126.098</b>
GWC-14R	195.5	0	126.098
GWC-17	195.5	0	126.098
GWC-3A	195.5	0	126.098
GWC-4A	195.5	0	126.098
GWC-5	195.5	0	126.098
GWC-7	195.5	0	126.098
GWC-8	195.5	0	126.098
GWC-8A	195.5	0	126.098
GWC-8R	195.5	0	126.098
GWC-16A	195.5	0	126.098
GWA-1A	195.5	0	126.098
GWC-11	195.5	0	126.098
GWC-12	195.5	0	126.098
GWC-12A	195.5	0	126.098
GWC-15	195.5	0	126.098
GWC-18	195.5	0	126.098
GWC-19R	195.5	0	126.098
GWC-2	195.5	0	126.098
GWC-24	195.5	0	126.098
GWC-6	195.5	0	126.098
GWC-9	195.5	0	126.098
GWC-14	195.5	0	134.348
GWC-4	195.5	0	145.851
GWC-3	195.5	0	129.913

**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	12/12/2017	27	196
	6/20/2018	32	223
	12/18/2018	28	202
	6/11/2019	28	203
	12/10/2019	20.9	147
	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	143
	12/12/2022	ND<10	69
	12/15/2022	27.7	201
	6/22/2023	23	163

Rank Sum = 2270  
 Rank Mean = 174.615

GWA-2	12/12/2017	25	184
	6/20/2018	23	164
	12/18/2018	32	224
	6/12/2019	23	165
	12/12/2019	39.5	279
	6/23/2020	20	138
	12/18/2020	22	153
	6/16/2021	24.2	177
	12/14/2021	24.9	183
	6/9/2022	22.4	159
	12/13/2022	20.6	145
	6/21/2023	22.6	160

Rank Sum = 2131  
 Rank Mean = 177.583

Background Rank Sum = 4401  
 Background Rank Mean = 176.04

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/12/2017	ND<10	69
	6/19/2018	ND<10	69
	12/18/2018	ND<10	69
	6/12/2019	ND<10	69
	12/11/2019	22.9	162
	6/23/2020	ND<10	69
	12/17/2020	ND<10	69
	6/15/2021	ND<10	69
	12/15/2021	ND<10	69
	6/7/2022	ND<10	69

	12/14/2022	ND<10	69
	6/21/2023	ND<10	69

Rank Sum = 921  
 Rank Mean = 76.75

GWC-22	12/12/2017	ND<10	69
	6/20/2018	24	172
	12/19/2018	21	148
	6/13/2019	21	149
	12/12/2019	21.5	152
	6/24/2020	22.1	156
	12/18/2020	20.4	144
	6/15/2021	28	204
	12/14/2021	24.6	182
	6/7/2022	25.8	189
	12/13/2022	24.1	176
	6/21/2023	24.4	179

Rank Sum = 920  
 Rank Mean = 160

GWC-23	12/12/2017	ND<10	69
	6/19/2018	ND<10	69
	12/19/2018	ND<10	69
	6/13/2019	ND<10	69
	12/12/2019	ND<10	69
	6/24/2020	ND<10	69
	12/17/2020	ND<10	69
	6/15/2021	ND<10	69
	12/14/2021	ND<10	69
	6/7/2022	ND<10	69
	12/13/2022	ND<10	69
	6/22/2023	ND<10	69

Rank Sum = 828  
 Rank Mean = 69

GWC-23A	12/12/2017	ND<10	69
	6/19/2018	ND<10	69
	12/19/2018	ND<10	69
	6/13/2019	ND<10	69
	12/12/2019	ND<10	69
	6/24/2020	ND<10	69
	12/17/2020	ND<10	69
	6/15/2021	ND<10	69
	12/14/2021	ND<10	69
	6/7/2022	ND<10	69
	12/13/2022	ND<10	69
	6/22/2023	ND<10	69

Rank Sum = 828  
 Rank Mean = 69

GWA-1A	12/13/2017	33	232
	6/20/2018	30	209
	12/18/2018	32	225
	6/10/2019	41	284
	12/9/2019	30	210
	6/23/2020	30.3	213
	12/17/2020	31.9	222

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

6/17/2021	37.4	271
12/16/2021	32.3	227
6/8/2022	31.8	220
12/14/2022	34.8	247
6/22/2023	33.8	240

Rank Sum = 2800  
Rank Mean = 233.333

GWC-10	12/13/2017	48	298
	6/20/2018	ND<10	69
	12/18/2018	ND<10	69
	6/11/2019	22	154
	12/13/2019	ND<10	69
	6/25/2020	ND<10	69
	12/16/2020	ND<10	69
	6/16/2021	ND<10	69
	12/16/2021	ND<10	69
	6/8/2022	ND<10	69
	12/15/2022	ND<10	69
	6/22/2023	ND<10	69

Rank Sum = 1142  
Rank Mean = 95.1667

GWC-10A	12/13/2017	32	226
	6/20/2018	34	241
	12/18/2018	35	249
	6/11/2019	33	233
	12/13/2019	35.2	253
	6/25/2020	29.6	207
	12/16/2020	32.5	229
	6/16/2021	31.5	217
	12/16/2021	33.5	237
	6/8/2022	31.8	221
	12/15/2022	38.6	275
	6/22/2023	30.6	215

Rank Sum = 2803  
Rank Mean = 233.583

GWC-13	12/13/2017	ND<10	69
	6/20/2018	36	259
	12/20/2018	ND<10	69
	6/13/2019	ND<10	69
	12/12/2019	32.7	230
	6/24/2020	ND<10	69
	12/16/2020	ND<10	69
	6/16/2021	ND<10	69
	12/16/2021	ND<10	69
	6/9/2022	ND<10	69
	12/13/2022	ND<10	69
	6/21/2023	ND<10	69

Rank Sum = 1179  
Rank Mean = 98.25

GWC-14A	12/13/2017	180	363
	6/21/2018	190	368
	12/19/2018	180	364
	6/12/2019	170	356

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

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

Rank Sum = 4319  
Rank Mean = 359.917

GWC-17	12/13/2017	35	250
	6/20/2018	34	242
	12/20/2018	69	320
	6/13/2019	43	292
	12/11/2019	37.1	269
	6/24/2020	30.9	216
	12/16/2020	40.7	282
	6/15/2021	38.3	274
	12/15/2021	39.2	278
	6/10/2022	41.1	285
	12/15/2022	36.5	264
	6/21/2023	27.6	200

Rank Sum = 3172  
Rank Mean = 264.333

GWC-3A	12/13/2017	38	272
	6/21/2018	39	277
	12/18/2018	38	273
	6/12/2019	46	294
	12/11/2019	40.7	283
	6/25/2020	37.1	270
	12/17/2020	31.6	219
	6/15/2021	36.5	265
	12/16/2021	32.8	231
	6/8/2022	32.3	228
	12/13/2022	35.4	254
	6/20/2023	36.3	260

Rank Sum = 3126  
Rank Mean = 260.5

GWC-4A	12/13/2017	81	331
	6/21/2018	22	155
	12/18/2018	25	185
	6/12/2019	74	327
	12/12/2019	ND<10	69
	6/24/2020	29.9	208
	12/18/2020	30.5	214
	6/18/2021	35.7	256
	12/16/2021	ND<10	69
	6/8/2022	36.3	261
	12/15/2022	33	234
	6/22/2023	54.6	310

Rank Sum = 2619  
Rank Mean = 218.25

GWC-5	12/13/2017	ND<10	69
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Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

6/21/2018	ND<10	69
12/19/2018	ND<10	69
6/13/2019	ND<10	69
12/11/2019	ND<10	69
6/24/2020	ND<10	69
12/18/2020	ND<10	69
6/16/2021	ND<10	69
12/14/2021	ND<10	69
6/9/2022	ND<10	69
12/13/2022	ND<10	69
6/21/2023	ND<10	69

Rank Sum = 828  
Rank Mean = 69

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GWC-7	12/13/2017	46	295
	6/20/2018	49	300
	12/19/2018	51	303
	6/13/2019	48	299
	12/12/2019	49.9	302
	6/25/2020	36.4	262
	12/18/2020	38.8	276
	6/16/2021	36.9	266
	12/14/2021	41.8	287
	6/9/2022	36.4	263
	12/13/2022	35.6	255
	6/21/2023	34.8	248

Rank Sum = 3356  
Rank Mean = 279.667

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GWC-8	12/13/2017	23	166
	6/21/2018	ND<10	69
	6/13/2019	30	211
	12/12/2019	28.6	205
	6/24/2020	52.4	305
	12/17/2020	33	235
	6/17/2021	42.5	291
	12/16/2021	33.5	238
	6/10/2022	33.5	239
	12/14/2022	34	243
	6/22/2023	30	212

Rank Sum = 2414  
Rank Mean = 219.455

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GWC-8A	12/13/2017	42	288
	6/21/2018	51	304
	12/20/2018	55	312
	6/13/2019	33	236
	12/12/2019	56	314
	6/24/2020	43.9	293
	12/16/2020	46.8	296
	6/17/2021	52.4	306
	12/16/2021	49.7	301
	6/10/2022	39.9	280
	12/14/2022	52.7	307
	6/22/2023	36.9	267

Rank Sum = 3504  
Rank Mean = 292

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

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GWC-16A	12/14/2017	29	206
	6/21/2018	34	244
	12/20/2018	24	173
	6/13/2019	26	192
	12/12/2019	26.7	195
	6/23/2020	23.6	169
	12/17/2020	25.2	186
	6/16/2021	24.3	178
	12/16/2021	23.6	170
	6/10/2022	ND<10	69
	12/15/2022	23.6	171

Rank Sum = 1953  
Rank Mean = 177.545

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GWC-11	12/14/2017	42	289
	6/20/2018	21	150
	12/20/2018	ND<10	69
	6/13/2019	40	281
	12/13/2019	35.9	258
	6/25/2020	25.9	191
	12/16/2020	25.4	187
	6/16/2021	22.1	157
	12/14/2021	23.3	168
	6/8/2022	ND<10	69
	12/13/2022	23.2	167
	6/21/2023	ND<10	69

Rank Sum = 2055  
Rank Mean = 171.25

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GWC-12	12/14/2017	ND<10	69
	6/20/2018	ND<10	69
	12/20/2018	34	245
	6/12/2019	20	139
	12/10/2019	ND<10	69
	6/25/2020	ND<10	69
	12/22/2020	22.6	161
	6/16/2021	ND<10	69
	12/14/2021	ND<10	69
	6/8/2022	ND<10	69
	12/13/2022	ND<10	69
	6/21/2023	ND<10	69

Rank Sum = 1166  
Rank Mean = 97.1667

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GWC-12A	12/14/2017	ND<10	69
	6/20/2018	ND<10	69
	12/20/2018	ND<10	69
	6/12/2019	ND<10	69
	12/10/2019	ND<10	69
	6/25/2020	ND<10	69
	12/16/2020	ND<10	69
	6/16/2021	ND<10	69
	12/14/2021	ND<10	69
	6/8/2022	ND<10	69
	12/13/2022	ND<10	69
	6/21/2023	ND<10	69

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

Rank Sum = 828  
Rank Mean = 69

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GWC-15	12/14/2017	99	344
	6/20/2018	98	343
	12/19/2018	58	315
	6/11/2019	60	316
	12/10/2019	42.3	290
	6/25/2020	62.7	317
	12/17/2020	54.7	311
	6/16/2021	69.4	321
	12/14/2021	73.4	326
	6/9/2022	70.8	323
	12/15/2022	34.4	246
	6/22/2023	24.4	180

Rank Sum = 3632  
Rank Mean = 302.667

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GWC-18	12/14/2017	150	349
	6/20/2018	280	372
	12/19/2018	140	347
	6/12/2019	230	371
	12/10/2019	181	367
	6/24/2020	168	355
	12/16/2020	160	350
	6/15/2021	165	353
	12/15/2021	141	348
	6/8/2022	196	369
	12/15/2022	178	361
	6/21/2023	219	370

Rank Sum = 4312  
Rank Mean = 359.333

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GWC-19R	12/14/2017	120	346
	6/20/2018	81	332
	12/19/2018	160	351
	6/12/2019	97	341
	12/10/2019	89.2	338
	6/24/2020	83	334
	12/16/2020	76.5	328
	6/15/2021	82.2	333
	12/15/2021	87	336
	6/7/2022	85.6	335
	12/15/2022	180	365
	6/21/2023	97.4	342

Rank Sum = 4081  
Rank Mean = 340.083

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GWC-2	12/14/2017	ND<10	69
	6/21/2018	ND<10	69
	12/20/2018	ND<10	69
	6/13/2019	ND<10	69
	12/11/2019	ND<10	69
	6/23/2020	27.5	199
	12/17/2020	ND<10	69
	6/16/2021	ND<10	69
	12/16/2021	ND<10	69

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

6/8/2022	ND<10	69
12/13/2022	ND<10	69
6/20/2023	ND<10	69

Rank Sum = 958  
Rank Mean = 79.8333

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GWC-6	12/14/2017	ND<10	69
	6/21/2018	37	268
	12/20/2018	ND<10	69
	6/13/2019	ND<10	69
	12/11/2019	ND<10	69
	6/25/2020	ND<10	69
	12/18/2020	ND<10	69
	6/16/2021	ND<10	69
	12/14/2021	ND<10	69
	6/9/2022	ND<10	69
	12/15/2022	ND<10	69
	6/21/2023	ND<10	69

Rank Sum = 1027  
Rank Mean = 85.5833

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GWC-9	12/14/2017	54	309
	6/21/2018	73	325
	12/19/2018	53	308
	6/13/2019	80	330
	12/13/2019	67.9	319
	6/25/2020	78.5	329
	12/18/2020	90	339
	6/16/2021	64.3	318
	12/14/2021	100	345
	6/8/2022	55.7	313
	12/15/2022	87.8	337
	6/21/2023	69.6	322

Rank Sum = 3894  
Rank Mean = 324.5

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GWC-24	6/20/2018	ND<10	69
	6/12/2019	20	140
	12/10/2019	27.4	198
	6/25/2020	25.8	190
	6/15/2021	ND<10	69
	6/8/2022	ND<10	69
	12/15/2022	ND<10	69
	6/21/2023	ND<10	69

Rank Sum = 873  
Rank Mean = 109.125

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GWC-14	6/21/2018	35	251
	6/12/2019	35	252
	12/11/2019	41.2	286
	6/25/2020	ND<10	69
	12/18/2020	72.2	324
	6/16/2021	24	174
	12/16/2021	47.3	297
	6/10/2022	20.8	146
	6/22/2023	26.4	194

Rank Sum = 1993



Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

Rank Mean = 221.444

GWC-3	Date	ND<10	69
	6/21/2018	ND<10	69
	12/18/2018	ND<10	69
	6/12/2019	ND<10	69
	12/11/2019	ND<10	69
	6/25/2020	ND<10	69
	12/17/2020	ND<10	69
	6/16/2021	ND<10	69
	12/16/2021	ND<10	69
	6/8/2022	ND<10	69
	6/20/2023	ND<10	69

Rank Sum = 690

Rank Mean = 69

GWC-4	Date	20	141
	6/21/2018	20	141
	6/24/2020	25.6	188
	12/18/2020	31.5	218
	6/17/2021	24.5	181
	12/15/2021	21	151
	6/9/2022	ND<10	69
	12/13/2022	20	142
	6/21/2023	ND<10	69

Rank Sum = 1159

Rank Mean = 144.875

GWC-14R	Date	94.1	340
	6/9/2022	94.1	340

Rank Sum = 340

Rank Mean = 340

GWC-8R	Date	35.8	257
	6/9/2022	35.8	257

Rank Sum = 257

Rank Mean = 257

**Calculation Results:**

Kruskal-Wallis H Statistic = 298.836

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 314.546

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**298.836 > 46.1942 indicating a significant group difference at 5% significance level**

**314.546 > 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 176.04

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	76.75	-99.29	87.8515
GWC-22	160	-16.04	87.8515
GWC-23	69	-107.04	87.8515
GWC-23A	69	-107.04	87.8515
GWA-1A	233.333	57.2933	87.8515
GWC-10	95.1667	-80.8733	87.8515
GWC-10A	233.583	57.5433	87.8515
GWC-13	98.25	-77.79	87.8515
<b>GWC-14A</b>	<b>359.917</b>	<b>183.877</b>	<b>87.8515</b>
<b>GWC-17</b>	<b>264.333</b>	<b>88.2933</b>	<b>87.8515</b>

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

GWC-3A	260.5	84.46	87.8515
GWC-4A	218.25	42.21	87.8515
GWC-5	69	-107.04	87.8515
<b>GWC-7</b>	<b>279.667</b>	<b>103.627</b>	<b>87.8515</b>
GWC-8	219.455	43.4145	90.5094
<b>GWC-8A</b>	<b>292</b>	<b>115.96</b>	<b>87.8515</b>
GWC-16A	177.545	1.50545	90.5094
GWC-11	171.25	-4.79	87.8515
GWC-12	97.1667	-78.8733	87.8515
GWC-12A	69	-107.04	87.8515
<b>GWC-15</b>	<b>302.667</b>	<b>126.627</b>	<b>87.8515</b>
<b>GWC-18</b>	<b>359.333</b>	<b>183.293</b>	<b>87.8515</b>
<b>GWC-19R</b>	<b>340.083</b>	<b>164.043</b>	<b>87.8515</b>
GWC-2	79.8333	-96.2067	87.8515
GWC-6	85.5833	-90.4567	87.8515
<b>GWC-9</b>	<b>324.5</b>	<b>148.46</b>	<b>87.8515</b>
GWC-24	109.125	-66.915	101.613
GWC-14	221.444	45.4044	97.2427
GWC-3	69	-107.04	93.5993
GWC-4	144.875	-31.165	101.613
GWC-14R	340	163.96	255.109
GWC-8R	257	80.96	255.109

**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 176.04

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	76.75	-99.29	116.699
GWC-22	160	-16.04	116.699
GWC-23	69	-107.04	116.699
GWC-23A	69	-107.04	116.699
GWA-1A	233.333	57.2933	116.699
GWC-10	95.1667	-80.8733	116.699
GWC-10A	233.583	57.5433	116.699
GWC-13	98.25	-77.79	116.699
<b>GWC-14A</b>	<b>359.917</b>	<b>183.877</b>	<b>116.699</b>
GWC-17	264.333	88.2933	116.699
GWC-3A	260.5	84.46	116.699
GWC-4A	218.25	42.21	116.699
GWC-5	69	-107.04	116.699
GWC-7	279.667	103.627	116.699
GWC-8	219.455	43.4145	120.23
GWC-8A	292	115.96	116.699
GWC-16A	177.545	1.50545	120.23
GWC-11	171.25	-4.79	116.699
GWC-12	97.1667	-78.8733	116.699
GWC-12A	69	-107.04	116.699
<b>GWC-15</b>	<b>302.667</b>	<b>126.627</b>	<b>116.699</b>
<b>GWC-18</b>	<b>359.333</b>	<b>183.293</b>	<b>116.699</b>
<b>GWC-19R</b>	<b>340.083</b>	<b>164.043</b>	<b>116.699</b>
GWC-2	79.8333	-96.2067	116.699
GWC-6	85.5833	-90.4567	116.699
<b>GWC-9</b>	<b>324.5</b>	<b>148.46</b>	<b>116.699</b>
GWC-24	109.125	-66.915	134.98
GWC-14	221.444	45.4044	129.174
GWC-3	69	-107.04	124.335

**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	12/12/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/11/2019	ND<20	175.5
	12/10/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/9/2022	ND<20	175.5
	12/12/2022	ND<20	175.5
	12/15/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2281.5  
 Rank Mean = 175.5

GWA-2	12/12/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/23/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/9/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
 Rank Mean = 175.5

Background Rank Sum = 4387.5  
 Background Rank Mean = 175.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/12/2017	ND<20	175.5
	6/19/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/11/2019	ND<20	175.5
	6/23/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	12/15/2021	ND<20	175.5
	6/7/2022	ND<20	175.5

	12/14/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
 Rank Mean = 175.5

GWC-22	12/12/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/7/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
 Rank Mean = 175.5

GWC-23	12/12/2017	ND<20	175.5
	6/19/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/7/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2106  
 Rank Mean = 175.5

GWC-23A	12/12/2017	ND<20	175.5
	6/19/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/7/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2106  
 Rank Mean = 175.5

GWA-1A	12/13/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/10/2019	ND<20	175.5
	12/9/2019	ND<20	175.5
	6/23/2020	ND<20	175.5
	12/17/2020	ND<20	175.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

6/17/2021	ND<20	175.5
12/16/2021	ND<20	175.5
6/8/2022	ND<20	175.5
12/14/2022	ND<20	175.5
6/22/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-10	12/13/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/11/2019	ND<20	175.5
	12/13/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/15/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-10A	12/13/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/11/2019	ND<20	175.5
	12/13/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/15/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-13	12/13/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/9/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-14A	12/13/2017	280	366
	6/21/2018	310	371
	12/19/2018	290	367
	6/12/2019	330	372

Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

12/11/2019	228	364
6/24/2020	301	369
12/16/2020	298	368
6/16/2021	306	370
12/15/2021	192	361
6/10/2022	252	365
12/14/2022	192	362
6/21/2023	226	363

Rank Sum = 4398  
Rank Mean = 366.5

GWC-17	12/13/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/11/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	12/15/2021	ND<20	175.5
	6/10/2022	ND<25	175.5
	12/15/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-3A	12/13/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/11/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/20/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-4A	12/13/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/18/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/15/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-5	12/13/2017	ND<20	175.5
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Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

6/21/2018	ND<20	175.5
12/19/2018	ND<20	175.5
6/13/2019	ND<20	175.5
12/11/2019	ND<20	175.5
6/24/2020	ND<20	175.5
12/18/2020	ND<20	175.5
6/16/2021	ND<20	175.5
12/14/2021	ND<20	175.5
6/9/2022	ND<20	175.5
12/13/2022	ND<20	175.5
6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-7	12/13/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/9/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-8	12/13/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/17/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/10/2022	ND<20	175.5
	12/14/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 1930.5  
Rank Mean = 175.5

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GWC-8A	12/13/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/17/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/10/2022	ND<20	175.5
	12/14/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

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GWC-16A	12/14/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/12/2019	ND<20	175.5
	6/23/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/10/2022	ND<25	175.5
	12/15/2022	ND<20	175.5

Rank Sum = 1930.5  
Rank Mean = 175.5

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GWC-11	12/14/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/13/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-12	12/14/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/10/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/22/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-12A	12/14/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/10/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-15	12/14/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/11/2019	ND<20	175.5
	12/10/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/9/2022	ND<20	175.5
	12/15/2022	ND<20	175.5
	6/22/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-18	12/14/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/10/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	12/15/2021	ND<20	175.5
	6/8/2022	ND<25	175.5
	12/15/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-19R	12/14/2017	ND<20	175.5
	6/20/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/10/2019	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/16/2020	ND<20	175.5
	6/15/2021	45.2	353
	12/15/2021	40.4	351
	6/7/2022	ND<25	175.5
	12/15/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2459  
Rank Mean = 204.917

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GWC-2	12/14/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/11/2019	ND<20	175.5
	6/23/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/16/2021	ND<20	175.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

6/8/2022	ND<20	175.5
12/13/2022	ND<20	175.5
6/20/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-6	12/14/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	12/20/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/11/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/9/2022	ND<20	175.5
	12/15/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-9	12/14/2017	ND<20	175.5
	6/21/2018	ND<20	175.5
	12/19/2018	ND<20	175.5
	6/13/2019	ND<20	175.5
	12/13/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/14/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	12/15/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-24	6/20/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/10/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	6/15/2021	ND<20	175.5
	6/8/2022	ND<25	175.5
	12/15/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 1404  
Rank Mean = 175.5

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GWC-14	6/21/2018	42	352
	6/12/2019	57	357
	12/11/2019	50.3	354
	6/25/2020	95.1	360
	12/18/2020	55.5	356
	6/16/2021	87.6	359
	12/16/2021	ND<20	175.5
	6/10/2022	85.5	358
	6/22/2023	55	355

Rank Sum = 3026.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

Rank Mean = 336.278

Well	Date	Result	Value
GWC-3	6/21/2018	ND<20	175.5
	12/18/2018	ND<20	175.5
	6/12/2019	ND<20	175.5
	12/11/2019	ND<20	175.5
	6/25/2020	ND<20	175.5
	12/17/2020	ND<20	175.5
	6/16/2021	ND<20	175.5
	12/16/2021	ND<20	175.5
	6/8/2022	ND<20	175.5
	6/20/2023	ND<20	175.5

Rank Sum = 1755

Rank Mean = 175.5

Well	Date	Result	Value
GWC-4	6/21/2018	ND<20	175.5
	6/24/2020	ND<20	175.5
	12/18/2020	ND<20	175.5
	6/17/2021	ND<20	175.5
	12/15/2021	ND<20	175.5
	6/9/2022	ND<20	175.5
	12/13/2022	ND<20	175.5
	6/21/2023	ND<20	175.5

Rank Sum = 1404

Rank Mean = 175.5

Well	Date	Result	Value
GWC-14R	6/9/2022	ND<20	175.5

Rank Sum = 175.5

Rank Mean = 175.5

Well	Date	Result	Value
GWC-8R	6/9/2022	ND<20	175.5

Rank Sum = 175.5

Rank Mean = 175.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 54.9848

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 328.986

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**54.9848 > 46.1942 indicating a significant group difference at 5% significance level**

**328.986 > 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 175.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	175.5	0	87.8515
GWC-22	175.5	0	87.8515
GWC-23	175.5	0	87.8515
GWC-23A	175.5	0	87.8515
GWA-1A	175.5	0	87.8515
GWC-10	175.5	0	87.8515
GWC-10A	175.5	0	87.8515
GWC-13	175.5	0	87.8515
<b>GWC-14A</b>	<b>366.5</b>	<b>191</b>	<b>87.8515</b>
GWC-17	175.5	0	87.8515

Forsyth County - Hightower Road Landfill - Phase II-IV

Cobalt

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-3A	175.5	0	87.8515
GWC-4A	175.5	0	87.8515
GWC-5	175.5	0	87.8515
GWC-7	175.5	0	87.8515
GWC-8	175.5	0	90.5094
GWC-8A	175.5	0	87.8515
GWC-16A	175.5	0	90.5094
GWC-11	175.5	0	87.8515
GWC-12	175.5	0	87.8515
GWC-12A	175.5	0	87.8515
GWC-15	175.5	0	87.8515
GWC-18	175.5	0	87.8515
GWC-19R	204.917	29.4167	87.8515
GWC-2	175.5	0	87.8515
GWC-6	175.5	0	87.8515
GWC-9	175.5	0	87.8515
GWC-24	175.5	0	101.613
<b>GWC-14</b>	<b>336.278</b>	<b>160.778</b>	<b>97.2427</b>
GWC-3	175.5	0	93.5993
GWC-4	175.5	0	101.613
GWC-14R	175.5	0	255.109
GWC-8R	175.5	0	255.109

**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 175.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	175.5	0	116.699
GWC-22	175.5	0	116.699
GWC-23	175.5	0	116.699
GWC-23A	175.5	0	116.699
GWA-1A	175.5	0	116.699
GWC-10	175.5	0	116.699
GWC-10A	175.5	0	116.699
GWC-13	175.5	0	116.699
<b>GWC-14A</b>	<b>366.5</b>	<b>191</b>	<b>116.699</b>
GWC-17	175.5	0	116.699
GWC-3A	175.5	0	116.699
GWC-4A	175.5	0	116.699
GWC-5	175.5	0	116.699
GWC-7	175.5	0	116.699
GWC-8	175.5	0	120.23
GWC-8A	175.5	0	116.699
GWC-16A	175.5	0	120.23
GWC-11	175.5	0	116.699
GWC-12	175.5	0	116.699
GWC-12A	175.5	0	116.699
GWC-15	175.5	0	116.699
GWC-18	175.5	0	116.699
GWC-19R	204.917	29.4167	116.699
GWC-2	175.5	0	116.699
GWC-6	175.5	0	116.699
GWC-9	175.5	0	116.699
GWC-24	175.5	0	134.98
<b>GWC-14</b>	<b>336.278</b>	<b>160.778</b>	<b>129.174</b>
GWC-3	175.5	0	124.335

**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	12/12/2017	ND<10	181
	6/20/2018	ND<10	181
	12/18/2018	ND<10	181
	6/11/2019	ND<10	181
	12/10/2019	ND<10	181
	6/24/2020	ND<10	181
	12/18/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/9/2022	ND<10	181
	12/12/2022	ND<10	181
	12/15/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2353  
 Rank Mean = 181

GWA-2	12/12/2017	ND<10	181
	6/20/2018	ND<10	181
	12/18/2018	ND<10	181
	6/12/2019	ND<10	181
	12/12/2019	ND<10	181
	6/23/2020	ND<10	181
	12/18/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/9/2022	ND<10	181
	12/13/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
 Rank Mean = 181

Background Rank Sum = 4525  
 Background Rank Mean = 181

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/12/2017	ND<10	181
	6/19/2018	ND<10	181
	12/18/2018	ND<10	181
	6/12/2019	ND<10	181
	12/11/2019	ND<10	181
	6/23/2020	ND<10	181
	12/17/2020	ND<10	181
	6/15/2021	ND<10	181
	12/15/2021	ND<10	181
	6/7/2022	ND<10	181

	12/14/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
 Rank Mean = 181

GWC-22	12/12/2017	ND<10	181
	6/20/2018	ND<10	181
	12/19/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/24/2020	ND<10	181
	12/18/2020	ND<10	181
	6/15/2021	ND<10	181
	12/14/2021	ND<10	181
	6/7/2022	ND<10	181
	12/13/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
 Rank Mean = 181

GWC-23	12/12/2017	ND<10	181
	6/19/2018	ND<10	181
	12/19/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/24/2020	ND<10	181
	12/17/2020	ND<10	181
	6/15/2021	ND<10	181
	12/14/2021	ND<10	181
	6/7/2022	ND<10	181
	12/13/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2172  
 Rank Mean = 181

GWC-23A	12/12/2017	ND<10	181
	6/19/2018	ND<10	181
	12/19/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/24/2020	ND<10	181
	12/17/2020	ND<10	181
	6/15/2021	ND<10	181
	12/14/2021	ND<10	181
	6/7/2022	ND<10	181
	12/13/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2172  
 Rank Mean = 181

GWA-1A	12/13/2017	ND<10	181
	6/20/2018	ND<10	181
	12/18/2018	ND<10	181
	6/10/2019	ND<10	181
	12/9/2019	ND<10	181
	6/23/2020	ND<10	181
	12/17/2020	ND<10	181

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Nickel

6/17/2021	ND<10	181
12/16/2021	ND<10	181
6/8/2022	ND<10	181
12/14/2022	ND<10	181
6/22/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

GWC-10	12/13/2017	ND<10	181
	6/20/2018	ND<10	181
	12/18/2018	ND<10	181
	6/11/2019	ND<10	181
	12/13/2019	ND<10	181
	6/25/2020	ND<10	181
	12/16/2020	ND<10	181
	6/16/2021	ND<10	181
	12/16/2021	ND<10	181
	6/8/2022	ND<10	181
	12/15/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

GWC-10A	12/13/2017	ND<10	181
	6/20/2018	ND<10	181
	12/18/2018	ND<10	181
	6/11/2019	ND<10	181
	12/13/2019	ND<10	181
	6/25/2020	ND<10	181
	12/16/2020	ND<10	181
	6/16/2021	ND<10	181
	12/16/2021	ND<10	181
	6/8/2022	ND<10	181
	12/15/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

GWC-13	12/13/2017	ND<10	181
	6/20/2018	ND<10	181
	12/20/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/24/2020	ND<10	181
	12/16/2020	ND<10	181
	6/16/2021	ND<10	181
	12/16/2021	ND<10	181
	6/9/2022	ND<10	181
	12/13/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

GWC-14A	12/13/2017	21	363
	6/21/2018	24	369
	12/19/2018	20	362
	6/12/2019	21	364

Forsyth County - Hightower Road Landfill - Phase II-IV

Nickel

12/11/2019	ND<10	181
6/24/2020	22.2	366
12/16/2020	23.6	368
6/16/2021	22.2	367
12/15/2021	ND<10	181
6/10/2022	ND<10	181
12/14/2022	ND<10	181
6/21/2023	ND<10	181

Rank Sum = 3464  
Rank Mean = 288.667

GWC-17	12/13/2017	ND<10	181
	6/20/2018	ND<10	181
	12/20/2018	ND<10	181
	6/13/2019	ND<10	181
	12/11/2019	ND<10	181
	6/24/2020	ND<10	181
	12/16/2020	ND<10	181
	6/15/2021	ND<10	181
	12/15/2021	ND<10	181
	6/10/2022	ND<20	181
	12/15/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

GWC-3A	12/13/2017	ND<10	181
	6/21/2018	ND<10	181
	12/18/2018	ND<10	181
	6/12/2019	ND<10	181
	12/11/2019	ND<10	181
	6/25/2020	ND<10	181
	12/17/2020	ND<10	181
	6/15/2021	ND<10	181
	12/16/2021	ND<10	181
	6/8/2022	ND<10	181
	12/13/2022	ND<10	181
	6/20/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

GWC-4A	12/13/2017	ND<10	181
	6/21/2018	ND<10	181
	12/18/2018	ND<10	181
	6/12/2019	22	365
	12/12/2019	ND<10	181
	6/24/2020	ND<10	181
	12/18/2020	ND<10	181
	6/18/2021	ND<10	181
	12/16/2021	ND<10	181
	6/8/2022	ND<10	181
	12/15/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2356  
Rank Mean = 196.333

GWC-5	12/13/2017	ND<10	181
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Forsyth County - Hightower Road Landfill - Phase II-IV

Nickel

6/21/2018	ND<10	181
12/19/2018	ND<10	181
6/13/2019	ND<10	181
12/11/2019	ND<10	181
6/24/2020	ND<10	181
12/18/2020	ND<10	181
6/16/2021	ND<10	181
12/14/2021	ND<10	181
6/9/2022	ND<10	181
12/13/2022	ND<10	181
6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-7	12/13/2017	ND<10	181
	6/20/2018	ND<10	181
	12/19/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/25/2020	ND<10	181
	12/18/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/9/2022	ND<10	181
	12/13/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-8	12/13/2017	ND<10	181
	6/21/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/24/2020	ND<10	181
	12/17/2020	ND<10	181
	6/17/2021	ND<10	181
	12/16/2021	ND<10	181
	6/10/2022	ND<10	181
	12/14/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 1991  
Rank Mean = 181

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GWC-8A	12/13/2017	ND<10	181
	6/21/2018	ND<10	181
	12/20/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/24/2020	ND<10	181
	12/16/2020	ND<10	181
	6/17/2021	ND<10	181
	12/16/2021	ND<10	181
	6/10/2022	ND<10	181
	12/14/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

Forsyth County - Hightower Road Landfill - Phase II-IV

Nickel

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GWC-16A	12/14/2017	ND<10	181
	6/21/2018	ND<10	181
	12/20/2018	ND<10	181
	6/13/2019	ND<10	181
	12/12/2019	ND<10	181
	6/23/2020	ND<10	181
	12/17/2020	ND<10	181
	6/16/2021	ND<10	181
	12/16/2021	ND<10	181
	6/10/2022	ND<20	181
	12/15/2022	ND<10	181

Rank Sum = 1991  
Rank Mean = 181

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GWC-11	12/14/2017	ND<10	181
	6/20/2018	ND<10	181
	12/20/2018	ND<10	181
	6/13/2019	ND<10	181
	12/13/2019	ND<10	181
	6/25/2020	ND<10	181
	12/16/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/8/2022	ND<10	181
	12/13/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-12	12/14/2017	ND<10	181
	6/20/2018	ND<10	181
	12/20/2018	ND<10	181
	6/12/2019	ND<10	181
	12/10/2019	ND<10	181
	6/25/2020	ND<10	181
	12/22/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/8/2022	ND<10	181
	12/13/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-12A	12/14/2017	ND<10	181
	6/20/2018	ND<10	181
	12/20/2018	ND<10	181
	6/12/2019	ND<10	181
	12/10/2019	ND<10	181
	6/25/2020	ND<10	181
	12/16/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/8/2022	ND<10	181
	12/13/2022	ND<10	181
	6/21/2023	ND<10	181

Forsyth County - Hightower Road Landfill - Phase II-IV

Nickel

Rank Sum = 2172  
Rank Mean = 181

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GWC-15	12/14/2017	ND<10	181
	6/20/2018	ND<10	181
	12/19/2018	ND<10	181
	6/11/2019	ND<10	181
	12/10/2019	ND<10	181
	6/25/2020	ND<10	181
	12/17/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/9/2022	ND<10	181
	12/15/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-18	12/14/2017	ND<10	181
	6/20/2018	ND<10	181
	12/19/2018	ND<10	181
	6/12/2019	24	370
	12/10/2019	29.8	371
	6/24/2020	ND<10	181
	12/16/2020	ND<10	181
	6/15/2021	ND<10	181
	12/15/2021	33.7	372
	6/8/2022	ND<20	181
	12/15/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2742  
Rank Mean = 228.5

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GWC-19R	12/14/2017	ND<10	181
	6/20/2018	ND<10	181
	12/19/2018	ND<10	181
	6/12/2019	ND<10	181
	12/10/2019	ND<10	181
	6/24/2020	ND<10	181
	12/16/2020	ND<10	181
	6/15/2021	ND<10	181
	12/15/2021	ND<10	181
	6/7/2022	ND<20	181
	12/15/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-2	12/14/2017	ND<10	181
	6/21/2018	ND<10	181
	12/20/2018	ND<10	181
	6/13/2019	ND<10	181
	12/11/2019	ND<10	181
	6/23/2020	ND<10	181
	12/17/2020	ND<10	181
	6/16/2021	ND<10	181
	12/16/2021	ND<10	181

Forsyth County - Hightower Road Landfill - Phase II-IV

Nickel

6/8/2022	ND<10	181
12/13/2022	ND<10	181
6/20/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-6	12/14/2017	ND<10	181
	6/21/2018	ND<10	181
	12/20/2018	ND<10	181
	6/13/2019	ND<10	181
	12/11/2019	ND<10	181
	6/25/2020	ND<10	181
	12/18/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/9/2022	ND<10	181
	12/15/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-9	12/14/2017	ND<10	181
	6/21/2018	ND<10	181
	12/19/2018	ND<10	181
	6/13/2019	ND<10	181
	12/13/2019	ND<10	181
	6/25/2020	ND<10	181
	12/18/2020	ND<10	181
	6/16/2021	ND<10	181
	12/14/2021	ND<10	181
	6/8/2022	ND<10	181
	12/15/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 2172  
Rank Mean = 181

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GWC-24	6/20/2018	ND<10	181
	6/12/2019	ND<10	181
	12/10/2019	ND<10	181
	6/25/2020	ND<10	181
	6/15/2021	ND<10	181
	6/8/2022	ND<20	181
	12/15/2022	ND<10	181
	6/21/2023	ND<10	181

Rank Sum = 1448  
Rank Mean = 181

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GWC-14	6/21/2018	ND<10	181
	6/12/2019	ND<10	181
	12/11/2019	ND<10	181
	6/25/2020	ND<10	181
	12/18/2020	ND<10	181
	6/16/2021	ND<10	181
	12/16/2021	ND<10	181
	6/10/2022	ND<10	181
	6/22/2023	ND<10	181

Rank Sum = 1629

Forsyth County - Hightower Road Landfill - Phase II-IV

Nickel

Rank Mean = 181

GWC-3	Date	Result	Rank
6/21/2018	ND<10	181	
12/18/2018	ND<10	181	
6/12/2019	ND<10	181	
12/11/2019	ND<10	181	
6/25/2020	ND<10	181	
12/17/2020	ND<10	181	
6/16/2021	ND<10	181	
12/16/2021	ND<10	181	
6/8/2022	ND<10	181	
6/20/2023	ND<10	181	

Rank Sum = 1810

Rank Mean = 181

GWC-4	Date	Result	Rank
6/21/2018	ND<10	181	
6/24/2020	ND<10	181	
12/18/2020	ND<10	181	
6/17/2021	ND<10	181	
12/15/2021	ND<10	181	
6/9/2022	ND<10	181	
12/13/2022	ND<10	181	
6/21/2023	ND<10	181	

Rank Sum = 1448

Rank Mean = 181

GWC-14R	Date	Result	Rank
6/9/2022	ND<10	181	

Rank Sum = 181

Rank Mean = 181

GWC-8R	Date	Result	Rank
6/9/2022	ND<10	181	

Rank Sum = 181

Rank Mean = 181

**Calculation Results:**

Kruskal-Wallis H Statistic = 13.6425

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 158.426

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

13.6425 < 46.1942 indicating no significant group difference at 5% significance level

**158.426 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	181	0	87.8515
GWC-22	181	0	87.8515
GWC-23	181	0	87.8515
GWC-23A	181	0	87.8515
GWA-1A	181	0	87.8515
GWC-10	181	0	87.8515
GWC-10A	181	0	87.8515
GWC-13	181	0	87.8515
<b>GWC-14A</b>	<b>288.667</b>	<b>107.667</b>	<b>87.8515</b>
GWC-17	181	0	87.8515

Forsyth County - Hightower Road Landfill - Phase II-IV

Nickel

GWC-3A	181	0	87.8515
GWC-4A	196.333	15.3333	87.8515
GWC-5	181	0	87.8515
GWC-7	181	0	87.8515
GWC-8	181	0	90.5094
GWC-8A	181	0	87.8515
GWC-16A	181	0	90.5094
GWC-11	181	0	87.8515
GWC-12	181	0	87.8515
GWC-12A	181	0	87.8515
GWC-15	181	0	87.8515
GWC-18	228.5	47.5	87.8515
GWC-19R	181	0	87.8515
GWC-2	181	0	87.8515
GWC-6	181	0	87.8515
GWC-9	181	0	87.8515
GWC-24	181	0	101.613
GWC-14	181	0	97.2427
GWC-3	181	0	93.5993
GWC-4	181	0	101.613
GWC-14R	181	0	255.109
GWC-8R	181	0	255.109

**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

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	181	0	116.699
GWC-22	181	0	116.699
GWC-23	181	0	116.699
GWC-23A	181	0	116.699
GWA-1A	181	0	116.699
GWC-10	181	0	116.699
GWC-10A	181	0	116.699
GWC-13	181	0	116.699
GWC-14A	288.667	107.667	116.699
GWC-17	181	0	116.699
GWC-3A	181	0	116.699
GWC-4A	196.333	15.3333	116.699
GWC-5	181	0	116.699
GWC-7	181	0	116.699
GWC-8	181	0	120.23
GWC-8A	181	0	116.699
GWC-16A	181	0	120.23
GWC-11	181	0	116.699
GWC-12	181	0	116.699
GWC-12A	181	0	116.699
GWC-15	181	0	116.699
GWC-18	228.5	47.5	116.699
GWC-19R	181	0	116.699
GWC-2	181	0	116.699
GWC-6	181	0	116.699
GWC-9	181	0	116.699
GWC-24	181	0	134.98
GWC-14	181	0	129.174
GWC-3	181	0	124.335

**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	12/12/2017	38	336
	6/20/2018	48	358
	12/18/2018	44	353
	6/11/2019	42	349
	12/10/2019	30.4	326
	6/24/2020	30.7	327
	12/18/2020	21.1	282
	6/16/2021	21.6	284
	12/14/2021	22.3	289
	6/9/2022	30.8	328
	12/12/2022	ND<10	137.5
	12/15/2022	20.5	277
	6/22/2023	20.5	278

Rank Sum = 3924.5

Rank Mean = 301.885

GWA-2	12/12/2017	ND<10	137.5
	6/20/2018	ND<10	137.5
	12/18/2018	ND<10	137.5
	6/12/2019	30	324
	12/12/2019	25.9	309
	6/23/2020	ND<10	137.5
	12/18/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/9/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 2008

Rank Mean = 167.333

Background Rank Sum = 5932.5

Background Rank Mean = 237.3

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-3	12/12/2017	ND<10	137.5
	6/19/2018	41	344
	12/18/2018	ND<10	137.5
	6/12/2019	ND<10	137.5
	12/11/2019	71.5	368
	6/23/2020	20.3	276
	12/17/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	12/15/2021	ND<10	137.5
	6/7/2022	ND<10	137.5

12/14/2022 ND&lt;10 137.5

6/21/2023 ND&lt;10 137.5

Rank Sum = 2225.5

Rank Mean = 185.458

GWC-22	12/12/2017	ND<10	137.5
	6/20/2018	21	280
	12/19/2018	ND<10	137.5
	6/13/2019	ND<10	137.5
	12/12/2019	ND<10	137.5
	6/24/2020	ND<10	137.5
	12/18/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/7/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 1792.5

Rank Mean = 149.375

GWC-23	12/12/2017	ND<10	137.5
	6/19/2018	ND<10	137.5
	12/19/2018	ND<10	137.5
	6/13/2019	ND<10	137.5
	12/12/2019	ND<10	137.5
	6/24/2020	ND<10	137.5
	12/17/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/7/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/22/2023	ND<10	137.5

Rank Sum = 1650

Rank Mean = 137.5

GWC-23A	12/12/2017	ND<10	137.5
	6/19/2018	ND<10	137.5
	12/19/2018	ND<10	137.5
	6/13/2019	ND<10	137.5
	12/12/2019	31.6	330
	6/24/2020	ND<10	137.5
	12/17/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/7/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/22/2023	ND<10	137.5

Rank Sum = 1842.5

Rank Mean = 153.542

GWA-1A	12/13/2017	24	295
	6/20/2018	ND<10	137.5
	12/18/2018	ND<10	137.5
	6/10/2019	ND<10	137.5
	12/9/2019	ND<10	137.5
	6/23/2020	ND<10	137.5
	12/17/2020	ND<10	137.5

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Zinc

6/17/2021	ND<10	137.5
12/16/2021	ND<10	137.5
6/8/2022	ND<10	137.5
12/14/2022	ND<10	137.5
6/22/2023	ND<10	137.5

Rank Sum = 1807.5  
Rank Mean = 150.625

GWC-10	12/13/2017	28	320
	6/20/2018	41	345
	12/18/2018	22	287
	6/11/2019	24	296
	12/13/2019	86.4	371
	6/25/2020	27.9	319
	12/16/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/15/2022	ND<10	137.5
	6/22/2023	ND<10	137.5

Rank Sum = 2763  
Rank Mean = 230.25

GWC-10A	12/13/2017	ND<10	137.5
	6/20/2018	ND<10	137.5
	12/18/2018	38	337
	6/11/2019	ND<10	137.5
	12/13/2019	31.2	329
	6/25/2020	ND<10	137.5
	12/16/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/15/2022	21.6	285
	6/22/2023	21.3	283

Rank Sum = 2334  
Rank Mean = 194.5

GWC-13	12/13/2017	ND<10	137.5
	6/20/2018	ND<10	137.5
	12/20/2018	ND<10	137.5
	6/13/2019	ND<10	137.5
	12/12/2019	23.6	294
	6/24/2020	ND<10	137.5
	12/16/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/9/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 1806.5  
Rank Mean = 150.542

GWC-14A	12/13/2017	ND<10	137.5
	6/21/2018	20	275
	12/19/2018	ND<10	137.5
	6/12/2019	ND<10	137.5

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Zinc

12/11/2019	ND<10	137.5
6/24/2020	ND<10	137.5
12/16/2020	ND<10	137.5
6/16/2021	ND<10	137.5
12/15/2021	26	310
6/10/2022	ND<10	137.5
12/14/2022	ND<10	137.5
6/21/2023	ND<10	137.5

Rank Sum = 1960  
Rank Mean = 163.333

GWC-17	12/13/2017	ND<10	137.5
	6/20/2018	ND<10	137.5
	12/20/2018	27	315
	6/13/2019	24	297
	12/11/2019	ND<10	137.5
	6/24/2020	ND<10	137.5
	12/16/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	12/15/2021	ND<10	137.5
	6/10/2022	ND<10	137.5
	12/15/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 1987  
Rank Mean = 165.583

GWC-3A	12/13/2017	ND<10	137.5
	6/21/2018	ND<10	137.5
	12/18/2018	ND<10	137.5
	6/12/2019	24	298
	12/11/2019	28.8	322
	6/25/2020	33.1	331
	12/17/2020	ND<10	137.5
	6/15/2021	20.6	279
	12/16/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/20/2023	ND<10	137.5

Rank Sum = 2330  
Rank Mean = 194.167

GWC-4A	12/13/2017	25	304
	6/21/2018	ND<10	137.5
	12/18/2018	ND<10	137.5
	6/12/2019	23	290
	12/12/2019	50	360
	6/24/2020	ND<10	137.5
	12/18/2020	ND<10	137.5
	6/18/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/8/2022	24.5	301
	12/15/2022	ND<10	137.5
	6/22/2023	57	362

Rank Sum = 2579.5  
Rank Mean = 214.958

GWC-5	12/13/2017	ND<10	137.5
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Forsyth County - Hightower Road Landfill - Phase II-IV

Zinc

6/21/2018	ND<10	137.5
12/19/2018	26	311
6/13/2019	ND<10	137.5
12/11/2019	38.3	339
6/24/2020	ND<10	137.5
12/18/2020	ND<10	137.5
6/16/2021	ND<10	137.5
12/14/2021	ND<10	137.5
6/9/2022	27.2	316
12/13/2022	ND<10	137.5
6/21/2023	ND<10	137.5

Rank Sum = 2203.5  
Rank Mean = 183.625

GWC-7	12/13/2017	ND<10	137.5
	6/20/2018	30	325
	12/19/2018	110	372
	6/13/2019	23	291
	12/12/2019	42.2	351
	6/25/2020	ND<10	137.5
	12/18/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/9/2022	24	299
	12/13/2022	35.3	335
	6/21/2023	ND<10	137.5

Rank Sum = 2798  
Rank Mean = 233.167

GWC-8	12/13/2017	ND<10	137.5
	6/21/2018	ND<10	137.5
	6/13/2019	ND<10	137.5
	12/12/2019	ND<10	137.5
	6/24/2020	ND<10	137.5
	12/17/2020	ND<10	137.5
	6/17/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/10/2022	ND<10	137.5
	12/14/2022	ND<10	137.5
	6/22/2023	ND<10	137.5

Rank Sum = 1512.5  
Rank Mean = 137.5

GWC-8A	12/13/2017	ND<10	137.5
	6/21/2018	34	332
	12/20/2018	42	350
	6/13/2019	ND<10	137.5
	12/12/2019	ND<10	137.5
	6/24/2020	ND<10	137.5
	12/16/2020	ND<10	137.5
	6/17/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/10/2022	ND<10	137.5
	12/14/2022	ND<10	137.5
	6/22/2023	ND<10	137.5

Rank Sum = 2057  
Rank Mean = 171.417

Forsyth County - Hightower Road Landfill - Phase II-IV

Zinc

GWC-16A	12/14/2017	ND<10	137.5
	6/21/2018	44	354
	12/20/2018	ND<10	137.5
	6/13/2019	ND<10	137.5
	12/12/2019	ND<10	137.5
	6/23/2020	ND<10	137.5
	12/17/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/10/2022	34.1	334
	12/15/2022	ND<10	137.5

Rank Sum = 1925.5  
Rank Mean = 175.045

GWC-11	12/14/2017	ND<10	137.5
	6/20/2018	26	312
	12/20/2018	ND<10	137.5
	6/13/2019	34	333
	12/13/2019	23.3	293
	6/25/2020	40	342
	12/16/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/13/2022	58.6	363
	6/21/2023	ND<10	137.5

Rank Sum = 2605.5  
Rank Mean = 217.125

GWC-12	12/14/2017	ND<10	137.5
	6/20/2018	ND<10	137.5
	12/20/2018	ND<10	137.5
	6/12/2019	ND<10	137.5
	12/10/2019	ND<10	137.5
	6/25/2020	ND<10	137.5
	12/22/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 1650  
Rank Mean = 137.5

GWC-12A	12/14/2017	ND<10	137.5
	6/20/2018	26	313
	12/20/2018	ND<10	137.5
	6/12/2019	ND<10	137.5
	12/10/2019	ND<10	137.5
	6/25/2020	ND<10	137.5
	12/16/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/13/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Zinc

Rank Sum = 1825.5  
Rank Mean = 152.125

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GWC-15	12/14/2017	60	364
	6/20/2018	56	361
	12/19/2018	ND<10	137.5
	6/11/2019	ND<10	137.5
	12/10/2019	ND<10	137.5
	6/25/2020	ND<10	137.5
	12/17/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/14/2021	ND<10	137.5
	6/9/2022	24.9	303
	12/15/2022	ND<10	137.5
	6/22/2023	ND<10	137.5

Rank Sum = 2265.5  
Rank Mean = 188.792

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GWC-18	12/14/2017	29	323
	6/20/2018	ND<10	137.5
	12/19/2018	26	314
	6/12/2019	ND<10	137.5
	12/10/2019	38.7	340
	6/24/2020	ND<10	137.5
	12/16/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	12/15/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/15/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 2214.5  
Rank Mean = 184.542

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GWC-19R	12/14/2017	ND<10	137.5
	6/20/2018	21	281
	12/19/2018	ND<10	137.5
	6/12/2019	ND<10	137.5
	12/10/2019	ND<10	137.5
	6/24/2020	ND<10	137.5
	12/16/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	12/15/2021	ND<10	137.5
	6/7/2022	ND<10	137.5
	12/15/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 1793.5  
Rank Mean = 149.458

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GWC-2	12/14/2017	ND<10	137.5
	6/21/2018	ND<10	137.5
	12/20/2018	23	292
	6/13/2019	28	321
	12/11/2019	25	305
	6/23/2020	27.8	318
	12/17/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/16/2021	ND<10	137.5

Forsyth County - Hightower Road Landfill - Phase II-IV

Zinc

6/8/2022	ND<10	137.5
12/13/2022	ND<10	137.5
6/20/2023	ND<10	137.5

Rank Sum = 2336  
Rank Mean = 194.667

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GWC-6	12/14/2017	ND<10	137.5
	6/21/2018	ND<10	137.5
	12/20/2018	ND<10	137.5
	6/13/2019	ND<10	137.5
	12/11/2019	ND<10	137.5
	6/25/2020	ND<10	137.5
	12/18/2020	ND<10	137.5
	6/16/2021	79	370
	12/14/2021	ND<10	137.5
	6/9/2022	ND<10	137.5
	12/15/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 1882.5  
Rank Mean = 156.875

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GWC-9	12/14/2017	46	357
	6/21/2018	45	355
	12/19/2018	38	338
	6/13/2019	60	365
	12/13/2019	78	369
	6/25/2020	45.9	356
	12/18/2020	41.9	348
	6/16/2021	41.8	347
	12/14/2021	49.9	359
	6/8/2022	68.7	367
	12/15/2022	41.6	346
	6/21/2023	40.4	343

Rank Sum = 4250  
Rank Mean = 354.167

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GWC-24	6/20/2018	ND<10	137.5
	6/12/2019	ND<10	137.5
	12/10/2019	24	300
	6/25/2020	ND<10	137.5
	6/15/2021	ND<10	137.5
	6/8/2022	ND<10	137.5
	12/15/2022	ND<10	137.5
	6/21/2023	ND<10	137.5

Rank Sum = 1262.5  
Rank Mean = 157.813

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GWC-14	6/21/2018	67	366
	6/12/2019	ND<10	137.5
	12/11/2019	27.7	317
	6/25/2020	25.3	308
	12/18/2020	ND<10	137.5
	6/16/2021	ND<10	137.5
	12/16/2021	ND<10	137.5
	6/10/2022	22.1	288
	6/22/2023	21.9	286

Rank Sum = 2115

Forsyth County - Hightower Road Landfill - Phase II-IV

Zinc

Rank Mean = 235

GWC-3	Date	Result	Value
6/21/2018	ND<10	137.5	
12/18/2018	ND<10	137.5	
6/12/2019	ND<10	137.5	
12/11/2019	ND<10	137.5	
6/25/2020	ND<10	137.5	
12/17/2020	ND<10	137.5	
6/16/2021	ND<10	137.5	
12/16/2021	ND<10	137.5	
6/8/2022	25.1	307	
6/20/2023	ND<10	137.5	

Rank Sum = 1544.5  
Rank Mean = 154.45

GWC-4	Date	Result	Value
6/21/2018	25	306	
6/24/2020	ND<10	137.5	
12/18/2020	ND<10	137.5	
6/17/2021	43.2	352	
12/15/2021	ND<10	137.5	
6/9/2022	39.4	341	
12/13/2022	ND<10	137.5	
6/21/2023	ND<10	137.5	

Rank Sum = 1686.5  
Rank Mean = 210.813

GWC-14R	Date	Result	Value
6/9/2022	ND<10	137.5	

Rank Sum = 137.5  
Rank Mean = 137.5

GWC-8R	Date	Result	Value
6/9/2022	24.6	302	

Rank Sum = 302  
Rank Mean = 302

**Calculation Results:**

Kruskal-Wallis H Statistic = 63.5248

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 105.803

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**63.5248 > 46.1942 indicating a significant group difference at 5% significance level**

**105.803 > 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 237.3

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	185.458	-51.8417	87.8515
GWC-22	149.375	-87.925	87.8515
GWC-23	137.5	-99.8	87.8515
GWC-23A	153.542	-83.7583	87.8515
GWA-1A	150.625	-86.675	87.8515
GWC-10	230.25	-7.05	87.8515
GWC-10A	194.5	-42.8	87.8515
GWC-13	150.542	-86.7583	87.8515
GWC-14A	163.333	-73.9667	87.8515
GWC-17	165.583	-71.7167	87.8515

Forsyth County - Hightower Road Landfill - Phase II-IV

Zinc

GWC-3A	194.167	-43.1333	87.8515
GWC-4A	214.958	-22.3417	87.8515
GWC-5	183.625	-53.675	87.8515
GWC-7	233.167	-4.13333	87.8515
GWC-8	137.5	-99.8	90.5094
GWC-8A	171.417	-65.8833	87.8515
GWC-16A	175.045	-62.2545	90.5094
GWC-11	217.125	-20.175	87.8515
GWC-12	137.5	-99.8	87.8515
GWC-12A	152.125	-85.175	87.8515
GWC-15	188.792	-48.5083	87.8515
GWC-18	184.542	-52.7583	87.8515
GWC-19R	149.458	-87.8417	87.8515
GWC-2	194.667	-42.6333	87.8515
GWC-6	156.875	-80.425	87.8515
<b>GWC-9</b>	<b>354.167</b>	<b>116.867</b>	<b>87.8515</b>
GWC-24	157.813	-79.4875	101.613
GWC-14	235	-2.3	97.2427
GWC-3	154.45	-82.85	93.5993
GWC-4	210.813	-26.4875	101.613
GWC-14R	137.5	-99.8	255.109
GWC-8R	302	64.7	255.109

**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 237.3

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	185.458	-51.8417	116.699
GWC-22	149.375	-87.925	116.699
GWC-23	137.5	-99.8	116.699
GWC-23A	153.542	-83.7583	116.699
GWA-1A	150.625	-86.675	116.699
GWC-10	230.25	-7.05	116.699
GWC-10A	194.5	-42.8	116.699
GWC-13	150.542	-86.7583	116.699
GWC-14A	163.333	-73.9667	116.699
GWC-17	165.583	-71.7167	116.699
GWC-3A	194.167	-43.1333	116.699
GWC-4A	214.958	-22.3417	116.699
GWC-5	183.625	-53.675	116.699
GWC-7	233.167	-4.13333	116.699
GWC-8	137.5	-99.8	120.23
GWC-8A	171.417	-65.8833	116.699
GWC-16A	175.045	-62.2545	120.23
GWC-11	217.125	-20.175	116.699
GWC-12	137.5	-99.8	116.699
GWC-12A	152.125	-85.175	116.699
GWC-15	188.792	-48.5083	116.699
GWC-18	184.542	-52.7583	116.699
GWC-19R	149.458	-87.8417	116.699
GWC-2	194.667	-42.6333	116.699
GWC-6	156.875	-80.425	116.699
<b>GWC-9</b>	<b>354.167</b>	<b>116.867</b>	<b>116.699</b>
GWC-24	157.813	-79.4875	134.98
GWC-14	235	-2.3	129.174
GWC-3	154.45	-82.85	124.335



**STATISTICAL ANALYSIS:  
Non-Parametric Tolerance Interval Test**

Forsyth County - Hightower Road MSWLF - Phase I  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWB-2	FALSE	96%
1,1-Dichloroethane	PH1-GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWC-4	FALSE	96%
1,1-Dichloroethane	PH1-GWB-1	FALSE	96%
1,1-Dichloroethane	PH1-GWC-3	<b>TRUE</b>	96%
1,1-Dichloroethane	PH1-GWC-3A	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-GWA-2	FALSE	96%
1,1-Dichloroethane	PH1-GWC-2	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-3	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	PH1-GWC-3A	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-2	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	PH1-GWC-2	<b>TRUE</b>	96%
Tetrachloroethene	PH1-GWB-2	FALSE	96%
Tetrachloroethene	PH1-GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWC-4	FALSE	96%
Tetrachloroethene	PH1-GWB-1	FALSE	96%
Tetrachloroethene	PH1-GWC-3	<b>TRUE</b>	96%
Tetrachloroethene	PH1-GWC-3A	FALSE	96%
Tetrachloroethene	GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1A	FALSE	96%
Tetrachloroethene	PH1-GWA-2	FALSE	96%
Tetrachloroethene	PH1-GWC-2	<b>TRUE</b>	96%
Trichloroethene	PH1-GWB-2	FALSE	96%
Trichloroethene	PH1-GWC-1	FALSE	96%
Trichloroethene	PH1-GWC-4	FALSE	96%
Trichloroethene	PH1-GWB-1	FALSE	96%
Trichloroethene	PH1-GWC-3	<b>TRUE</b>	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  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWC-3A	TRUE	96%
Trichloroethene	GWC-1	FALSE	96%
Trichloroethene	PH1-GWA-1	FALSE	96%
Trichloroethene	PH1-GWA-1A	FALSE	96%
Trichloroethene	PH1-GWA-2	FALSE	96%
Trichloroethene	PH1-GWC-2	FALSE	96%
Barium	PH1-GWB-2	FALSE	96%
Barium	PH1-GWC-1	TRUE	96%
Barium	PH1-GWC-4	FALSE	96%
Barium	PH1-GWA-1A	FALSE	96%
Barium	PH1-GWB-1	TRUE	96%
Barium	PH1-GWC-2	Passed KW	96%
Barium	PH1-GWC-3	FALSE	96%
Barium	PH1-GWC-3A	FALSE	96%
Barium	GWC-1	TRUE	96%
Barium	PH1-GWA-1	FALSE	96%
Barium	PH1-GWA-2	TRUE	96%
Chromium	PH1-GWB-2	FALSE	96%
Chromium	PH1-GWC-1	FALSE	96%
Chromium	PH1-GWC-4	FALSE	96%
Chromium	PH1-GWA-1A	FALSE	96%
Chromium	PH1-GWB-1	FALSE	96%
Chromium	PH1-GWC-2	TRUE	96%
Chromium	PH1-GWC-3	FALSE	96%
Chromium	PH1-GWC-3A	FALSE	96%
Chromium	GWC-1	FALSE	96%
Chromium	PH1-GWA-1	FALSE	96%
Chromium	PH1-GWA-2	FALSE	96%
Cobalt	PH1-GWB-2	FALSE	96%
Cobalt	PH1-GWC-1	FALSE	96%
Cobalt	PH1-GWC-4	FALSE	96%
Cobalt	PH1-GWA-1A	FALSE	96%
Cobalt	PH1-GWB-1	FALSE	96%
Cobalt	PH1-GWC-2	FALSE	96%
Cobalt	PH1-GWC-3	FALSE	96%
Cobalt	PH1-GWC-3A	FALSE	96%
Cobalt	GWC-1	FALSE	96%
Cobalt	PH1-GWA-1	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  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	PH1-GWA-2	FALSE	96%
Nickel	PH1-GWB-2	FALSE	96%
Nickel	PH1-GWC-1	FALSE	96%
Nickel	PH1-GWC-4	FALSE	96%
Nickel	PH1-GWA-1A	FALSE	96%
Nickel	PH1-GWB-1	FALSE	96%
Nickel	PH1-GWC-2	Passed KW	96%
Nickel	PH1-GWC-3	FALSE	96%
Nickel	PH1-GWC-3A	FALSE	96%
Nickel	GWC-1	FALSE	96%
Nickel	PH1-GWA-1	FALSE	96%
Nickel	PH1-GWA-2	FALSE	96%
Zinc	PH1-GWB-2	FALSE	96%
Zinc	PH1-GWC-1	FALSE	96%
Zinc	PH1-GWC-4	FALSE	96%
Zinc	PH1-GWA-1A	FALSE	96%
Zinc	PH1-GWB-1	FALSE	96%
Zinc	PH1-GWC-2	FALSE	96%
Zinc	PH1-GWC-3	FALSE	96%
Zinc	PH1-GWC-3A	FALSE	96%
Zinc	GWC-1	FALSE	96%
Zinc	PH1-GWA-1	FALSE	96%

Notes:

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

**Non-Parametric Tolerance Interval**

**Parameter: 1,1-Dichloroethane**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 79.8701%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	ND<2	FALSE
PH1-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-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE
PH1-GWC-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-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE
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

PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE

PH1-GWB-1	12/10/2019	ND<2	FALSE
PH1-GWB-1	6/24/2020	ND<2	FALSE
PH1-GWB-1	12/17/2020	ND<2	FALSE
PH1-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-GWC-3	12/12/2017	3.6	TRUE
PH1-GWC-3	6/19/2018	3.2	TRUE
PH1-GWC-3	12/18/2018	2.7	TRUE
PH1-GWC-3	6/10/2019	3.3	TRUE
PH1-GWC-3	12/9/2019	4	TRUE
PH1-GWC-3	6/22/2020	2.9	TRUE
PH1-GWC-3	12/15/2020	3.6	TRUE
PH1-GWC-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-3A	12/12/2017	2.6	TRUE
PH1-GWC-3A	6/19/2018	2.6	TRUE
PH1-GWC-3A	12/18/2018	2.3	TRUE
PH1-GWC-3A	6/10/2019	2.5	TRUE
PH1-GWC-3A	12/9/2019	3.1	TRUE
PH1-GWC-3A	6/26/2020	ND<2	FALSE
PH1-GWC-3A	12/15/2020	3	TRUE
PH1-GWC-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

GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE
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

PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase I

1,1-Dichloroethane

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-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	ND<2	FALSE
PH1-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-2	12/13/2017	ND<2	FALSE
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWA-2	12/9/2019	ND<2	FALSE
PH1-GWA-2	6/24/2020	ND<2	FALSE
PH1-GWA-2	12/15/2020	ND<2	FALSE
PH1-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-GWC-2	12/13/2017	3.4	TRUE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	2.8	TRUE
PH1-GWC-2	6/10/2019	3	TRUE
PH1-GWC-2	12/10/2019	3.7	TRUE
PH1-GWC-2	6/22/2020	3.1	TRUE
PH1-GWC-2	12/17/2020	3.8	TRUE
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

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 = 60.3896%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	2.6	TRUE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	ND<2	FALSE
PH1-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-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE
PH1-GWC-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-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE
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

PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

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-GWC-3	12/12/2017	15	TRUE
PH1-GWC-3	6/19/2018	15	TRUE
PH1-GWC-3	12/18/2018	15	TRUE
PH1-GWC-3	6/10/2019	19	TRUE
PH1-GWC-3	12/9/2019	27	TRUE
PH1-GWC-3	6/22/2020	20	TRUE
PH1-GWC-3	12/15/2020	26	TRUE
PH1-GWC-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-3A	12/12/2017	10	TRUE
PH1-GWC-3A	6/19/2018	12	TRUE
PH1-GWC-3A	12/18/2018	9.2	TRUE
PH1-GWC-3A	6/10/2019	11	TRUE
PH1-GWC-3A	12/9/2019	16	TRUE
PH1-GWC-3A	6/26/2020	14	TRUE
PH1-GWC-3A	12/15/2020	16	TRUE
PH1-GWC-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

GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE
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

PH1-GWA-1	12/13/2017	3.5	TRUE
PH1-GWA-1	6/19/2018	3.1	TRUE
PH1-GWA-1	12/18/2018	2.4	TRUE
PH1-GWA-1	6/10/2019	5.2	TRUE
PH1-GWA-1	12/9/2019	3.7	TRUE

Forsyth County - Hightower Road Landfill - Phase I

cis-1,2-Dichloroethene

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-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	ND<2	FALSE
PH1-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-2	12/13/2017	64	TRUE
PH1-GWA-2	6/18/2018	46	TRUE
PH1-GWA-2	12/18/2018	55	TRUE
PH1-GWA-2	6/11/2019	26	TRUE
PH1-GWA-2	12/9/2019	120	TRUE
PH1-GWA-2	6/24/2020	42	TRUE
PH1-GWA-2	12/15/2020	52	TRUE
PH1-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-GWC-2	12/13/2017	3.1	TRUE
PH1-GWC-2	6/19/2018	2.2	TRUE
PH1-GWC-2	12/18/2018	3.3	TRUE
PH1-GWC-2	6/10/2019	5.1	TRUE
PH1-GWC-2	12/10/2019	5.7	TRUE
PH1-GWC-2	6/22/2020	6	TRUE
PH1-GWC-2	12/17/2020	7.8	TRUE
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

**Non-Parametric Tolerance Interval**

**Parameter: Tetrachloroethene**

**Original Data (Not Transformed)**

**Non-Detects Replaced with Detection Limit**

Total Percent Non-Detects = 75.974%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

**Location Date Value Significant**

PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	ND<2	FALSE
PH1-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-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE
PH1-GWC-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-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE
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

PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE

PH1-GWB-1	12/10/2019	ND<2	FALSE
PH1-GWB-1	6/24/2020	ND<2	FALSE
PH1-GWB-1	12/17/2020	ND<2	FALSE
PH1-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-GWC-3	12/12/2017	13	TRUE
PH1-GWC-3	6/19/2018	11	TRUE
PH1-GWC-3	12/18/2018	10	TRUE
PH1-GWC-3	6/10/2019	11	TRUE
PH1-GWC-3	12/9/2019	13	TRUE
PH1-GWC-3	6/22/2020	9	TRUE
PH1-GWC-3	12/15/2020	9.1	TRUE
PH1-GWC-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-3A	12/12/2017	10	TRUE
PH1-GWC-3A	6/19/2018	11	TRUE
PH1-GWC-3A	12/18/2018	8.7	TRUE
PH1-GWC-3A	6/10/2019	8.8	TRUE
PH1-GWC-3A	12/9/2019	7.4	TRUE
PH1-GWC-3A	6/26/2020	ND<2	FALSE
PH1-GWC-3A	12/15/2020	5.7	TRUE
PH1-GWC-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

GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE
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

PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	2.1	TRUE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	ND<2	FALSE



Forsyth County - Hightower Road Landfill - Phase I

Tetrachloroethene

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-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	ND<2	FALSE
PH1-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

<b>PH1-GWA-2</b>	<b>12/13/2017</b>	<b>2.3</b>	<b>TRUE</b>
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
<b>PH1-GWA-2</b>	<b>12/9/2019</b>	<b>2.4</b>	<b>TRUE</b>
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

<b>PH1-GWC-2</b>	<b>12/13/2017</b>	<b>5.1</b>	<b>TRUE</b>
PH1-GWC-2	6/19/2018	ND<2	FALSE
<b>PH1-GWC-2</b>	<b>12/18/2018</b>	<b>5.1</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>6/10/2019</b>	<b>4.2</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>12/10/2019</b>	<b>6.3</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>6/22/2020</b>	<b>4.6</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>12/17/2020</b>	<b>5.3</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>6/17/2021</b>	<b>3.7</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>12/14/2021</b>	<b>2.9</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>6/8/2022</b>	<b>3.4</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>12/14/2022</b>	<b>4.4</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>6/22/2023</b>	<b>2.9</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

**Non-Parametric Tolerance Interval**

**Parameter: Trichloroethene**

**Original Data (Not Transformed)**

**Non-Detects Replaced with Detection Limit**

Total Percent Non-Detects = 71.4286%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE
PH1-GWB-2	12/17/2020	ND<2	FALSE
PH1-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-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE
PH1-GWC-1	12/17/2020	ND<2	FALSE
PH1-GWC-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-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE
PH1-GWC-4	12/17/2020	ND<2	FALSE
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

PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

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-GWC-3	12/12/2017	8.4	TRUE
PH1-GWC-3	6/19/2018	6.9	TRUE
PH1-GWC-3	12/18/2018	6.8	TRUE
PH1-GWC-3	6/10/2019	7.4	TRUE
PH1-GWC-3	12/9/2019	8.7	TRUE
PH1-GWC-3	6/22/2020	7.1	TRUE
PH1-GWC-3	12/15/2020	7.6	TRUE
PH1-GWC-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-3A	12/12/2017	6.6	TRUE
PH1-GWC-3A	6/19/2018	6.8	TRUE
PH1-GWC-3A	12/18/2018	5.8	TRUE
PH1-GWC-3A	6/10/2019	5.7	TRUE
PH1-GWC-3A	12/9/2019	8.4	TRUE
PH1-GWC-3A	6/26/2020	2.8	TRUE
PH1-GWC-3A	12/15/2020	8.1	TRUE
PH1-GWC-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

GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE
GWC-1	12/16/2020	ND<2	FALSE
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

PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	3.1	TRUE

Forsyth County - Hightower Road Landfill - Phase I

Trichloroethene

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-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE
PH1-GWA-1A	12/18/2020	ND<2	FALSE
PH1-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-2	12/13/2017	5.8	TRUE
PH1-GWA-2	6/18/2018	4.2	TRUE
PH1-GWA-2	12/18/2018	4	TRUE
PH1-GWA-2	6/11/2019	2.1	TRUE
PH1-GWA-2	12/9/2019	7.3	TRUE
PH1-GWA-2	6/24/2020	2.4	TRUE
PH1-GWA-2	12/15/2020	2.5	TRUE
PH1-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-GWC-2	12/13/2017	ND<2	FALSE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	2	FALSE
PH1-GWC-2	6/10/2019	2	FALSE
PH1-GWC-2	12/10/2019	2.6	TRUE
PH1-GWC-2	6/22/2020	2.1	TRUE
PH1-GWC-2	12/17/2020	2.5	TRUE
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

**Non-Parametric Tolerance Interval**

**Parameter: Barium**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 25.974%

Background measurements (n) = 24

Maximum Background Concentration = 37

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWB-2	12/12/2017	ND<20	FALSE
PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	22	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWB-2	12/13/2019	ND<20	FALSE
PH1-GWB-2	6/25/2020	ND<20	FALSE
PH1-GWB-2	12/18/2020	ND<20	FALSE
PH1-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	FALSE
<hr/>			
PH1-GWC-1	12/12/2017	38	TRUE
PH1-GWC-1	6/20/2018	42	TRUE
PH1-GWC-1	12/20/2018	47	TRUE
PH1-GWC-1	6/13/2019	50	TRUE
PH1-GWC-1	12/12/2019	43.7	TRUE
PH1-GWC-1	6/23/2020	42.8	TRUE
PH1-GWC-1	12/18/2020	32.1	FALSE
PH1-GWC-1	6/17/2021	42.1	TRUE
PH1-GWC-1	12/16/2021	30.6	FALSE
PH1-GWC-1	6/10/2022	42	TRUE
PH1-GWC-1	12/15/2022	34.3	FALSE
PH1-GWC-1	6/20/2023	39.9	TRUE
<hr/>			
PH1-GWC-4	12/12/2017	54	TRUE
PH1-GWC-4	6/20/2018	34	FALSE
PH1-GWC-4	12/20/2018	310	TRUE
PH1-GWC-4	6/13/2019	32	FALSE
PH1-GWC-4	6/23/2020	25.2	FALSE
PH1-GWC-4	12/18/2020	56.4	TRUE
PH1-GWC-4	6/17/2021	33	FALSE
PH1-GWC-4	12/16/2021	41.3	TRUE
PH1-GWC-4	6/7/2022	26.6	FALSE
PH1-GWC-4	6/20/2023	22.6	FALSE
<hr/>			
PH1-GWA-1A	12/13/2017	27	FALSE
PH1-GWA-1A	6/20/2018	25	FALSE
PH1-GWA-1A	12/19/2018	27	FALSE
PH1-GWA-1A	6/11/2019	24	FALSE

PH1-GWA-1A	12/10/2019	23.4	FALSE
PH1-GWA-1A	6/22/2020	21.7	FALSE
PH1-GWA-1A	12/18/2020	27.4	FALSE
PH1-GWA-1A	6/16/2021	24.8	FALSE
PH1-GWA-1A	12/14/2021	22.6	FALSE
PH1-GWA-1A	6/8/2022	25.9	FALSE
PH1-GWA-1A	12/15/2022	35.1	FALSE
PH1-GWA-1A	6/22/2023	25.4	FALSE
<hr/>			
PH1-GWB-1	12/13/2017	54	TRUE
PH1-GWB-1	6/19/2018	62	TRUE
PH1-GWB-1	12/18/2018	53	TRUE
PH1-GWB-1	6/12/2019	82	TRUE
PH1-GWB-1	12/11/2019	67	TRUE
PH1-GWB-1	6/25/2020	79.3	TRUE
PH1-GWB-1	12/18/2020	50.5	TRUE
PH1-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
<hr/>			
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	26	FALSE
PH1-GWC-2	6/10/2019	39	TRUE
PH1-GWC-2	12/10/2019	ND<20	FALSE
PH1-GWC-2	6/22/2020	33.6	FALSE
PH1-GWC-2	12/17/2020	ND<20	FALSE
PH1-GWC-2	6/17/2021	20.6	FALSE
PH1-GWC-2	12/17/2021	ND<20	FALSE
PH1-GWC-2	6/8/2022	20.9	FALSE
PH1-GWC-2	12/14/2022	24.7	FALSE
PH1-GWC-2	6/22/2023	48.5	TRUE
<hr/>			
PH1-GWC-3	12/13/2017	27	FALSE
PH1-GWC-3	6/20/2018	23	FALSE
PH1-GWC-3	12/19/2018	27	FALSE
PH1-GWC-3	6/11/2019	30	FALSE
PH1-GWC-3	12/10/2019	24.7	FALSE
PH1-GWC-3	6/23/2020	23.6	FALSE
PH1-GWC-3	12/16/2020	25.6	FALSE
PH1-GWC-3	6/15/2021	24.3	FALSE
PH1-GWC-3	12/15/2021	28.8	FALSE
PH1-GWC-3	6/8/2022	25.5	FALSE
PH1-GWC-3	12/15/2022	29.2	FALSE
PH1-GWC-3	6/22/2023	27.6	FALSE
<hr/>			
PH1-GWC-3A	12/13/2017	27	FALSE
PH1-GWC-3A	6/28/2018	26	FALSE
PH1-GWC-3A	12/19/2018	24	FALSE
PH1-GWC-3A	6/11/2019	30	FALSE
PH1-GWC-3A	12/10/2019	24.9	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Barium

PH1-GWC-3A	6/23/2020	23.9	FALSE
PH1-GWC-3A	12/16/2020	25.9	FALSE
PH1-GWC-3A	6/15/2021	30.5	FALSE
PH1-GWC-3A	12/15/2021	28.5	FALSE
PH1-GWC-3A	6/8/2022	30.1	FALSE
PH1-GWC-3A	12/15/2022	28.2	FALSE
PH1-GWC-3A	6/22/2023	26.9	FALSE

GWC-1	12/14/2017	88	TRUE
GWC-1	6/20/2018	94	TRUE
GWC-1	12/18/2018	150	TRUE
GWC-1	6/13/2019	93	TRUE
GWC-1	12/11/2019	85.2	TRUE
GWC-1	6/23/2020	95.3	TRUE
GWC-1	12/17/2020	81.1	TRUE
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

PH1-GWA-1	12/14/2017	20	FALSE
PH1-GWA-1	6/20/2018	34	FALSE
PH1-GWA-1	12/19/2018	24	FALSE
PH1-GWA-1	6/11/2019	24	FALSE
PH1-GWA-1	12/10/2019	20.3	FALSE
PH1-GWA-1	6/23/2020	27.7	FALSE
PH1-GWA-1	12/16/2020	ND<20	FALSE
PH1-GWA-1	6/16/2021	28.7	FALSE
PH1-GWA-1	12/14/2021	22.8	FALSE
PH1-GWA-1	6/9/2022	25.3	FALSE
PH1-GWA-1	12/15/2022	ND<20	FALSE
PH1-GWA-1	6/21/2023	24.6	FALSE

PH1-GWA-2	12/14/2017	80	TRUE
PH1-GWA-2	6/19/2018	61	TRUE
PH1-GWA-2	12/19/2018	81	TRUE
PH1-GWA-2	6/12/2019	84	TRUE
PH1-GWA-2	12/10/2019	84.2	TRUE
PH1-GWA-2	6/25/2020	64.6	TRUE
PH1-GWA-2	12/16/2020	65.5	TRUE
PH1-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

Forsyth County - Hightower Road Landfill - Phase I

Chromium

Non-Parametric Tolerance Interval

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.5065%

Background measurements (n) = 24

Maximum Background Concentration = 10

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWB-2	12/12/2017	ND<10	FALSE
PH1-GWB-2	6/20/2018	ND<10	FALSE
PH1-GWB-2	12/18/2018	ND<10	FALSE
PH1-GWB-2	6/13/2019	ND<10	FALSE
PH1-GWB-2	12/13/2019	ND<10	FALSE
PH1-GWB-2	6/25/2020	ND<10	FALSE
PH1-GWB-2	12/18/2020	ND<10	FALSE
PH1-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-GWC-1	12/12/2017	ND<10	FALSE
PH1-GWC-1	6/20/2018	ND<10	FALSE
PH1-GWC-1	12/20/2018	ND<10	FALSE
PH1-GWC-1	6/13/2019	ND<10	FALSE
PH1-GWC-1	12/12/2019	ND<10	FALSE
PH1-GWC-1	6/23/2020	ND<10	FALSE
PH1-GWC-1	12/18/2020	ND<10	FALSE
PH1-GWC-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-4	12/12/2017	ND<10	FALSE
PH1-GWC-4	6/20/2018	ND<10	FALSE
PH1-GWC-4	12/20/2018	49	TRUE
PH1-GWC-4	6/13/2019	ND<10	FALSE
PH1-GWC-4	6/23/2020	ND<10	FALSE
PH1-GWC-4	12/18/2020	ND<10	FALSE
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-GWA-1A	12/13/2017	ND<10	FALSE
PH1-GWA-1A	6/20/2018	ND<10	FALSE
PH1-GWA-1A	12/19/2018	ND<10	FALSE
PH1-GWA-1A	6/11/2019	11	TRUE

Forsyth County - Hightower Road Landfill - Phase I

Chromium

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
<b>PH1-GWA-1A</b>	<b>6/8/2022</b>	<b>19.9</b>	<b>TRUE</b>
<b>PH1-GWA-1A</b>	<b>12/15/2022</b>	<b>17.2</b>	<b>TRUE</b>
PH1-GWA-1A	6/22/2023	ND<10	FALSE

PH1-GWB-1	12/13/2017	ND<10	FALSE
PH1-GWB-1	6/19/2018	ND<10	FALSE
PH1-GWB-1	12/18/2018	ND<10	FALSE
PH1-GWB-1	6/12/2019	ND<10	FALSE
PH1-GWB-1	12/11/2019	ND<10	FALSE
PH1-GWB-1	6/25/2020	ND<10	FALSE
PH1-GWB-1	12/18/2020	ND<10	FALSE
PH1-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-GWC-2	12/13/2017	ND<10	FALSE
<b>PH1-GWC-2</b>	<b>6/19/2018</b>	<b>12</b>	<b>TRUE</b>
PH1-GWC-2	12/18/2018	ND<10	FALSE
<b>PH1-GWC-2</b>	<b>6/10/2019</b>	<b>69</b>	<b>TRUE</b>
PH1-GWC-2	12/10/2019	ND<10	FALSE
<b>PH1-GWC-2</b>	<b>6/22/2020</b>	<b>27.2</b>	<b>TRUE</b>
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
<b>PH1-GWC-2</b>	<b>6/8/2022</b>	<b>15.7</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>12/14/2022</b>	<b>11.5</b>	<b>TRUE</b>
<b>PH1-GWC-2</b>	<b>6/22/2023</b>	<b>37</b>	<b>TRUE</b>

PH1-GWC-3	12/13/2017	ND<10	FALSE
PH1-GWC-3	6/20/2018	ND<10	FALSE
PH1-GWC-3	12/19/2018	ND<10	FALSE
PH1-GWC-3	6/11/2019	ND<10	FALSE
PH1-GWC-3	12/10/2019	ND<10	FALSE
PH1-GWC-3	6/23/2020	ND<10	FALSE
PH1-GWC-3	12/16/2020	ND<10	FALSE
PH1-GWC-3	6/15/2021	ND<10	FALSE
PH1-GWC-3	12/15/2021	ND<10	FALSE
<b>PH1-GWC-3</b>	<b>6/8/2022</b>	<b>ND&lt;20</b>	<b>TRUE</b>
PH1-GWC-3	12/15/2022	ND<10	FALSE
PH1-GWC-3	6/22/2023	ND<10	FALSE

PH1-GWC-3A	12/13/2017	ND<10	FALSE
PH1-GWC-3A	6/28/2018	ND<10	FALSE
PH1-GWC-3A	12/19/2018	ND<10	FALSE
PH1-GWC-3A	6/11/2019	ND<10	FALSE
PH1-GWC-3A	12/10/2019	ND<10	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Chromium

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
<b>PH1-GWC-3A</b>	<b>6/8/2022</b>	<b>ND&lt;20</b>	<b>TRUE</b>
PH1-GWC-3A	12/15/2022	ND<10	FALSE
PH1-GWC-3A	6/22/2023	ND<10	FALSE

GWC-1	12/14/2017	ND<10	FALSE
GWC-1	6/20/2018	ND<10	FALSE
GWC-1	12/18/2018	ND<10	FALSE
GWC-1	6/13/2019	ND<10	FALSE
GWC-1	12/11/2019	ND<10	FALSE
GWC-1	6/23/2020	ND<10	FALSE
GWC-1	12/17/2020	ND<10	FALSE
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

PH1-GWA-1	12/14/2017	ND<10	FALSE
PH1-GWA-1	6/20/2018	ND<10	FALSE
PH1-GWA-1	12/19/2018	ND<10	FALSE
PH1-GWA-1	6/11/2019	ND<10	FALSE
PH1-GWA-1	12/10/2019	ND<10	FALSE
PH1-GWA-1	6/23/2020	ND<10	FALSE
PH1-GWA-1	12/16/2020	ND<10	FALSE
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-2	12/14/2017	ND<10	FALSE
PH1-GWA-2	6/19/2018	ND<10	FALSE
PH1-GWA-2	12/19/2018	ND<10	FALSE
PH1-GWA-2	6/12/2019	ND<10	FALSE
PH1-GWA-2	12/10/2019	ND<10	FALSE
PH1-GWA-2	6/25/2020	ND<10	FALSE
PH1-GWA-2	12/16/2020	ND<10	FALSE
PH1-GWA-2	6/17/2021	ND<10	FALSE
PH1-GWA-2	12/15/2021	ND<10	FALSE
<b>PH1-GWA-2</b>	<b>6/8/2022</b>	<b>ND&lt;20</b>	<b>TRUE</b>
PH1-GWA-2	12/15/2022	ND<10	FALSE
PH1-GWA-2	6/22/2023	ND<10	FALSE

**Non-Parametric Tolerance Interval**

**Parameter: Cobalt**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.2078%  
 Background measurements (n) = 24  
 Maximum Background Concentration = 40  
 Minimum Coverage = 88.3%  
 Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWB-2	12/12/2017	ND<40	FALSE
PH1-GWB-2	6/20/2018	ND<40	FALSE
PH1-GWB-2	12/18/2018	ND<40	FALSE
PH1-GWB-2	6/13/2019	ND<40	FALSE
PH1-GWB-2	12/13/2019	ND<40	FALSE
PH1-GWB-2	6/25/2020	ND<40	FALSE
PH1-GWB-2	12/18/2020	ND<40	FALSE
PH1-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
<hr/>			
PH1-GWC-1	12/12/2017	ND<40	FALSE
PH1-GWC-1	6/20/2018	ND<40	FALSE
PH1-GWC-1	12/20/2018	ND<40	FALSE
PH1-GWC-1	6/13/2019	ND<40	FALSE
PH1-GWC-1	12/12/2019	ND<40	FALSE
PH1-GWC-1	6/23/2020	ND<40	FALSE
PH1-GWC-1	12/18/2020	ND<40	FALSE
PH1-GWC-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
<hr/>			
PH1-GWC-4	12/12/2017	ND<40	FALSE
PH1-GWC-4	6/20/2018	ND<40	FALSE
PH1-GWC-4	12/20/2018	ND<40	FALSE
PH1-GWC-4	6/13/2019	ND<40	FALSE
PH1-GWC-4	6/23/2020	ND<40	FALSE
PH1-GWC-4	12/18/2020	ND<40	FALSE
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
<hr/>			
PH1-GWA-1A	12/13/2017	ND<40	FALSE
PH1-GWA-1A	6/20/2018	ND<40	FALSE
PH1-GWA-1A	12/19/2018	ND<40	FALSE
PH1-GWA-1A	6/11/2019	ND<40	FALSE

PH1-GWA-1A	12/10/2019	ND<40	FALSE
PH1-GWA-1A	6/22/2020	ND<40	FALSE
PH1-GWA-1A	12/18/2020	ND<40	FALSE
PH1-GWA-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
<hr/>			
PH1-GWB-1	12/13/2017	ND<40	FALSE
PH1-GWB-1	6/19/2018	ND<40	FALSE
PH1-GWB-1	12/18/2018	ND<40	FALSE
PH1-GWB-1	6/12/2019	ND<40	FALSE
PH1-GWB-1	12/11/2019	ND<40	FALSE
PH1-GWB-1	6/25/2020	ND<40	FALSE
PH1-GWB-1	12/18/2020	ND<40	FALSE
PH1-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
<hr/>			
PH1-GWC-2	12/13/2017	ND<40	FALSE
PH1-GWC-2	6/19/2018	ND<40	FALSE
PH1-GWC-2	12/18/2018	ND<40	FALSE
PH1-GWC-2	6/10/2019	ND<40	FALSE
PH1-GWC-2	12/10/2019	ND<40	FALSE
PH1-GWC-2	6/22/2020	ND<40	FALSE
PH1-GWC-2	12/17/2020	ND<40	FALSE
PH1-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
<hr/>			
PH1-GWC-3	12/13/2017	ND<40	FALSE
PH1-GWC-3	6/20/2018	ND<40	FALSE
PH1-GWC-3	12/19/2018	ND<40	FALSE
PH1-GWC-3	6/11/2019	ND<40	FALSE
PH1-GWC-3	12/10/2019	ND<40	FALSE
PH1-GWC-3	6/23/2020	ND<40	FALSE
PH1-GWC-3	12/16/2020	ND<40	FALSE
PH1-GWC-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
<hr/>			
PH1-GWC-3A	12/13/2017	ND<40	FALSE
PH1-GWC-3A	6/28/2018	ND<40	FALSE
PH1-GWC-3A	12/19/2018	ND<40	FALSE
PH1-GWC-3A	6/11/2019	ND<40	FALSE
PH1-GWC-3A	12/10/2019	ND<40	FALSE

PH1-GWC-3A	6/23/2020	ND<40	FALSE
PH1-GWC-3A	12/16/2020	ND<40	FALSE
PH1-GWC-3A	6/15/2021	ND<40	FALSE
PH1-GWC-3A	12/15/2021	ND<40	FALSE
<b>PH1-GWC-3A</b>	<b>6/8/2022</b>	<b>ND&lt;50</b>	<b>TRUE</b>
PH1-GWC-3A	12/15/2022	ND<40	FALSE
PH1-GWC-3A	6/22/2023	ND<40	FALSE

GWC-1	12/14/2017	ND<40	FALSE
GWC-1	6/20/2018	ND<40	FALSE
GWC-1	12/18/2018	ND<40	FALSE
GWC-1	6/13/2019	ND<40	FALSE
GWC-1	12/11/2019	ND<40	FALSE
GWC-1	6/23/2020	ND<40	FALSE
GWC-1	12/17/2020	ND<40	FALSE
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

<b>PH1-GWA-1</b>	<b>12/14/2017</b>	<b>76</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/20/2018</b>	<b>75</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/19/2018</b>	<b>82</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/11/2019</b>	<b>91</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/10/2019</b>	<b>90.1</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/23/2020</b>	<b>76.6</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/16/2020</b>	<b>95.6</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/16/2021</b>	<b>83.5</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/14/2021</b>	<b>111</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/9/2022</b>	<b>74.7</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/15/2022</b>	<b>94.7</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/21/2023</b>	<b>67.2</b>	<b>TRUE</b>

PH1-GWA-2	12/14/2017	ND<40	FALSE
PH1-GWA-2	6/19/2018	ND<40	FALSE
PH1-GWA-2	12/19/2018	ND<40	FALSE
PH1-GWA-2	6/12/2019	ND<40	FALSE
PH1-GWA-2	12/10/2019	ND<40	FALSE
PH1-GWA-2	6/25/2020	ND<40	FALSE
PH1-GWA-2	12/16/2020	ND<40	FALSE
PH1-GWA-2	6/17/2021	ND<40	FALSE
PH1-GWA-2	12/15/2021	ND<40	FALSE
<b>PH1-GWA-2</b>	<b>6/8/2022</b>	<b>ND&lt;50</b>	<b>TRUE</b>
PH1-GWA-2	12/15/2022	ND<40	FALSE
PH1-GWA-2	6/22/2023	ND<40	FALSE

**Non-Parametric Tolerance Interval**

**Parameter: Nickel**

**Original Data (Not Transformed)**

**Non-Detects Replaced with Detection Limit**

Total Percent Non-Detects = 98.0519%

Background measurements (n) = 24

Maximum Background Concentration = 20

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWB-2	12/12/2017	ND<20	FALSE
PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	ND<20	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWB-2	12/13/2019	ND<20	FALSE
PH1-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-GWC-1	12/12/2017	ND<20	FALSE
PH1-GWC-1	6/20/2018	ND<20	FALSE
PH1-GWC-1	12/20/2018	ND<20	FALSE
PH1-GWC-1	6/13/2019	ND<20	FALSE
PH1-GWC-1	12/12/2019	ND<20	FALSE
PH1-GWC-1	6/23/2020	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-4	12/12/2017	ND<20	FALSE
PH1-GWC-4	6/20/2018	ND<20	FALSE
<b>PH1-GWC-4</b>	<b>12/20/2018</b>	<b>31</b>	<b>TRUE</b>
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-GWA-1A	12/13/2017	ND<20	FALSE
PH1-GWA-1A	6/20/2018	ND<20	FALSE
PH1-GWA-1A	12/19/2018	ND<20	FALSE
PH1-GWA-1A	6/11/2019	ND<20	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Nickel

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-GWB-1	12/13/2017	ND<20	FALSE
PH1-GWB-1	6/19/2018	ND<20	FALSE
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	6/12/2019	ND<20	FALSE
PH1-GWB-1	12/11/2019	ND<20	FALSE
PH1-GWB-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-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	6/10/2019	51	TRUE
PH1-GWC-2	12/10/2019	ND<20	FALSE
PH1-GWC-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-3	12/13/2017	ND<20	FALSE
PH1-GWC-3	6/20/2018	ND<20	FALSE
PH1-GWC-3	12/19/2018	ND<20	FALSE
PH1-GWC-3	6/11/2019	ND<20	FALSE
PH1-GWC-3	12/10/2019	ND<20	FALSE
PH1-GWC-3	6/23/2020	ND<20	FALSE
PH1-GWC-3	12/16/2020	ND<20	FALSE
PH1-GWC-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-3A	12/13/2017	ND<20	FALSE
PH1-GWC-3A	6/28/2018	ND<20	FALSE
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/10/2019	ND<20	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Nickel

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

GWC-1	12/14/2017	ND<20	FALSE
GWC-1	6/20/2018	ND<20	FALSE
GWC-1	12/18/2018	ND<20	FALSE
GWC-1	6/13/2019	ND<20	FALSE
GWC-1	12/11/2019	ND<20	FALSE
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

PH1-GWA-1	12/14/2017	ND<20	FALSE
PH1-GWA-1	6/20/2018	ND<20	FALSE
PH1-GWA-1	12/19/2018	ND<20	FALSE
PH1-GWA-1	6/11/2019	ND<20	FALSE
PH1-GWA-1	12/10/2019	ND<20	FALSE
PH1-GWA-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-2	12/14/2017	ND<20	FALSE
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	12/19/2018	ND<20	FALSE
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWA-2	12/10/2019	ND<20	FALSE
PH1-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



**Non-Parametric Tolerance Interval**

**Parameter: Zinc**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70.7792%

Background measurements (n) = 24

Maximum Background Concentration = 48.9

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWB-2	12/12/2017	25	FALSE
PH1-GWB-2	6/20/2018	31	FALSE
PH1-GWB-2	12/18/2018	28	FALSE
PH1-GWB-2	6/13/2019	33	FALSE
PH1-GWB-2	12/13/2019	38.3	FALSE
PH1-GWB-2	6/25/2020	25.4	FALSE
PH1-GWB-2	12/18/2020	21.6	FALSE
PH1-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
<b>PH1-GWB-2</b>	<b>12/13/2022</b>	<b>62.9</b>	<b>TRUE</b>
PH1-GWB-2	6/21/2023	29	FALSE
<hr/>			
PH1-GWC-1	12/12/2017	ND<20	FALSE
PH1-GWC-1	6/20/2018	ND<20	FALSE
PH1-GWC-1	12/20/2018	ND<20	FALSE
PH1-GWC-1	6/13/2019	ND<20	FALSE
PH1-GWC-1	12/12/2019	ND<20	FALSE
PH1-GWC-1	6/23/2020	32.5	FALSE
PH1-GWC-1	12/18/2020	ND<20	FALSE
PH1-GWC-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
<hr/>			
PH1-GWC-4	12/12/2017	28	FALSE
PH1-GWC-4	6/20/2018	ND<20	FALSE
<b>PH1-GWC-4</b>	<b>12/20/2018</b>	<b>120</b>	<b>TRUE</b>
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
<hr/>			
PH1-GWA-1A	12/13/2017	ND<20	FALSE
PH1-GWA-1A	6/20/2018	ND<20	FALSE
PH1-GWA-1A	12/19/2018	ND<20	FALSE
PH1-GWA-1A	6/11/2019	ND<20	FALSE

PH1-GWA-1A	12/10/2019	ND<20	FALSE
PH1-GWA-1A	6/22/2020	ND<20	FALSE
PH1-GWA-1A	12/18/2020	ND<20	FALSE
PH1-GWA-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
<hr/>			
PH1-GWB-1	12/13/2017	ND<20	FALSE
PH1-GWB-1	6/19/2018	39	FALSE
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	6/12/2019	22	FALSE
PH1-GWB-1	12/11/2019	38.2	FALSE
PH1-GWB-1	6/25/2020	26.8	FALSE
PH1-GWB-1	12/18/2020	ND<20	FALSE
PH1-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
<hr/>			
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	6/10/2019	26	FALSE
PH1-GWC-2	12/10/2019	ND<20	FALSE
PH1-GWC-2	6/22/2020	ND<20	FALSE
PH1-GWC-2	12/17/2020	ND<20	FALSE
PH1-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
<hr/>			
PH1-GWC-3	12/13/2017	ND<20	FALSE
PH1-GWC-3	6/20/2018	ND<20	FALSE
PH1-GWC-3	12/19/2018	ND<20	FALSE
PH1-GWC-3	6/11/2019	ND<20	FALSE
PH1-GWC-3	12/10/2019	ND<20	FALSE
PH1-GWC-3	6/23/2020	ND<20	FALSE
PH1-GWC-3	12/16/2020	ND<20	FALSE
PH1-GWC-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
<hr/>			
PH1-GWC-3A	12/13/2017	ND<20	FALSE
PH1-GWC-3A	6/28/2018	21	FALSE
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/10/2019	ND<20	FALSE

Forsyth County - Hightower Road Landfill - Phase I

Zinc

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

GWC-1	12/14/2017	ND<20	FALSE
GWC-1	6/20/2018	20	FALSE
GWC-1	12/18/2018	ND<20	FALSE
GWC-1	6/13/2019	ND<20	FALSE
GWC-1	12/11/2019	27.1	FALSE
<b>GWC-1</b>	<b>6/23/2020</b>	<b>55.4</b>	<b>TRUE</b>
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

<b>PH1-GWA-1</b>	<b>12/14/2017</b>	<b>51</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/20/2018</b>	<b>55</b>	<b>TRUE</b>
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-2	12/14/2017	ND<20	FALSE
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	12/19/2018	29	FALSE
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWA-2	12/10/2019	ND<20	FALSE
PH1-GWA-2	6/25/2020	ND<20	FALSE
PH1-GWA-2	12/16/2020	ND<20	FALSE
PH1-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

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 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-22	FALSE	96.15%
1,1-Dichloroethane	GWC-23	FALSE	96.15%
1,1-Dichloroethane	GWC-23A	FALSE	96.15%
1,1-Dichloroethane	GWC-10	FALSE	96.15%
1,1-Dichloroethane	GWC-10A	FALSE	96.15%
1,1-Dichloroethane	GWC-13	FALSE	96.15%
1,1-Dichloroethane	GWC-14A	<b>TRUE</b>	96.15%
1,1-Dichloroethane	GWC-14R	<b>TRUE</b>	96.15%
1,1-Dichloroethane	GWC-17	FALSE	96.15%
1,1-Dichloroethane	GWC-3A	FALSE	96.15%
1,1-Dichloroethane	GWC-4A	FALSE	96.15%
1,1-Dichloroethane	GWC-5	FALSE	96.15%
1,1-Dichloroethane	GWC-7	FALSE	96.15%
1,1-Dichloroethane	GWC-8	FALSE	96.15%
1,1-Dichloroethane	GWC-8A	FALSE	96.15%
1,1-Dichloroethane	GWC-8R	<b>TRUE</b>	96.15%
1,1-Dichloroethane	GWC-16A	FALSE	96.15%
1,1-Dichloroethane	GWA-1A	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-15	FALSE	96.15%
1,1-Dichloroethane	GWC-18	FALSE	96.15%
1,1-Dichloroethane	GWC-19R	FALSE	96.15%
1,1-Dichloroethane	GWC-2	FALSE	96.15%
1,1-Dichloroethane	GWC-24	FALSE	96.15%
1,1-Dichloroethane	GWC-6	FALSE	96.15%
1,1-Dichloroethane	GWC-9	FALSE	96.15%
1,1-Dichloroethane	GWC-14	FALSE	96.15%
1,1-Dichloroethane	GWC-4	FALSE	96.15%
1,1-Dichloroethane	GWC-3	FALSE	96.15%
Benzene	GWA-3	FALSE	96.15%
Benzene	GWC-22	FALSE	96.15%
Benzene	GWC-23	FALSE	96.15%
Benzene	GWC-23A	FALSE	96.15%
Benzene	GWC-10	FALSE	96.15%
Benzene	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  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-13	FALSE	96.15%
Benzene	GWC-14A	<b>TRUE</b>	96.15%
Benzene	GWC-14R	FALSE	96.15%
Benzene	GWC-17	FALSE	96.15%
Benzene	GWC-3A	FALSE	96.15%
Benzene	GWC-4A	FALSE	96.15%
Benzene	GWC-5	FALSE	96.15%
Benzene	GWC-7	FALSE	96.15%
Benzene	GWC-8	FALSE	96.15%
Benzene	GWC-8A	FALSE	96.15%
Benzene	GWC-8R	FALSE	96.15%
Benzene	GWC-16A	FALSE	96.15%
Benzene	GWA-1A	FALSE	96.15%
Benzene	GWC-11	FALSE	96.15%
Benzene	GWC-12	FALSE	96.15%
Benzene	GWC-12A	FALSE	96.15%
Benzene	GWC-15	FALSE	96.15%
Benzene	GWC-18	FALSE	96.15%
Benzene	GWC-19R	FALSE	96.15%
Benzene	GWC-2	FALSE	96.15%
Benzene	GWC-24	FALSE	96.15%
Benzene	GWC-6	FALSE	96.15%
Benzene	GWC-9	FALSE	96.15%
Benzene	GWC-14	FALSE	96.15%
Benzene	GWC-4	FALSE	96.15%
Benzene	GWC-3	FALSE	96.15%
Chlorobenzene	GWA-3	FALSE	96.15%
Chlorobenzene	GWC-22	FALSE	96.15%
Chlorobenzene	GWC-23	FALSE	96.15%
Chlorobenzene	GWC-23A	FALSE	96.15%
Chlorobenzene	GWC-10	FALSE	96.15%
Chlorobenzene	GWC-10A	FALSE	96.15%
Chlorobenzene	GWC-13	FALSE	96.15%
Chlorobenzene	GWC-14A	<b>TRUE</b>	96.15%
Chlorobenzene	GWC-14R	FALSE	96.15%
Chlorobenzene	GWC-17	FALSE	96.15%
Chlorobenzene	GWC-3A	FALSE	96.15%
Chlorobenzene	GWC-4A	FALSE	96.15%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-5	FALSE	96.15%
Chlorobenzene	GWC-7	FALSE	96.15%
Chlorobenzene	GWC-8	FALSE	96.15%
Chlorobenzene	GWC-8A	FALSE	96.15%
Chlorobenzene	GWC-8R	FALSE	96.15%
Chlorobenzene	GWC-16A	FALSE	96.15%
Chlorobenzene	GWA-1A	FALSE	96.15%
Chlorobenzene	GWC-11	FALSE	96.15%
Chlorobenzene	GWC-12	FALSE	96.15%
Chlorobenzene	GWC-12A	FALSE	96.15%
Chlorobenzene	GWC-15	FALSE	96.15%
Chlorobenzene	GWC-18	FALSE	96.15%
Chlorobenzene	GWC-19R	FALSE	96.15%
Chlorobenzene	GWC-2	FALSE	96.15%
Chlorobenzene	GWC-24	FALSE	96.15%
Chlorobenzene	GWC-6	FALSE	96.15%
Chlorobenzene	GWC-9	FALSE	96.15%
Chlorobenzene	GWC-14	FALSE	96.15%
Chlorobenzene	GWC-4	FALSE	96.15%
Chlorobenzene	GWC-3	FALSE	96.15%
Chloroethane	GWA-3	FALSE	96.15%
Chloroethane	GWC-22	FALSE	96.15%
Chloroethane	GWC-23	FALSE	96.15%
Chloroethane	GWC-23A	FALSE	96.15%
Chloroethane	GWC-10	FALSE	96.15%
Chloroethane	GWC-10A	FALSE	96.15%
Chloroethane	GWC-13	FALSE	96.15%
Chloroethane	GWC-14A	<b>TRUE</b>	96.15%
Chloroethane	GWC-14R	FALSE	96.15%
Chloroethane	GWC-17	FALSE	96.15%
Chloroethane	GWC-3A	FALSE	96.15%
Chloroethane	GWC-4A	FALSE	96.15%
Chloroethane	GWC-5	FALSE	96.15%
Chloroethane	GWC-7	FALSE	96.15%
Chloroethane	GWC-8	FALSE	96.15%
Chloroethane	GWC-8A	FALSE	96.15%
Chloroethane	GWC-8R	FALSE	96.15%
Chloroethane	GWC-16A	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  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWA-1A	FALSE	96.15%
Chloroethane	GWC-11	FALSE	96.15%
Chloroethane	GWC-12	FALSE	96.15%
Chloroethane	GWC-12A	FALSE	96.15%
Chloroethane	GWC-15	FALSE	96.15%
Chloroethane	GWC-18	FALSE	96.15%
Chloroethane	GWC-19R	FALSE	96.15%
Chloroethane	GWC-2	FALSE	96.15%
Chloroethane	GWC-24	FALSE	96.15%
Chloroethane	GWC-6	FALSE	96.15%
Chloroethane	GWC-9	FALSE	96.15%
Chloroethane	GWC-14	FALSE	96.15%
Chloroethane	GWC-4	FALSE	96.15%
Chloroethane	GWC-3	FALSE	96.15%
cis-1,2-Dichloroethene	GWA-3	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-22	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	GWC-10	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-10A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-13	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-14A	<b>TRUE</b>	96.15%
cis-1,2-Dichloroethene	GWC-14R	<b>TRUE</b>	96.15%
cis-1,2-Dichloroethene	GWC-17	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-3A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-4A	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-5	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-7	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-8	Passed KW	96.15%
cis-1,2-Dichloroethene	GWC-8A	<b>TRUE</b>	96.15%
cis-1,2-Dichloroethene	GWC-8R	<b>TRUE</b>	96.15%
cis-1,2-Dichloroethene	GWC-16A	Passed KW	96.15%
cis-1,2-Dichloroethene	GWA-1A	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-15	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-18	<b>TRUE</b>	96.15%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-19R	TRUE	96.15%
cis-1,2-Dichloroethene	GWC-2	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-24	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-6	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-9	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-14	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-4	FALSE	96.15%
cis-1,2-Dichloroethene	GWC-3	FALSE	96.15%
Tetrachloroethene	GWA-3	FALSE	96.15%
Tetrachloroethene	GWC-22	FALSE	96.15%
Tetrachloroethene	GWC-23	FALSE	96.15%
Tetrachloroethene	GWC-23A	FALSE	96.15%
Tetrachloroethene	GWC-10	FALSE	96.15%
Tetrachloroethene	GWC-10A	FALSE	96.15%
Tetrachloroethene	GWC-13	FALSE	96.15%
Tetrachloroethene	GWC-14A	FALSE	96.15%
Tetrachloroethene	GWC-14R	FALSE	96.15%
Tetrachloroethene	GWC-17	FALSE	96.15%
Tetrachloroethene	GWC-3A	FALSE	96.15%
Tetrachloroethene	GWC-4A	FALSE	96.15%
Tetrachloroethene	GWC-5	FALSE	96.15%
Tetrachloroethene	GWC-7	FALSE	96.15%
Tetrachloroethene	GWC-8	FALSE	96.15%
Tetrachloroethene	GWC-8A	FALSE	96.15%
Tetrachloroethene	GWC-8R	FALSE	96.15%
Tetrachloroethene	GWC-16A	Passed KW	96.15%
Tetrachloroethene	GWA-1A	FALSE	96.15%
Tetrachloroethene	GWC-11	FALSE	96.15%
Tetrachloroethene	GWC-12	FALSE	96.15%
Tetrachloroethene	GWC-12A	FALSE	96.15%
Tetrachloroethene	GWC-15	FALSE	96.15%
Tetrachloroethene	GWC-18	TRUE	96.15%
Tetrachloroethene	GWC-19R	FALSE	96.15%
Tetrachloroethene	GWC-2	FALSE	96.15%
Tetrachloroethene	GWC-24	FALSE	96.15%
Tetrachloroethene	GWC-6	FALSE	96.15%
Tetrachloroethene	GWC-9	FALSE	96.15%
Tetrachloroethene	GWC-14	FALSE	96.15%

Notes:

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3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-4	FALSE	96.15%
Tetrachloroethene	GWC-3	FALSE	96.15%
Trichloroethene	GWA-3	FALSE	96.15%
Trichloroethene	GWC-22	FALSE	96.15%
Trichloroethene	GWC-23	FALSE	96.15%
Trichloroethene	GWC-23A	FALSE	96.15%
Trichloroethene	GWC-10	FALSE	96.15%
Trichloroethene	GWC-10A	FALSE	96.15%
Trichloroethene	GWC-13	FALSE	96.15%
Trichloroethene	GWC-14A	FALSE	96.15%
Trichloroethene	GWC-14R	<b>TRUE</b>	96.15%
Trichloroethene	GWC-17	FALSE	96.15%
Trichloroethene	GWC-3A	FALSE	96.15%
Trichloroethene	GWC-4A	FALSE	96.15%
Trichloroethene	GWC-5	FALSE	96.15%
Trichloroethene	GWC-7	FALSE	96.15%
Trichloroethene	GWC-8	FALSE	96.15%
Trichloroethene	GWC-8A	FALSE	96.15%
Trichloroethene	GWC-8R	FALSE	96.15%
Trichloroethene	GWC-16A	FALSE	96.15%
Trichloroethene	GWA-1A	FALSE	96.15%
Trichloroethene	GWC-11	FALSE	96.15%
Trichloroethene	GWC-12	FALSE	96.15%
Trichloroethene	GWC-12A	FALSE	96.15%
Trichloroethene	GWC-15	FALSE	96.15%
Trichloroethene	GWC-18	FALSE	96.15%
Trichloroethene	GWC-19R	FALSE	96.15%
Trichloroethene	GWC-2	FALSE	96.15%
Trichloroethene	GWC-24	FALSE	96.15%
Trichloroethene	GWC-6	FALSE	96.15%
Trichloroethene	GWC-9	FALSE	96.15%
Trichloroethene	GWC-14	FALSE	96.15%
Trichloroethene	GWC-4	FALSE	96.15%
Trichloroethene	GWC-3	FALSE	96.15%
Vinyl chloride	GWA-3	FALSE	96.15%
Vinyl chloride	GWC-22	FALSE	96.15%
Vinyl chloride	GWC-23	FALSE	96.15%
Vinyl chloride	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  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-10	FALSE	96.15%
Vinyl chloride	GWC-10A	FALSE	96.15%
Vinyl chloride	GWC-13	FALSE	96.15%
Vinyl chloride	GWC-14A	<b>TRUE</b>	96.15%
Vinyl chloride	GWC-14R	FALSE	96.15%
Vinyl chloride	GWC-17	FALSE	96.15%
Vinyl chloride	GWC-3A	FALSE	96.15%
Vinyl chloride	GWC-4A	FALSE	96.15%
Vinyl chloride	GWC-5	FALSE	96.15%
Vinyl chloride	GWC-7	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-16A	FALSE	96.15%
Vinyl chloride	GWA-1A	FALSE	96.15%
Vinyl chloride	GWC-11	FALSE	96.15%
Vinyl chloride	GWC-12	FALSE	96.15%
Vinyl chloride	GWC-12A	FALSE	96.15%
Vinyl chloride	GWC-15	FALSE	96.15%
Vinyl chloride	GWC-18	FALSE	96.15%
Vinyl chloride	GWC-19R	FALSE	96.15%
Vinyl chloride	GWC-2	FALSE	96.15%
Vinyl chloride	GWC-24	FALSE	96.15%
Vinyl chloride	GWC-6	FALSE	96.15%
Vinyl chloride	GWC-9	FALSE	96.15%
Vinyl chloride	GWC-14	FALSE	96.15%
Vinyl chloride	GWC-4	FALSE	96.15%
Vinyl chloride	GWC-3	FALSE	96.15%
Barium	GWA-3	FALSE	96.15%
Barium	GWC-22	FALSE	96.15%
Barium	GWC-23	FALSE	96.15%
Barium	GWC-23A	FALSE	96.15%
Barium	GWA-1A	FALSE	96.15%
Barium	GWC-10	FALSE	96.15%
Barium	GWC-10A	FALSE	96.15%
Barium	GWC-13	FALSE	96.15%
Barium	GWC-14A	<b>TRUE</b>	96.15%
Barium	GWC-17	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  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-3A	FALSE	96.15%
Barium	GWC-4A	Passed KW	96.15%
Barium	GWC-5	FALSE	96.15%
Barium	GWC-7	FALSE	96.15%
Barium	GWC-8	FALSE	96.15%
Barium	GWC-8A	FALSE	96.15%
Barium	GWC-16A	FALSE	96.15%
Barium	GWC-11	FALSE	96.15%
Barium	GWC-12	FALSE	96.15%
Barium	GWC-12A	FALSE	96.15%
Barium	GWC-15	FALSE	96.15%
Barium	GWC-18	<b>TRUE</b>	96.15%
Barium	GWC-19R	<b>TRUE</b>	96.15%
Barium	GWC-2	FALSE	96.15%
Barium	GWC-6	FALSE	96.15%
Barium	GWC-9	<b>TRUE</b>	96.15%
Barium	GWC-24	FALSE	96.15%
Barium	GWC-14	FALSE	96.15%
Barium	GWC-3	FALSE	96.15%
Barium	GWC-4	FALSE	96.15%
Barium	GWC-14R	FALSE	96.15%
Barium	GWC-8R	FALSE	96.15%
Cobalt	GWA-3	FALSE	96.15%
Cobalt	GWC-22	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-13	FALSE	96.15%
Cobalt	GWC-14A	<b>TRUE</b>	96.15%
Cobalt	GWC-17	FALSE	96.15%
Cobalt	GWC-3A	FALSE	96.15%
Cobalt	GWC-4A	FALSE	96.15%
Cobalt	GWC-5	FALSE	96.15%
Cobalt	GWC-7	FALSE	96.15%
Cobalt	GWC-8	FALSE	96.15%
Cobalt	GWC-8A	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  
 First 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-11	FALSE	96.15%
Cobalt	GWC-12	FALSE	96.15%
Cobalt	GWC-12A	FALSE	96.15%
Cobalt	GWC-15	FALSE	96.15%
Cobalt	GWC-18	FALSE	96.15%
Cobalt	GWC-19R	FALSE	96.15%
Cobalt	GWC-2	FALSE	96.15%
Cobalt	GWC-6	FALSE	96.15%
Cobalt	GWC-9	FALSE	96.15%
Cobalt	GWC-24	FALSE	96.15%
Cobalt	GWC-14	<b>TRUE</b>	96.15%
Cobalt	GWC-3	FALSE	96.15%
Cobalt	GWC-4	FALSE	96.15%
Cobalt	GWC-14R	FALSE	96.15%
Cobalt	GWC-8R	FALSE	96.15%
Nickel	GWA-3	FALSE	96.15%
Nickel	GWC-22	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-13	FALSE	96.15%
Nickel	GWC-14A	FALSE	96.15%
Nickel	GWC-17	FALSE	96.15%
Nickel	GWC-3A	FALSE	96.15%
Nickel	GWC-4A	FALSE	96.15%
Nickel	GWC-5	FALSE	96.15%
Nickel	GWC-7	FALSE	96.15%
Nickel	GWC-8	FALSE	96.15%
Nickel	GWC-8A	FALSE	96.15%
Nickel	GWC-16A	FALSE	96.15%
Nickel	GWC-11	FALSE	96.15%
Nickel	GWC-12	FALSE	96.15%
Nickel	GWC-12A	FALSE	96.15%
Nickel	GWC-15	FALSE	96.15%
Nickel	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  
 First 2023 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Nickel	GWC-19R	FALSE	96.15%
Nickel	GWC-2	FALSE	96.15%
Nickel	GWC-6	FALSE	96.15%
Nickel	GWC-9	FALSE	96.15%
Nickel	GWC-24	FALSE	96.15%
Nickel	GWC-14	FALSE	96.15%
Nickel	GWC-3	FALSE	96.15%
Nickel	GWC-4	FALSE	96.15%
Nickel	GWC-14R	FALSE	96.15%
Nickel	GWC-8R	FALSE	96.15%
Zinc	GWA-3	FALSE	96.15%
Zinc	GWC-22	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-13	FALSE	96.15%
Zinc	GWC-14A	FALSE	96.15%
Zinc	GWC-17	FALSE	96.15%
Zinc	GWC-3A	FALSE	96.15%
Zinc	GWC-4A	Passed KW	96.15%
Zinc	GWC-5	FALSE	96.15%
Zinc	GWC-7	FALSE	96.15%
Zinc	GWC-8	FALSE	96.15%
Zinc	GWC-8A	FALSE	96.15%
Zinc	GWC-16A	FALSE	96.15%
Zinc	GWC-11	FALSE	96.15%
Zinc	GWC-12	FALSE	96.15%
Zinc	GWC-12A	FALSE	96.15%
Zinc	GWC-15	FALSE	96.15%
Zinc	GWC-18	FALSE	96.15%
Zinc	GWC-19R	FALSE	96.15%
Zinc	GWC-2	FALSE	96.15%
Zinc	GWC-6	FALSE	96.15%
Zinc	GWC-9	FALSE	96.15%
Zinc	GWC-24	FALSE	96.15%
Zinc	GWC-14	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  
First 2023 Groundwater Monitoring Event  
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-3	FALSE	96.15%
Zinc	GWC-4	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 = 85.8209%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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
<hr/>			
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE

GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>23</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>17</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>16</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-HV

1,1-Dichloroethane

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-14R	12/12/2017	20	TRUE
GWC-14R	6/20/2018	22	TRUE
GWC-14R	12/19/2018	18	TRUE
GWC-14R	6/12/2019	18	TRUE
GWC-14R	12/10/2019	14	TRUE
GWC-14R	6/23/2020	18	TRUE
GWC-14R	12/17/2020	19	TRUE
GWC-14R	6/16/2021	16	TRUE
GWC-14R	12/14/2021	14	TRUE
GWC-14R	6/9/2022	11	TRUE
GWC-14R	12/13/2022	12	TRUE
GWC-14R	6/21/2023	11	TRUE

GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-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-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	ND<2	FALSE
GWC-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-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	ND<2	FALSE
GWC-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-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-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-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-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-8A	12/12/2017	4.9	TRUE
GWC-8A	6/20/2018	3.9	TRUE
GWC-8A	12/19/2018	4.2	TRUE
GWC-8A	6/12/2019	2.6	TRUE
GWC-8A	12/11/2019	3.7	TRUE

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-8R	12/12/2017	14	TRUE
GWC-8R	6/20/2018	22	TRUE
GWC-8R	12/19/2018	13	TRUE
GWC-8R	6/12/2019	12	TRUE
GWC-8R	12/11/2019	9.3	TRUE
GWC-8R	6/23/2020	13	TRUE
GWC-8R	12/15/2020	12	TRUE
GWC-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-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	ND<2	FALSE
GWC-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

GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE
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

GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	ND<2	FALSE
GWC-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-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	ND<2	FALSE
GWC-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-15	12/13/2017	3.7	TRUE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	3	TRUE
GWC-15	6/11/2019	38	TRUE
GWC-15	12/10/2019	23	TRUE
GWC-15	6/25/2020	39	TRUE
GWC-15	12/17/2020	33	TRUE
GWC-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-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	ND<2	FALSE



## Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE
GWC-19R	12/15/2020	ND<2	FALSE
GWC-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-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
GWC-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-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	ND<2	FALSE
GWC-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-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE

## Forsyth County - Hightower Road Landfill - Phase II-IV

1,1-Dichloroethane

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-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
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-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-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-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

**Non-Parametric Tolerance Interval**

**Parameter: Benzene**

**Original Data (Not Transformed)**

**Non-Detects Replaced with Detection Limit**

Total Percent Non-Detects = 93.5323%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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
<hr/>			
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE

GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>2.8</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>2.5</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-HV

Benzene

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-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE
GWC-14R	12/17/2020	ND<2	FALSE
GWC-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE
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-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-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-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	ND<2	FALSE
GWC-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-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

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-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	ND<2	FALSE
GWC-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-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-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-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-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-8A	12/12/2017	3.8	TRUE
GWC-8A	6/20/2018	2.7	TRUE
GWC-8A	12/19/2018	3.3	TRUE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	2.8	TRUE

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

GWC-8A	6/23/2020	ND<2	FALSE
<b>GWC-8A</b>	<b>12/15/2020</b>	<b>2.3</b>	<b>TRUE</b>
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8A	6/9/2022	2	FALSE
<b>GWC-8A</b>	<b>12/13/2022</b>	<b>2.4</b>	<b>TRUE</b>
GWC-8A	6/21/2023	ND<2	FALSE

GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE
GWC-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-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	ND<2	FALSE
GWC-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

GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE
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

GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

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-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	ND<2	FALSE
GWC-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-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	ND<2	FALSE
GWC-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-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
<b>GWC-15</b>	<b>6/11/2019</b>	<b>3.1</b>	<b>TRUE</b>
GWC-15	12/10/2019	ND<2	FALSE
<b>GWC-15</b>	<b>6/25/2020</b>	<b>3.6</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/17/2020</b>	<b>3.1</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/16/2021</b>	<b>3.9</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/14/2021</b>	<b>3.7</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/9/2022</b>	<b>4.2</b>	<b>TRUE</b>
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE

GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

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
<hr/>			
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE
GWC-19R	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Benzene

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
<hr/>			
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
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
<hr/>			
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
<hr/>			
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
<hr/>			
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

**Non-Parametric Tolerance Interval**

**Parameter: Chlorobenzene**

**Original Data (Not Transformed)**

**Non-Detects Replaced with Detection Limit**

Total Percent Non-Detects = 98.2587%

Background measurements (n) = 25

Maximum Background Concentration = 10

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<10	FALSE
GWA-3	6/18/2018	ND<10	FALSE
GWA-3	12/17/2018	ND<10	FALSE
GWA-3	6/11/2019	ND<10	FALSE
GWA-3	12/10/2019	ND<10	FALSE
GWA-3	6/22/2020	ND<10	FALSE
GWA-3	12/16/2020	ND<10	FALSE
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
<hr/>			
GWC-22	12/11/2017	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
<hr/>			
GWC-23	12/11/2017	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
<hr/>			
GWC-23A	12/11/2017	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
<hr/>			
GWC-10	12/12/2017	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
<hr/>			
GWC-10A	12/12/2017	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
<hr/>			
GWC-13	12/12/2017	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
<hr/>			
GWC-14A	12/12/2017	ND<10	FALSE
GWC-14A	6/20/2018	ND<10	FALSE
GWC-14A	12/19/2018	ND<10	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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-14R	12/12/2017	ND<10	FALSE
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
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-17	12/12/2017	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
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-3A	12/12/2017	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-4A	12/12/2017	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

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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-5	12/12/2017	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-7	12/12/2017	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-8	12/12/2017	ND<10	FALSE
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-8A	12/12/2017	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

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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-8R	12/12/2017	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-16A	12/13/2017	ND<10	FALSE
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

GWA-1A	12/13/2017	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

GWC-11	12/13/2017	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

Forsyth County - Hightower Road Landfill - Phase II-IV

Chlorobenzene

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-12	12/13/2017	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
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-12A	12/13/2017	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-15	12/13/2017	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-18	12/13/2017	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



## Forsyth County - Hightower Road Landfill - Phase II-IV

## Chlorobenzene

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-19R	12/13/2017	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-2	12/13/2017	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-24	12/13/2017	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
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-6	12/13/2017	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

## Forsyth County - Hightower Road Landfill - Phase II-IV

## Chlorobenzene

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-9	12/13/2017	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-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-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-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

**Non-Parametric Tolerance Interval**

**Parameter: Chloroethane**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.0149%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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
<hr/>			
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE

GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	ND<2	FALSE
GWC-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
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<b>GWC-14A</b>	<b>12/12/2017</b>	<b>7.7</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>8.5</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>5.4</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

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-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE
GWC-14R	12/17/2020	ND<2	FALSE
GWC-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE
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-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-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-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	ND<2	FALSE
GWC-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-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

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-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	ND<2	FALSE
GWC-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-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-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-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-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-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

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-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE
GWC-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-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	ND<2	FALSE
GWC-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

GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE
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

GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

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-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	ND<2	FALSE
GWC-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-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	ND<2	FALSE
GWC-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-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	6/25/2020	ND<2	FALSE
GWC-15	12/17/2020	ND<2	FALSE
GWC-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-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	ND<2	FALSE

## Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

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-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE
GWC-19R	12/15/2020	ND<2	FALSE
GWC-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-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
GWC-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-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	ND<2	FALSE
GWC-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-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE

## Forsyth County - Hightower Road Landfill - Phase II-IV

Chloroethane

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-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
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-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-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-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

**Non-Parametric Tolerance Interval**

**Parameter: cis-1,2-Dichloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 72.6368%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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
<hr/>			
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE

GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>62</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>71</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>53</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-HV

cis-1,2-Dichloroethene

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-14R	12/12/2017	20	TRUE
GWC-14R	6/20/2018	24	TRUE
GWC-14R	12/19/2018	17	TRUE
GWC-14R	6/12/2019	21	TRUE
GWC-14R	12/10/2019	19	TRUE
GWC-14R	6/23/2020	26	TRUE
GWC-14R	12/17/2020	28	TRUE
GWC-14R	6/16/2021	26	TRUE
GWC-14R	12/14/2021	24	TRUE
GWC-14R	6/9/2022	21	TRUE
GWC-14R	12/13/2022	22	TRUE
GWC-14R	6/21/2023	20	TRUE

GWC-17	12/12/2017	17	TRUE
GWC-17	6/19/2018	4.7	TRUE
GWC-17	12/19/2018	8.7	TRUE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	15	TRUE
GWC-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-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	ND<2	FALSE
GWC-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-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-HV

cis-1,2-Dichloroethene

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-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	ND<2	FALSE
GWC-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-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-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-8	12/12/2017	7.6	TRUE
GWC-8	6/20/2018	2.6	TRUE
GWC-8	12/19/2018	4.3	TRUE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	2.8	TRUE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-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-8A	12/12/2017	37	TRUE
GWC-8A	6/20/2018	32	TRUE
GWC-8A	12/19/2018	31	TRUE
GWC-8A	6/12/2019	22	TRUE
GWC-8A	12/11/2019	33	TRUE

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

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-8R	12/12/2017	21	TRUE
GWC-8R	6/20/2018	24	TRUE
GWC-8R	12/19/2018	18	TRUE
GWC-8R	6/12/2019	21	TRUE
GWC-8R	12/11/2019	24	TRUE
GWC-8R	6/23/2020	27	TRUE
GWC-8R	12/15/2020	30	TRUE
GWC-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-16A	12/13/2017	2.9	TRUE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	2.5	TRUE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	2.1	TRUE
GWC-16A	6/23/2020	2.2	TRUE
GWC-16A	12/17/2020	2.3	TRUE
GWC-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

GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE
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

GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

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-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	ND<2	FALSE
GWC-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-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	ND<2	FALSE
GWC-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-15	12/13/2017	11	TRUE
GWC-15	6/19/2018	2	FALSE
GWC-15	12/19/2018	2.9	TRUE
GWC-15	6/11/2019	97	TRUE
GWC-15	12/10/2019	51	TRUE
GWC-15	6/25/2020	110	TRUE
GWC-15	12/17/2020	110	TRUE
GWC-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-18	12/13/2017	14	TRUE
GWC-18	6/19/2018	7.7	TRUE
GWC-18	12/18/2018	12	TRUE
GWC-18	6/11/2019	14	TRUE
GWC-18	12/9/2019	30	TRUE
GWC-18	6/23/2020	10	TRUE
GWC-18	12/15/2020	26	TRUE



Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

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-19R	12/13/2017	4.7	TRUE
GWC-19R	6/19/2018	5.1	TRUE
GWC-19R	12/18/2018	2.9	TRUE
GWC-19R	6/11/2019	7.7	TRUE
GWC-19R	12/9/2019	11	TRUE
GWC-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-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
GWC-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-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	2.2	TRUE
GWC-24	12/19/2018	3.7	TRUE
GWC-24	6/11/2019	4.4	TRUE
GWC-24	12/9/2019	6.1	TRUE
GWC-24	6/24/2020	3	TRUE
GWC-24	12/15/2020	3.5	TRUE
GWC-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-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

cis-1,2-Dichloroethene

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-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
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-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-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-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

**Non-Parametric Tolerance Interval**

**Parameter: Tetrachloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.2836%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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
<hr/>			
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE

GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-14A	12/12/2017	ND<2	FALSE
GWC-14A	6/20/2018	ND<2	FALSE
GWC-14A	12/19/2018	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

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-14R	12/12/2017	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
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-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-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-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	ND<2	FALSE
GWC-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-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

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-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	ND<2	FALSE
GWC-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-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-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-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-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-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV				Tetrachloroethene
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	
<hr/>				
GWC-8R	12/12/2017	ND<2	FALSE	
GWC-8R	6/20/2018	2	FALSE	
GWC-8R	12/19/2018	ND<2	FALSE	
GWC-8R	6/12/2019	ND<2	FALSE	
GWC-8R	12/11/2019	ND<2	FALSE	
GWC-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	
<hr/>				
GWC-16A	12/13/2017	ND<2	FALSE	
GWC-16A	6/21/2018	ND<2	FALSE	
GWC-16A	12/19/2018	ND<2	FALSE	
GWC-16A	6/13/2019	ND<2	FALSE	
GWC-16A	12/11/2019	ND<2	FALSE	
GWC-16A	6/23/2020	ND<2	FALSE	
GWC-16A	12/17/2020	ND<2	FALSE	
GWC-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	
<b>GWC-16A</b>	<b>6/20/2023</b>	<b>3.2</b>	<b>TRUE</b>	
<hr/>				
GWA-1A	12/13/2017	ND<2	FALSE	
GWA-1A	6/19/2018	ND<2	FALSE	
GWA-1A	12/18/2018	ND<2	FALSE	
GWA-1A	6/10/2019	ND<2	FALSE	
GWA-1A	12/9/2019	ND<2	FALSE	
GWA-1A	6/23/2020	ND<2	FALSE	
GWA-1A	12/17/2020	ND<2	FALSE	
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	
<hr/>				
GWC-11	12/13/2017	ND<2	FALSE	
GWC-11	6/19/2018	ND<2	FALSE	
GWC-11	12/19/2018	ND<2	FALSE	
GWC-11	6/12/2019	ND<2	FALSE	
GWC-11	12/12/2019	ND<2	FALSE	
GWC-11	6/24/2020	ND<2	FALSE	

Forsyth County - Hightower Road Landfill - Phase II-IV				Tetrachloroethene
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	
<hr/>				
GWC-12	12/13/2017	ND<2	FALSE	
GWC-12	6/19/2018	ND<2	FALSE	
GWC-12	12/19/2018	ND<2	FALSE	
GWC-12	6/11/2019	ND<2	FALSE	
GWC-12	12/9/2019	ND<2	FALSE	
GWC-12	6/24/2020	ND<2	FALSE	
GWC-12	12/15/2020	ND<2	FALSE	
GWC-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	
<hr/>				
GWC-12A	12/13/2017	ND<2	FALSE	
GWC-12A	6/19/2018	ND<2	FALSE	
GWC-12A	12/19/2018	ND<2	FALSE	
GWC-12A	6/11/2019	ND<2	FALSE	
GWC-12A	12/9/2019	ND<2	FALSE	
GWC-12A	6/24/2020	ND<2	FALSE	
GWC-12A	12/15/2020	ND<2	FALSE	
GWC-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	
<hr/>				
<b>GWC-15</b>	<b>12/13/2017</b>	<b>2.7</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>6/19/2018</b>	<b>5</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>12/19/2018</b>	<b>9.7</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>6/11/2019</b>	<b>50</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>12/10/2019</b>	<b>31</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>6/25/2020</b>	<b>48</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>12/17/2020</b>	<b>19</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>6/16/2021</b>	<b>29</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>12/14/2021</b>	<b>12</b>	<b>TRUE</b>	
<b>GWC-15</b>	<b>6/9/2022</b>	<b>42</b>	<b>TRUE</b>	
GWC-15	12/15/2022	ND<2	FALSE	
GWC-15	6/22/2023	ND<2	FALSE	
<hr/>				
<b>GWC-18</b>	<b>12/13/2017</b>	<b>6.5</b>	<b>TRUE</b>	
<b>GWC-18</b>	<b>6/19/2018</b>	<b>4.6</b>	<b>TRUE</b>	
<b>GWC-18</b>	<b>12/18/2018</b>	<b>7</b>	<b>TRUE</b>	
<b>GWC-18</b>	<b>6/11/2019</b>	<b>3.9</b>	<b>TRUE</b>	
<b>GWC-18</b>	<b>12/9/2019</b>	<b>7.4</b>	<b>TRUE</b>	
<b>GWC-18</b>	<b>6/23/2020</b>	<b>5.7</b>	<b>TRUE</b>	
<b>GWC-18</b>	<b>12/15/2020</b>	<b>6.4</b>	<b>TRUE</b>	

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

<b>GWC-18</b>	<b>6/14/2021</b>	<b>3.1</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/14/2021</b>	<b>3.4</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/7/2022</b>	<b>5.2</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/14/2022</b>	<b>3.8</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/20/2023</b>	<b>2.9</b>	<b>TRUE</b>

GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-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-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
GWC-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-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	ND<2	FALSE
GWC-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-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Tetrachloroethene

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-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
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-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-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-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

**Non-Parametric Tolerance Interval**

**Parameter: Trichloroethene**

**Original Data (Not Transformed)**

**Non-Detects Replaced with Detection Limit**

Total Percent Non-Detects = 92.2886%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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
<hr/>			
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE

GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>3.8</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>2.1</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>2.2</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-HV

Trichloroethene

GWC-14A	6/11/2019	ND<2	FALSE
<b>GWC-14A</b>	<b>12/10/2019</b>	<b>3.1</b>	<b>TRUE</b>
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
<b>GWC-14A</b>	<b>12/13/2022</b>	<b>3.3</b>	<b>TRUE</b>
GWC-14A	6/20/2023	ND<2	FALSE

<b>GWC-14R</b>	<b>12/12/2017</b>	<b>4.8</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/20/2018</b>	<b>5.2</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>12/19/2018</b>	<b>4.9</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/12/2019</b>	<b>4.7</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>12/10/2019</b>	<b>4.3</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/23/2020</b>	<b>4.3</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>12/17/2020</b>	<b>3.9</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/16/2021</b>	<b>3.9</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>12/14/2021</b>	<b>2.8</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/9/2022</b>	<b>2.8</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>12/13/2022</b>	<b>3</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/21/2023</b>	<b>2.3</b>	<b>TRUE</b>

GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-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-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	ND<2	FALSE
GWC-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-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

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-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	ND<2	FALSE
GWC-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-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-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-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-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-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

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-8R	12/12/2017	ND<2	FALSE
<b>GWC-8R</b>	<b>6/20/2018</b>	<b>5.3</b>	<b>TRUE</b>
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
<b>GWC-8R</b>	<b>6/16/2021</b>	<b>2.1</b>	<b>TRUE</b>
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-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	ND<2	FALSE
GWC-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

GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE
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

GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

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-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	ND<2	FALSE
GWC-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-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	ND<2	FALSE
GWC-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-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
<b>GWC-15</b>	<b>12/19/2018</b>	<b>3.7</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/11/2019</b>	<b>70</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/10/2019</b>	<b>55</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/25/2020</b>	<b>90</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/17/2020</b>	<b>45</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/16/2021</b>	<b>71</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/14/2021</b>	<b>48</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/9/2022</b>	<b>65</b>	<b>TRUE</b>
GWC-15	12/15/2022	ND<2	FALSE
GWC-15	6/22/2023	ND<2	FALSE

<b>GWC-18</b>	<b>12/13/2017</b>	<b>2.3</b>	<b>TRUE</b>
GWC-18	6/19/2018	ND<2	FALSE
<b>GWC-18</b>	<b>12/18/2018</b>	<b>2.1</b>	<b>TRUE</b>
GWC-18	6/11/2019	ND<2	FALSE
<b>GWC-18</b>	<b>12/9/2019</b>	<b>2.6</b>	<b>TRUE</b>
GWC-18	6/23/2020	ND<2	FALSE
<b>GWC-18</b>	<b>12/15/2020</b>	<b>2.4</b>	<b>TRUE</b>



## Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

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-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE
GWC-19R	12/15/2020	ND<2	FALSE
GWC-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-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
GWC-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-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	ND<2	FALSE
GWC-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-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE

## Forsyth County - Hightower Road Landfill - Phase II-IV

Trichloroethene

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-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
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-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-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-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

**Non-Parametric Tolerance Interval**

**Parameter: Vinyl chloride**

**Original Data (Not Transformed)**

**Non-Detects Replaced with Detection Limit**

Total Percent Non-Detects = 97.0149%

Background measurements (n) = 25

Maximum Background Concentration = 2

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
GWA-3	12/16/2020	ND<2	FALSE
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
<hr/>			
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
GWC-22	12/17/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE

GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
GWC-23A	12/16/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE
GWC-10A	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE
GWC-13	12/15/2020	ND<2	FALSE
GWC-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
<hr/>			
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>6</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>6.2</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>4.9</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE
GWC-14R	12/17/2020	ND<2	FALSE
GWC-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE
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-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
GWC-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-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE
GWC-3A	12/16/2020	ND<2	FALSE
GWC-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-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
GWC-5	12/17/2020	ND<2	FALSE
GWC-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-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
GWC-7	12/17/2020	ND<2	FALSE
GWC-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-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-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-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE
GWC-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-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE
GWC-16A	12/17/2020	ND<2	FALSE
GWC-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

GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE
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

GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	ND<2	FALSE
GWC-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-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	ND<2	FALSE
GWC-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-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	6/25/2020	ND<2	FALSE
GWC-15	12/17/2020	ND<2	FALSE
GWC-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-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE
GWC-19R	12/15/2020	ND<2	FALSE
GWC-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-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
GWC-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-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE
GWC-24	12/15/2020	ND<2	FALSE
GWC-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-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE
GWC-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Vinyl chloride

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-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
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-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-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-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

**Non-Parametric Tolerance Interval**

**Parameter: Barium**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 36.828%

Background measurements (n) = 25

Maximum Background Concentration = 39.5

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	22.9	FALSE
GWA-3	6/23/2020	ND<20	FALSE
GWA-3	12/17/2020	ND<20	FALSE
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

GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	24	FALSE
GWC-22	12/19/2018	21	FALSE
GWC-22	6/13/2019	21	FALSE
GWC-22	12/12/2019	21.5	FALSE
GWC-22	6/24/2020	22.1	FALSE
GWC-22	12/18/2020	20.4	FALSE
GWC-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-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
GWC-23	6/24/2020	ND<20	FALSE
GWC-23	12/17/2020	ND<20	FALSE
GWC-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-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE

GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	ND<20	FALSE
GWC-23A	6/24/2020	ND<20	FALSE
GWC-23A	12/17/2020	ND<20	FALSE
GWC-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

GWA-1A	12/13/2017	33	FALSE
GWA-1A	6/20/2018	30	FALSE
GWA-1A	12/18/2018	32	FALSE
<b>GWA-1A</b>	<b>6/10/2019</b>	<b>41</b>	<b>TRUE</b>
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

<b>GWC-10</b>	<b>12/13/2017</b>	<b>48</b>	<b>TRUE</b>
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-10A	12/13/2017	32	FALSE
GWC-10A	6/20/2018	34	FALSE
GWC-10A	12/18/2018	35	FALSE
GWC-10A	6/11/2019	33	FALSE
GWC-10A	12/13/2019	35.2	FALSE
GWC-10A	6/25/2020	29.6	FALSE
GWC-10A	12/16/2020	32.5	FALSE
GWC-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-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	36	FALSE
GWC-13	12/20/2018	ND<20	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

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

<b>GWC-14A</b>	<b>12/13/2017</b>	<b>180</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2018</b>	<b>190</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>180</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/12/2019</b>	<b>170</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/11/2019</b>	<b>170</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2020</b>	<b>171</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/16/2020</b>	<b>171</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/16/2021</b>	<b>173</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/15/2021</b>	<b>179</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/10/2022</b>	<b>167</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/14/2022</b>	<b>181</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2023</b>	<b>161</b>	<b>TRUE</b>

GWC-17	12/13/2017	35	FALSE
GWC-17	6/20/2018	34	FALSE
<b>GWC-17</b>	<b>12/20/2018</b>	<b>69</b>	<b>TRUE</b>
<b>GWC-17</b>	<b>6/13/2019</b>	<b>43</b>	<b>TRUE</b>
GWC-17	12/11/2019	37.1	FALSE
GWC-17	6/24/2020	30.9	FALSE
<b>GWC-17</b>	<b>12/16/2020</b>	<b>40.7</b>	<b>TRUE</b>
GWC-17	6/15/2021	38.3	FALSE
GWC-17	12/15/2021	39.2	FALSE
<b>GWC-17</b>	<b>6/10/2022</b>	<b>41.1</b>	<b>TRUE</b>
GWC-17	12/15/2022	36.5	FALSE
GWC-17	6/21/2023	27.6	FALSE

GWC-3A	12/13/2017	38	FALSE
GWC-3A	6/21/2018	39	FALSE
GWC-3A	12/18/2018	38	FALSE
<b>GWC-3A</b>	<b>6/12/2019</b>	<b>46</b>	<b>TRUE</b>
<b>GWC-3A</b>	<b>12/11/2019</b>	<b>40.7</b>	<b>TRUE</b>
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

<b>GWC-4A</b>	<b>12/13/2017</b>	<b>81</b>	<b>TRUE</b>
GWC-4A	6/21/2018	22	FALSE
GWC-4A	12/18/2018	25	FALSE
<b>GWC-4A</b>	<b>6/12/2019</b>	<b>74</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

GWC-4A	12/12/2019	ND<20	FALSE
GWC-4A	6/24/2020	29.9	FALSE
GWC-4A	12/18/2020	30.5	FALSE
GWC-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
<b>GWC-4A</b>	<b>6/22/2023</b>	<b>54.6</b>	<b>TRUE</b>

GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
GWC-5	6/24/2020	ND<20	FALSE
GWC-5	12/18/2020	ND<20	FALSE
GWC-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

<b>GWC-7</b>	<b>12/13/2017</b>	<b>46</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>6/20/2018</b>	<b>49</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>12/19/2018</b>	<b>51</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>6/13/2019</b>	<b>48</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>12/12/2019</b>	<b>49.9</b>	<b>TRUE</b>
GWC-7	6/25/2020	36.4	FALSE
GWC-7	12/18/2020	38.8	FALSE
GWC-7	6/16/2021	36.9	FALSE
<b>GWC-7</b>	<b>12/14/2021</b>	<b>41.8</b>	<b>TRUE</b>
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-8	12/13/2017	23	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	30	FALSE
GWC-8	12/12/2019	28.6	FALSE
<b>GWC-8</b>	<b>6/24/2020</b>	<b>52.4</b>	<b>TRUE</b>
GWC-8	12/17/2020	33	FALSE
<b>GWC-8</b>	<b>6/17/2021</b>	<b>42.5</b>	<b>TRUE</b>
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

<b>GWC-8A</b>	<b>12/13/2017</b>	<b>42</b>	<b>TRUE</b>
<b>GWC-8A</b>	<b>6/21/2018</b>	<b>51</b>	<b>TRUE</b>
<b>GWC-8A</b>	<b>12/20/2018</b>	<b>55</b>	<b>TRUE</b>
GWC-8A	6/13/2019	33	FALSE
<b>GWC-8A</b>	<b>12/12/2019</b>	<b>56</b>	<b>TRUE</b>
<b>GWC-8A</b>	<b>6/24/2020</b>	<b>43.9</b>	<b>TRUE</b>

Forsyth County - Hightower Road Landfill - Phase II-HV

Barium

GWC-8A	12/16/2020	46.8	TRUE
GWC-8A	6/17/2021	52.4	TRUE
GWC-8A	12/16/2021	49.7	TRUE
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-16A	12/14/2017	29	FALSE
GWC-16A	6/21/2018	34	FALSE
GWC-16A	12/20/2018	24	FALSE
GWC-16A	6/13/2019	26	FALSE
GWC-16A	12/12/2019	26.7	FALSE
GWC-16A	6/23/2020	23.6	FALSE
GWC-16A	12/17/2020	25.2	FALSE
GWC-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-11	12/14/2017	42	TRUE
GWC-11	6/20/2018	21	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	40	TRUE
GWC-11	12/13/2019	35.9	FALSE
GWC-11	6/25/2020	25.9	FALSE
GWC-11	12/16/2020	25.4	FALSE
GWC-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-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	34	FALSE
GWC-12	6/12/2019	20	FALSE
GWC-12	12/10/2019	ND<20	FALSE
GWC-12	6/25/2020	ND<20	FALSE
GWC-12	12/22/2020	22.6	FALSE
GWC-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-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	ND<20	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE
GWC-12A	6/25/2020	ND<20	FALSE
GWC-12A	12/16/2020	ND<20	FALSE
GWC-12A	6/16/2021	ND<20	FALSE

Forsyth County - Hightower Road Landfill - Phase II-HV

Barium

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-15	12/14/2017	99	TRUE
GWC-15	6/20/2018	98	TRUE
GWC-15	12/19/2018	58	TRUE
GWC-15	6/11/2019	60	TRUE
GWC-15	12/10/2019	42.3	TRUE
GWC-15	6/25/2020	62.7	TRUE
GWC-15	12/17/2020	54.7	TRUE
GWC-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-18	12/14/2017	150	TRUE
GWC-18	6/20/2018	280	TRUE
GWC-18	12/19/2018	140	TRUE
GWC-18	6/12/2019	230	TRUE
GWC-18	12/10/2019	181	TRUE
GWC-18	6/24/2020	168	TRUE
GWC-18	12/16/2020	160	TRUE
GWC-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-19R	12/14/2017	120	TRUE
GWC-19R	6/20/2018	81	TRUE
GWC-19R	12/19/2018	160	TRUE
GWC-19R	6/12/2019	97	TRUE
GWC-19R	12/10/2019	89.2	TRUE
GWC-19R	6/24/2020	83	TRUE
GWC-19R	12/16/2020	76.5	TRUE
GWC-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-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE
GWC-2	6/13/2019	ND<20	FALSE
GWC-2	12/11/2019	ND<20	FALSE
GWC-2	6/23/2020	27.5	FALSE
GWC-2	12/17/2020	ND<20	FALSE
GWC-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	ND<20	FALSE



Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

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-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	37	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE
GWC-6	6/25/2020	ND<20	FALSE
GWC-6	12/18/2020	ND<20	FALSE
GWC-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-9	12/14/2017	54	TRUE
GWC-9	6/21/2018	73	TRUE
GWC-9	12/19/2018	53	TRUE
GWC-9	6/13/2019	80	TRUE
GWC-9	12/13/2019	67.9	TRUE
GWC-9	6/25/2020	78.5	TRUE
GWC-9	12/18/2020	90	TRUE
GWC-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-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
GWC-24	12/15/2022	ND<20	FALSE
GWC-24	6/21/2023	ND<20	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-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE

Forsyth County - Hightower Road Landfill - Phase II-IV

Barium

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-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-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: Cobalt**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 94.086%

Background measurements (n) = 25

Maximum Background Concentration = 40

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/12/2017	ND<40	FALSE
GWA-3	6/19/2018	ND<40	FALSE
GWA-3	12/18/2018	ND<40	FALSE
GWA-3	6/12/2019	ND<40	FALSE
GWA-3	12/11/2019	ND<40	FALSE
GWA-3	6/23/2020	ND<40	FALSE
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

GWC-22	12/12/2017	ND<40	FALSE
GWC-22	6/20/2018	ND<40	FALSE
GWC-22	12/19/2018	ND<40	FALSE
GWC-22	6/13/2019	ND<40	FALSE
GWC-22	12/12/2019	ND<40	FALSE
GWC-22	6/24/2020	ND<40	FALSE
GWC-22	12/18/2020	ND<40	FALSE
GWC-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-23	12/12/2017	ND<40	FALSE
GWC-23	6/19/2018	ND<40	FALSE
GWC-23	12/19/2018	ND<40	FALSE
GWC-23	6/13/2019	ND<40	FALSE
GWC-23	12/12/2019	ND<40	FALSE
GWC-23	6/24/2020	ND<40	FALSE
GWC-23	12/17/2020	ND<40	FALSE
GWC-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-23A	12/12/2017	ND<40	FALSE
GWC-23A	6/19/2018	ND<40	FALSE

GWC-23A	12/19/2018	ND<40	FALSE
GWC-23A	6/13/2019	ND<40	FALSE
GWC-23A	12/12/2019	ND<40	FALSE
GWC-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

GWA-1A	12/13/2017	ND<40	FALSE
GWA-1A	6/20/2018	ND<40	FALSE
GWA-1A	12/18/2018	ND<40	FALSE
GWA-1A	6/10/2019	ND<40	FALSE
GWA-1A	12/9/2019	ND<40	FALSE
GWA-1A	6/23/2020	ND<40	FALSE
GWA-1A	12/17/2020	ND<40	FALSE
GWA-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

GWC-10	12/13/2017	ND<40	FALSE
GWC-10	6/20/2018	ND<40	FALSE
GWC-10	12/18/2018	ND<40	FALSE
GWC-10	6/11/2019	ND<40	FALSE
GWC-10	12/13/2019	ND<40	FALSE
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-10A	12/13/2017	ND<40	FALSE
GWC-10A	6/20/2018	ND<40	FALSE
GWC-10A	12/18/2018	ND<40	FALSE
GWC-10A	6/11/2019	ND<40	FALSE
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-13	12/13/2017	ND<40	FALSE
GWC-13	6/20/2018	ND<40	FALSE
GWC-13	12/20/2018	ND<40	FALSE

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Cobalt

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

<b>GWC-14A</b>	<b>12/13/2017</b>	<b>280</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2018</b>	<b>310</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>290</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/12/2019</b>	<b>330</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/11/2019</b>	<b>228</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2020</b>	<b>301</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/16/2020</b>	<b>298</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/16/2021</b>	<b>306</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/15/2021</b>	<b>192</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/10/2022</b>	<b>252</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/14/2022</b>	<b>192</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2023</b>	<b>226</b>	<b>TRUE</b>

GWC-17	12/13/2017	ND<40	FALSE
GWC-17	6/20/2018	ND<40	FALSE
GWC-17	12/20/2018	ND<40	FALSE
GWC-17	6/13/2019	ND<40	FALSE
GWC-17	12/11/2019	ND<40	FALSE
GWC-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
<b>GWC-17</b>	<b>6/10/2022</b>	<b>ND&lt;50</b>	<b>TRUE</b>
GWC-17	12/15/2022	ND<40	FALSE
GWC-17	6/21/2023	ND<40	FALSE

GWC-3A	12/13/2017	ND<40	FALSE
GWC-3A	6/21/2018	ND<40	FALSE
GWC-3A	12/18/2018	ND<40	FALSE
GWC-3A	6/12/2019	ND<40	FALSE
GWC-3A	12/11/2019	ND<40	FALSE
GWC-3A	6/25/2020	ND<40	FALSE
GWC-3A	12/17/2020	ND<40	FALSE
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-4A	12/13/2017	ND<40	FALSE
GWC-4A	6/21/2018	ND<40	FALSE
GWC-4A	12/18/2018	ND<40	FALSE
GWC-4A	6/12/2019	ND<40	FALSE

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GWC-4A	12/12/2019	ND<40	FALSE
GWC-4A	6/24/2020	ND<40	FALSE
GWC-4A	12/18/2020	ND<40	FALSE
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-5	12/13/2017	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-7	12/13/2017	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-8	12/13/2017	ND<40	FALSE
GWC-8	6/21/2018	ND<40	FALSE
GWC-8	6/13/2019	ND<40	FALSE
GWC-8	12/12/2019	ND<40	FALSE
GWC-8	6/24/2020	ND<40	FALSE
GWC-8	12/17/2020	ND<40	FALSE
GWC-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-8A	12/13/2017	ND<40	FALSE
GWC-8A	6/21/2018	ND<40	FALSE
GWC-8A	12/20/2018	ND<40	FALSE
GWC-8A	6/13/2019	ND<40	FALSE
GWC-8A	12/12/2019	ND<40	FALSE
GWC-8A	6/24/2020	ND<40	FALSE

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GWC-8A	12/16/2020	ND<40	FALSE
GWC-8A	6/17/2021	ND<40	FALSE
GWC-8A	12/16/2021	ND<40	FALSE
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-16A	12/14/2017	ND<40	FALSE
GWC-16A	6/21/2018	ND<40	FALSE
GWC-16A	12/20/2018	ND<40	FALSE
GWC-16A	6/13/2019	ND<40	FALSE
GWC-16A	12/12/2019	ND<40	FALSE
GWC-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
<b>GWC-16A</b>	<b>6/10/2022</b>	<b>ND&lt;50</b>	<b>TRUE</b>
GWC-16A	12/15/2022	ND<40	FALSE

GWC-11	12/14/2017	ND<40	FALSE
GWC-11	6/20/2018	ND<40	FALSE
GWC-11	12/20/2018	ND<40	FALSE
GWC-11	6/13/2019	ND<40	FALSE
GWC-11	12/13/2019	ND<40	FALSE
GWC-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-12	12/14/2017	ND<40	FALSE
GWC-12	6/20/2018	ND<40	FALSE
GWC-12	12/20/2018	ND<40	FALSE
GWC-12	6/12/2019	ND<40	FALSE
GWC-12	12/10/2019	ND<40	FALSE
GWC-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-12A	12/14/2017	ND<40	FALSE
GWC-12A	6/20/2018	ND<40	FALSE
GWC-12A	12/20/2018	ND<40	FALSE
GWC-12A	6/12/2019	ND<40	FALSE
GWC-12A	12/10/2019	ND<40	FALSE
GWC-12A	6/25/2020	ND<40	FALSE
GWC-12A	12/16/2020	ND<40	FALSE
GWC-12A	6/16/2021	ND<40	FALSE

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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-15	12/14/2017	ND<40	FALSE
GWC-15	6/20/2018	ND<40	FALSE
GWC-15	12/19/2018	ND<40	FALSE
GWC-15	6/11/2019	ND<40	FALSE
GWC-15	12/10/2019	ND<40	FALSE
GWC-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-18	12/14/2017	ND<40	FALSE
GWC-18	6/20/2018	ND<40	FALSE
GWC-18	12/19/2018	ND<40	FALSE
GWC-18	6/12/2019	ND<40	FALSE
GWC-18	12/10/2019	ND<40	FALSE
GWC-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
<b>GWC-18</b>	<b>6/8/2022</b>	<b>ND&lt;50</b>	<b>TRUE</b>
GWC-18	12/15/2022	ND<40	FALSE
GWC-18	6/21/2023	ND<40	FALSE

GWC-19R	12/14/2017	ND<40	FALSE
GWC-19R	6/20/2018	ND<40	FALSE
GWC-19R	12/19/2018	ND<40	FALSE
GWC-19R	6/12/2019	ND<40	FALSE
GWC-19R	12/10/2019	ND<40	FALSE
GWC-19R	6/24/2020	ND<40	FALSE
GWC-19R	12/16/2020	ND<40	FALSE
<b>GWC-19R</b>	<b>6/15/2021</b>	<b>45.2</b>	<b>TRUE</b>
<b>GWC-19R</b>	<b>12/15/2021</b>	<b>40.4</b>	<b>TRUE</b>
<b>GWC-19R</b>	<b>6/7/2022</b>	<b>ND&lt;50</b>	<b>TRUE</b>
GWC-19R	12/15/2022	ND<40	FALSE
GWC-19R	6/21/2023	ND<40	FALSE

GWC-2	12/14/2017	ND<40	FALSE
GWC-2	6/21/2018	ND<40	FALSE
GWC-2	12/20/2018	ND<40	FALSE
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

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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-6	12/14/2017	ND<40	FALSE
GWC-6	6/21/2018	ND<40	FALSE
GWC-6	12/20/2018	ND<40	FALSE
GWC-6	6/13/2019	ND<40	FALSE
GWC-6	12/11/2019	ND<40	FALSE
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-9	12/14/2017	ND<40	FALSE
GWC-9	6/21/2018	ND<40	FALSE
GWC-9	12/19/2018	ND<40	FALSE
GWC-9	6/13/2019	ND<40	FALSE
GWC-9	12/13/2019	ND<40	FALSE
GWC-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-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
<b>GWC-24</b>	<b>6/8/2022</b>	<b>ND&lt;50</b>	<b>TRUE</b>
GWC-24	12/15/2022	ND<40	FALSE
GWC-24	6/21/2023	ND<40	FALSE

<b>GWC-14</b>	<b>6/21/2018</b>	<b>42</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/12/2019</b>	<b>57</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>12/11/2019</b>	<b>50.3</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/25/2020</b>	<b>95.1</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>12/18/2020</b>	<b>55.5</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/16/2021</b>	<b>87.6</b>	<b>TRUE</b>
GWC-14	12/16/2021	ND<40	FALSE
<b>GWC-14</b>	<b>6/10/2022</b>	<b>85.5</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/22/2023</b>	<b>55</b>	<b>TRUE</b>

GWC-3	6/21/2018	ND<40	FALSE
GWC-3	12/18/2018	ND<40	FALSE
GWC-3	6/12/2019	ND<40	FALSE

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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-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-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 = 97.043%

Background measurements (n) = 25

Maximum Background Concentration = 20

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	ND<20	FALSE
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

GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	ND<20	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-22	12/12/2019	ND<20	FALSE
GWC-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-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
GWC-23	6/24/2020	ND<20	FALSE
GWC-23	12/17/2020	ND<20	FALSE
GWC-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-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE

GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	ND<20	FALSE
GWC-23A	6/24/2020	ND<20	FALSE
GWC-23A	12/17/2020	ND<20	FALSE
GWC-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

GWA-1A	12/13/2017	ND<20	FALSE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-1A	12/9/2019	ND<20	FALSE
GWA-1A	6/23/2020	ND<20	FALSE
GWA-1A	12/17/2020	ND<20	FALSE
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

GWC-10	12/13/2017	ND<20	FALSE
GWC-10	6/20/2018	ND<20	FALSE
GWC-10	12/18/2018	ND<20	FALSE
GWC-10	6/11/2019	ND<20	FALSE
GWC-10	12/13/2019	ND<20	FALSE
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-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	ND<20	FALSE
GWC-10A	6/11/2019	ND<20	FALSE
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-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE

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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

<b>GWC-14A</b>	<b>12/13/2017</b>	<b>21</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2018</b>	<b>24</b>	<b>TRUE</b>
GWC-14A	12/19/2018	20	FALSE
<b>GWC-14A</b>	<b>6/12/2019</b>	<b>21</b>	<b>TRUE</b>
GWC-14A	12/11/2019	ND<20	FALSE
<b>GWC-14A</b>	<b>6/24/2020</b>	<b>22.2</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/16/2020</b>	<b>23.6</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/16/2021</b>	<b>22.2</b>	<b>TRUE</b>
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-17	12/13/2017	ND<20	FALSE
GWC-17	6/20/2018	ND<20	FALSE
GWC-17	12/20/2018	ND<20	FALSE
GWC-17	6/13/2019	ND<20	FALSE
GWC-17	12/11/2019	ND<20	FALSE
GWC-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
<b>GWC-17</b>	<b>6/10/2022</b>	<b>ND&lt;40</b>	<b>TRUE</b>
GWC-17	12/15/2022	ND<20	FALSE
GWC-17	6/21/2023	ND<20	FALSE

GWC-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	ND<20	FALSE
GWC-3A	12/11/2019	ND<20	FALSE
GWC-3A	6/25/2020	ND<20	FALSE
GWC-3A	12/17/2020	ND<20	FALSE
GWC-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-4A	12/13/2017	ND<20	FALSE
GWC-4A	6/21/2018	ND<20	FALSE
GWC-4A	12/18/2018	ND<20	FALSE
<b>GWC-4A</b>	<b>6/12/2019</b>	<b>22</b>	<b>TRUE</b>

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Nickel

GWC-4A	12/12/2019	ND<20	FALSE
GWC-4A	6/24/2020	ND<20	FALSE
GWC-4A	12/18/2020	ND<20	FALSE
GWC-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-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
GWC-5	6/24/2020	ND<20	FALSE
GWC-5	12/18/2020	ND<20	FALSE
GWC-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-7	12/13/2017	ND<20	FALSE
GWC-7	6/20/2018	ND<20	FALSE
GWC-7	12/19/2018	ND<20	FALSE
GWC-7	6/13/2019	ND<20	FALSE
GWC-7	12/12/2019	ND<20	FALSE
GWC-7	6/25/2020	ND<20	FALSE
GWC-7	12/18/2020	ND<20	FALSE
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-8	12/13/2017	ND<20	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8	12/12/2019	ND<20	FALSE
GWC-8	6/24/2020	ND<20	FALSE
GWC-8	12/17/2020	ND<20	FALSE
GWC-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-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	ND<20	FALSE
GWC-8A	12/20/2018	ND<20	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-8A	12/12/2019	ND<20	FALSE
GWC-8A	6/24/2020	ND<20	FALSE

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Nickel

GWC-8A	12/16/2020	ND<20	FALSE
GWC-8A	6/17/2021	ND<20	FALSE
GWC-8A	12/16/2021	ND<20	FALSE
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-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	ND<20	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE
GWC-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
<b>GWC-16A</b>	<b>6/10/2022</b>	<b>ND&lt;40</b>	<b>TRUE</b>
GWC-16A	12/15/2022	ND<20	FALSE

GWC-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	ND<20	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	ND<20	FALSE
GWC-11	12/13/2019	ND<20	FALSE
GWC-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-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	ND<20	FALSE
GWC-12	6/12/2019	ND<20	FALSE
GWC-12	12/10/2019	ND<20	FALSE
GWC-12	6/25/2020	ND<20	FALSE
GWC-12	12/22/2020	ND<20	FALSE
GWC-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-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	ND<20	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE
GWC-12A	6/25/2020	ND<20	FALSE
GWC-12A	12/16/2020	ND<20	FALSE
GWC-12A	6/16/2021	ND<20	FALSE

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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-15	12/14/2017	ND<20	FALSE
GWC-15	6/20/2018	ND<20	FALSE
GWC-15	12/19/2018	ND<20	FALSE
GWC-15	6/11/2019	ND<20	FALSE
GWC-15	12/10/2019	ND<20	FALSE
GWC-15	6/25/2020	ND<20	FALSE
GWC-15	12/17/2020	ND<20	FALSE
GWC-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-18	12/14/2017	ND<20	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	ND<20	FALSE
<b>GWC-18</b>	<b>6/12/2019</b>	<b>24</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/10/2019</b>	<b>29.8</b>	<b>TRUE</b>
GWC-18	6/24/2020	ND<20	FALSE
GWC-18	12/16/2020	ND<20	FALSE
GWC-18	6/15/2021	ND<20	FALSE
<b>GWC-18</b>	<b>12/15/2021</b>	<b>33.7</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/8/2022</b>	<b>ND&lt;40</b>	<b>TRUE</b>
GWC-18	12/15/2022	ND<20	FALSE
GWC-18	6/21/2023	ND<20	FALSE

GWC-19R	12/14/2017	ND<20	FALSE
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
<b>GWC-19R</b>	<b>6/7/2022</b>	<b>ND&lt;40</b>	<b>TRUE</b>
GWC-19R	12/15/2022	ND<20	FALSE
GWC-19R	6/21/2023	ND<20	FALSE

GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE
GWC-2	6/13/2019	ND<20	FALSE
GWC-2	12/11/2019	ND<20	FALSE
GWC-2	6/23/2020	ND<20	FALSE
GWC-2	12/17/2020	ND<20	FALSE
GWC-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	ND<20	FALSE



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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-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	ND<20	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE
GWC-6	6/25/2020	ND<20	FALSE
GWC-6	12/18/2020	ND<20	FALSE
GWC-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-9	12/14/2017	ND<20	FALSE
GWC-9	6/21/2018	ND<20	FALSE
GWC-9	12/19/2018	ND<20	FALSE
GWC-9	6/13/2019	ND<20	FALSE
GWC-9	12/13/2019	ND<20	FALSE
GWC-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-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
<b>GWC-24</b>	<b>6/8/2022</b>	<b>ND&lt;40</b>	<b>TRUE</b>
GWC-24	12/15/2022	ND<20	FALSE
GWC-24	6/21/2023	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-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE

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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-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-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: Zinc**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 73.6559%

Background measurements (n) = 25

Maximum Background Concentration = 48

Minimum Coverage = 88.7%

Average Coverage = 96.1538%

Location	Date	Value	Significant
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	41	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
<b>GWA-3</b>	<b>12/11/2019</b>	<b>71.5</b>	<b>TRUE</b>
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

GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	21	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-22	12/12/2019	ND<20	FALSE
GWC-22	6/24/2020	ND<20	FALSE
GWC-22	12/18/2020	ND<20	FALSE
GWC-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-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
GWC-23	6/24/2020	ND<20	FALSE
GWC-23	12/17/2020	ND<20	FALSE
GWC-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-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE

GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	31.6	FALSE
GWC-23A	6/24/2020	ND<20	FALSE
GWC-23A	12/17/2020	ND<20	FALSE
GWC-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

GWA-1A	12/13/2017	24	FALSE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-1A	12/9/2019	ND<20	FALSE
GWA-1A	6/23/2020	ND<20	FALSE
GWA-1A	12/17/2020	ND<20	FALSE
GWA-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

GWC-10	12/13/2017	28	FALSE
GWC-10	6/20/2018	41	FALSE
GWC-10	12/18/2018	22	FALSE
GWC-10	6/11/2019	24	FALSE
<b>GWC-10</b>	<b>12/13/2019</b>	<b>86.4</b>	<b>TRUE</b>
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-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	38	FALSE
GWC-10A	6/11/2019	ND<20	FALSE
GWC-10A	12/13/2019	31.2	FALSE
GWC-10A	6/25/2020	ND<20	FALSE
GWC-10A	12/16/2020	ND<20	FALSE
GWC-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-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE

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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-14A	12/13/2017	ND<20	FALSE
GWC-14A	6/21/2018	20	FALSE
GWC-14A	12/19/2018	ND<20	FALSE
GWC-14A	6/12/2019	ND<20	FALSE
GWC-14A	12/11/2019	ND<20	FALSE
GWC-14A	6/24/2020	ND<20	FALSE
GWC-14A	12/16/2020	ND<20	FALSE
GWC-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-17	12/13/2017	ND<20	FALSE
GWC-17	6/20/2018	ND<20	FALSE
GWC-17	12/20/2018	27	FALSE
GWC-17	6/13/2019	24	FALSE
GWC-17	12/11/2019	ND<20	FALSE
GWC-17	6/24/2020	ND<20	FALSE
GWC-17	12/16/2020	ND<20	FALSE
GWC-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-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	24	FALSE
GWC-3A	12/11/2019	28.8	FALSE
GWC-3A	6/25/2020	33.1	FALSE
GWC-3A	12/17/2020	ND<20	FALSE
GWC-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-4A	12/13/2017	25	FALSE
GWC-4A	6/21/2018	ND<20	FALSE
GWC-4A	12/18/2018	ND<20	FALSE
GWC-4A	6/12/2019	23	FALSE

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Zinc

<b>GWC-4A</b>	<b>12/12/2019</b>	<b>50</b>	<b>TRUE</b>
GWC-4A	6/24/2020	ND<20	FALSE
GWC-4A	12/18/2020	ND<20	FALSE
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
<b>GWC-4A</b>	<b>6/22/2023</b>	<b>57</b>	<b>TRUE</b>

GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	26	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	38.3	FALSE
GWC-5	6/24/2020	ND<20	FALSE
GWC-5	12/18/2020	ND<20	FALSE
GWC-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-7	12/13/2017	ND<20	FALSE
GWC-7	6/20/2018	30	FALSE
<b>GWC-7</b>	<b>12/19/2018</b>	<b>110</b>	<b>TRUE</b>
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-8	12/13/2017	ND<20	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8	12/12/2019	ND<20	FALSE
GWC-8	6/24/2020	ND<20	FALSE
GWC-8	12/17/2020	ND<20	FALSE
GWC-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-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	34	FALSE
GWC-8A	12/20/2018	42	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-8A	12/12/2019	ND<20	FALSE
GWC-8A	6/24/2020	ND<20	FALSE

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GWC-8A	12/16/2020	ND<20	FALSE
GWC-8A	6/17/2021	ND<20	FALSE
GWC-8A	12/16/2021	ND<20	FALSE
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-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	44	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE
GWC-16A	6/23/2020	ND<20	FALSE
GWC-16A	12/17/2020	ND<20	FALSE
GWC-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-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	26	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	34	FALSE
GWC-11	12/13/2019	23.3	FALSE
GWC-11	6/25/2020	40	FALSE
GWC-11	12/16/2020	ND<20	FALSE
GWC-11	6/16/2021	ND<20	FALSE
GWC-11	12/14/2021	ND<20	FALSE
GWC-11	6/8/2022	ND<20	FALSE
<b>GWC-11</b>	<b>12/13/2022</b>	<b>58.6</b>	<b>TRUE</b>
GWC-11	6/21/2023	ND<20	FALSE

GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	ND<20	FALSE
GWC-12	6/12/2019	ND<20	FALSE
GWC-12	12/10/2019	ND<20	FALSE
GWC-12	6/25/2020	ND<20	FALSE
GWC-12	12/22/2020	ND<20	FALSE
GWC-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-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	26	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE
GWC-12A	6/25/2020	ND<20	FALSE
GWC-12A	12/16/2020	ND<20	FALSE
GWC-12A	6/16/2021	ND<20	FALSE

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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

<b>GWC-15</b>	<b>12/14/2017</b>	<b>60</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/20/2018</b>	<b>56</b>	<b>TRUE</b>
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-18	12/14/2017	29	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	26	FALSE
GWC-18	6/12/2019	ND<20	FALSE
GWC-18	12/10/2019	38.7	FALSE
GWC-18	6/24/2020	ND<20	FALSE
GWC-18	12/16/2020	ND<20	FALSE
GWC-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-19R	12/14/2017	ND<20	FALSE
GWC-19R	6/20/2018	21	FALSE
GWC-19R	12/19/2018	ND<20	FALSE
GWC-19R	6/12/2019	ND<20	FALSE
GWC-19R	12/10/2019	ND<20	FALSE
GWC-19R	6/24/2020	ND<20	FALSE
GWC-19R	12/16/2020	ND<20	FALSE
GWC-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-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	23	FALSE
GWC-2	6/13/2019	28	FALSE
GWC-2	12/11/2019	25	FALSE
GWC-2	6/23/2020	27.8	FALSE
GWC-2	12/17/2020	ND<20	FALSE
GWC-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	ND<20	FALSE

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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-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	ND<20	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE
GWC-6	6/25/2020	ND<20	FALSE
GWC-6	12/18/2020	ND<20	FALSE
<b>GWC-6</b>	<b>6/16/2021</b>	<b>79</b>	<b>TRUE</b>
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-9	12/14/2017	46	FALSE
GWC-9	6/21/2018	45	FALSE
GWC-9	12/19/2018	38	FALSE
<b>GWC-9</b>	<b>6/13/2019</b>	<b>60</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/13/2019</b>	<b>78</b>	<b>TRUE</b>
GWC-9	6/25/2020	45.9	FALSE
GWC-9	12/18/2020	41.9	FALSE
GWC-9	6/16/2021	41.8	FALSE
<b>GWC-9</b>	<b>12/14/2021</b>	<b>49.9</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/8/2022</b>	<b>68.7</b>	<b>TRUE</b>
GWC-9	12/15/2022	41.6	FALSE
GWC-9	6/21/2023	40.4	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
GWC-24	12/15/2022	ND<20	FALSE
GWC-24	6/21/2023	ND<20	FALSE

<b>GWC-14</b>	<b>6/21/2018</b>	<b>67</b>	<b>TRUE</b>
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-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE

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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-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-14R	6/9/2022	ND<20	FALSE
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GWC-8R	6/9/2022	24.6	FALSE
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