

**2024 Second Semi-Annual  
Groundwater and Surface Water  
Monitoring Report  
N=58 Monitoring Event**

**Gun Club Road Landfill**



**Prepared for:**

**City of Atlanta Department of Public Works  
and  
DREAM ATL JV**

**Oasis Project #245186**

**Prepared by:**



**January 2025**



January 8, 2025

Environmental Program Manager  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 104  
Atlanta, GA 30354

**Attention:** Ms. Beverly Tipton, P.G.

**Subject: 2024 Second Semi-Annual Groundwater and Surface Water Monitoring Report**  
(N=58 Monitoring Event)  
Gun Club Road Landfill  
Atlanta, Fulton County, Georgia  
Permit Number 060-026D(SL)  
Oasis Project #245186

Dear Ms. Tipton:

On behalf of the City of Atlanta Department of Public Works and DREAM ATL JV, Oasis Consulting Services (Oasis) is pleased to submit this Second Semi-Annual Groundwater and Surface Water Monitoring Report for 2024 (N=58 Monitoring Event). This monitoring event occurred September 11-17, 2024. The sampling was performed in accordance with Georgia Environmental Protection Division (GAEPD) Solid Waste Management Rule 391-3-4-.14. Groundwater and surface water samples were collected and analyzed in accordance with the GAEPD approved *Groundwater Monitoring Plan* (Weston, 1996) and *Corrective Action Plan* (CH2M Hill, 2005) for the site.

Please feel free to contact us if you have any questions regarding this report. We can be reached at (678) 739-2400 or by electronic mail at [cmaughon@oasis-cs.com](mailto:cmaughon@oasis-cs.com) and [abutterfield@oasis-cs.com](mailto:abutterfield@oasis-cs.com).

Sincerely,  
**Oasis Consulting Services**

A handwritten signature in black ink, appearing to read "CM".

Chase Maughon  
Staff Geologist II

A handwritten signature in black ink, appearing to read "Ashley Butterfield".

Ashley Butterfield, P.G.  
Environmental Director

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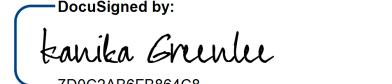
## CERTIFICATION STATEMENTS

### Certification Statement of Documents placed in the Facility Operating Record

I, Kanika Greenlee, the undersigned representative and/or landfill operator (LFO) of the City of Atlanta Gun Club Road Municipal Solid Waste Landfill, hereby certify that copies of this document have been placed in the Facility Operating Record and are securely stored or filed in the City of Atlanta Gun Club Road Landfill Manager's office.

### City of Atlanta, Department of Solid Waste Services

Printed Name: Kanika Greenlee Title: Interim Deputy Commissioner  
for Kanika Greenlee, Interim, Deputy Commissioner (Department of Public Works)

Signature:  DocuSigned by:  
Kanika Greenlee Date: 1/24/2025  
7D0C2AB6FB864C9...

### Seal and Signature of Registered Professional

I certify that this document, sampling events, and review of groundwater and surface water quality data, including interpretations and recommendations, were completed in accordance with Georgia Environmental Protection Division Solid Waste Management Rule 391-3-4-.14 by or under the direct supervision of a Georgia-registered professional geologist or a Georgia-registered professional engineer who is a qualified groundwater scientist.

Based on the N=58 Monitoring Event results, Oasis Consulting Services, on behalf of the City of Atlanta, certifies Gun Club Road Landfill complies with GA Compliance Rules & Regulations EPD Solid Waste Management Rule 391-3-4-.14.

Lead was detected slightly above the applicable ISWQS at upstream background surface water location GC-SWA-1. The detections appear to be associated with an off-site upstream source and not indicative of a release from the site. Oasis will continue monitoring and evaluating Lead in surface water as part of the Detection Monitoring Program.

### Oasis Consulting Services

Printed Name: Ashley Butterfield Title: Environmental Director

Signature: 

Date: 01/09/25

Georgia Stamp or Seal



## **1. INTRODUCTION**

On behalf of the City of Atlanta Department of Public Works and DREAM ATL JV, Oasis Consulting Services (Oasis) has completed the Groundwater and Surface Water Monitoring activities for the 2024 Second Semi-Annual Groundwater and Surface Water Monitoring Event (N=58 Monitoring Event) at Gun Club Road Landfill. This is the second semi-annual monitoring event performed at the facility in 2024, conducted September 11-17, 2024, in accordance with Georgia Environmental Protection Division (GAEPD) Solid Waste Management Rule 391-3-4-.14 and the GAEPD approved *Groundwater Monitoring Plan* (Weston, 1996) and *Corrective Action Plan* (CH2M Hill, 2005) for the Site.

### **1.1 Background**

Gun Club Road Landfill is located northwest of the City of Atlanta in Fulton County, Georgia, just north of Gun Club Road at latitude 33° 47' 38.86" and longitude 84° 27' 39.25" (Figure 1). The landfill operates under GAEPD Solid Waste Permit No. 060-026D(SL).

The facility has been under Assessment Monitoring since November 2004. Historically, groundwater has been analyzed for Appendix I parameters in previously non-impacted wells and Appendix II parameters where one or more constituents listed in Appendix I have been detected above background levels.

### **1.2 Groundwater and Surface Water Monitoring Program**

The current Groundwater and Surface Water Monitoring Program includes a network of 16 groundwater monitoring wells, two (2) piezometers, and four (4) surface water locations.

Assessment Monitoring is performed during the first semi-annual monitoring event and includes sampling select groundwater monitoring wells for Appendix I and Appendix II Volatile Organic Compounds (VOCs) and Metals, Mercury, Micro-Extractable VOCs 1,2-Dibromoethane and 1,2-Dibromo-3-Chloropropane (EDB and DBCP), Chlorinated Herbicides and Pesticides, Organophosphorus (OP) Pesticides, Polychlorinated Biphenyls (PCBs), Semi-Volatile Organic Compounds (SVOCs), Sulfide, Cyanide, Ferrous Iron Fe<sup>2+</sup> (measured in the field), and Monitored Natural Attenuation (MNA) parameters.

Detection Monitoring is performed during the second semi-annual event and includes sampling select groundwater monitoring wells for Appendix I VOCs and Metals, Mercury, and Micro-Extractable VOCs EDB and DBCP.

Surface water samples are collected from four (4) locations during both semi-annual events and analyzed for Surface Water Test Parameters (Weston, 1996) Total Metals, Mercury, Chloride, Chemical Oxygen Demand (COD), Cyanide, and Total Organic Carbon (TOC). Analytical parameters, comments, and notes for the groundwater monitoring wells and surface water sampling locations from the N=58 Monitoring Event are summarized in Table 1. The piezometer locations and monitoring well and surface water sampling locations are shown on Figure 2.

## 2. GROUNDWATER AND SURFACE WATER CHARACTERISTICS

### 2.1 Groundwater

Depth to groundwater measurements were made in 16 monitoring wells and two piezometers on September 11, 2024, with an electronic water level meter from the top of the well casings. Depths ranged from 11.00 feet, below the top of casing (BTOC) at monitoring well GC-GWC-12 to 57.77 feet, BTOC at GC-GWC-8. Groundwater elevations were calculated by subtracting the measured groundwater depths from the top of casing elevations (Table 2). The groundwater elevations were entered into Surfer<sup>TM</sup>, a computer software program (Golden Software, 2018), to assist in developing the potentiometric surface map of the shallow water bearing zone beneath the Site (Figure 3).

The potentiometric surface map indicates groundwater flow is north to northeast towards Proctor Creek. Groundwater monitoring well GC-GWC-7D is screened in the deeper aquifer and not utilized in the map. The potentiometric surface map shows groundwater monitoring wells GC-GWA-1, GC-GWA-2, and GC-GWA-3R are hydraulically upgradient of the landfill; therefore, groundwater data from these wells are considered to represent background conditions. Estimated horizontal groundwater seepage velocities were calculated using the following equation:

$$V_x = \frac{Ki_{avg}}{n_e}$$

where:  $V_x$  = estimated horizontal seepage velocity in feet per day (ft/day)

$K$  = hydraulic conductivity (minimum: 1.04 ft/day; maximum: 12.7 ft/day; derived from slug test data presented in the *Groundwater Monitoring Plan*)

$i_{avg}$  = average of hydraulic gradients from different locations across the Site (0.08 ft/ft); calculated as  $i = \frac{\Delta h}{\Delta x}$ , where  $\Delta h$  = difference in groundwater elevations (ft) and  $\Delta x$  = distance between monitoring wells (ft); and  $i_{avg} = \frac{i_1 + i_2 + i_3}{3}$

Area of Site	Groundwater Monitoring Wells Used to Calculate $\Delta x$ and $\Delta h$	Estimated Hydraulic Gradients
West	GC-GWA-2R to GC-GWC-2	0.097 ft/ft, $i_1$
Central	GC-PZA-1 to GC-GWC-5	0.061 ft/ft, $i_2$
East	GC-PZA-2 to GC-GWC-8	0.077 ft/ft, $i_3$

$n_e$  = estimated effective porosity (0.43; average range of values: 0.35 to 0.50 (Fetter,

1993))

Estimated Minimum Seepage Velocity:

$$V_{x \text{ minimum}} = \frac{1.04 \times 0.08}{0.43} = 0.19 \frac{\text{ft}}{\text{day}}, \text{ or } \approx 69 \text{ feet per year} \left( \frac{\text{ft}}{\text{yr}} \right)$$

Estimated Maximum Seepage Velocity:

$$V_{x \text{ maximum}} = \frac{12.7 \times 0.08}{0.43} = 2.31 \frac{\text{ft}}{\text{day}}, \text{ or } \approx 844 \text{ feet per year} \left( \frac{\text{ft}}{\text{yr}} \right)$$

The estimated horizontal seepage velocities represent a simplified average of a homogeneous and isotropic system and neglect potential vertical flow, heterogeneity, and anisotropic conditions.

## 2.2 Surface Water

The closest surface water body to the Site is Proctor Creek which generally flows north and west along the eastern and northern landfill boundaries (Figure 1) and converges with the Chattahoochee River west of the landfill. The surface water monitoring network includes one (1) sampling location at the sedimentation pond outfall (GC-SWC-2) in the northwest portion of the Site and three (3) locations (GC-SWA-1, GC-SWC-1, and GC-SWC-3) along Proctor Creek. Surface water sampling location GC-SWA-1 is the upstream background sampling point in the southeastern portion of the Site. The surface water sampling locations are shown on Figure 2.

## 3. GROUNDWATER AND SURFACE WATER SAMPLING ACTIVITIES

### 3.1 Groundwater Sampling

During the N=58 Monitoring Event, 16 groundwater monitoring wells were sampled September 11-17, 2024. Piezometers PZA-1 and PZA-2 were not sampled but utilized for depth to groundwater measurements. A complete list of monitoring wells in the network and parameters analyzed are shown in Table 1.

The monitoring wells were purged using Low-Flow and/or Multiple-Volume purge techniques prior to sampling to obtain representative groundwater samples by following EPA *Operating Procedure LSASDPROC-301-R6* (U.S. EPA, 2023). Decontamination procedures were performed in accordance with EPA *Operating Procedure LSASDPROC-205-R4* (U.S. EPA, 2020).

The following field parameters were measured using direct reading instruments to document stable groundwater quality conditions during the purging process and prior to collecting samples: Dissolved Oxygen (DO), pH, Specific Conductance (SC), Temperature, Turbidity, and Oxidation-Reduction Potential (ORP). The water quality stability criteria for pH, SC, and Turbidity were based on accepted guidance within at least three sets of readings within the following ranges:

- pH ( $\pm 0.1$  s.u)
- SC (+/-5%)
- Turbidity (<10 NTU)

The final field parameter readings prior to sampling are summarized in Table 3 and field sampling forms for each groundwater monitoring well are included in Appendix A. The groundwater samples were labeled, packed on ice, and transported to Eurofins Environment Testing Southeast, LLC (Eurofins), an accredited laboratory in Atlanta, Georgia. Laboratory analytical data reports and chain of custody (COC) records are presented in Appendix B.

### **3.2 Surface Water Sampling**

Three (3) surface water locations (GC-SWA-1, GC-SWC-1, and GC-SWC-3) were sampled September 11, 2024, from locations along Proctor Creek (Figure 2), as designated in the *Groundwater Monitoring Plan*. GC-SWC-2 was determined to have insufficient flow during the N=58 monitoring event and therefore was not sampled. The surface water samples were analyzed for parameters according to the 2024 Groundwater and Surface Water Monitoring Program (N=58 Monitoring Event) shown in Table 1.

Surface water samples were collected by inserting pre-cleaned sample bottles into the water with the opening pointed upstream. Readings of DO, pH, SC, Temperature, Turbidity, and ORP were made in the field prior to sampling and summarized in Table 4. The surface water samples were labeled, packed on ice, and transported to Eurofins for laboratory analysis. The field sampling form for the surface water samples is included in Appendix A. Laboratory analytical data reports and COC records are presented in Appendix B.

### **3.3 Quality Assurance/Quality Control (QA/QC)**

Groundwater and surface water sampling also included the following Quality Assurance/Quality

Control samples:

- Field duplicate samples
- Matrix spike and matrix spike duplicates
- Ambient field blank
- Equipment rinsate blank
- Trip blanks

Duplicate samples were collected from groundwater monitoring wells GC-GWA-1 (Duplicate 1) and GC-GWC-11 (Duplicate 2) and surface water sampling location GC-SWC-3 (Duplicate 3). An Equipment Blank, Field Blank, and Trip Blank(s) were collected to document that low level contaminants were not introduced to the environmental samples from the sampling equipment and/or ambient environment, during the shipping process, and to verify adequate decontamination procedures were followed. The duplicates and blanks were analyzed for the same constituents as the groundwater and/or surface water samples shown in Table 1. Laboratory analytical data reports and COC records for the blanks and duplicates are presented in Appendix B.

## **4. GROUNDWATER ANALYTICAL RESULTS**

The groundwater laboratory analytical results for the N=58 Monitoring Event are summarized in Table 3. Constituents are listed only if they were detected above laboratory reporting limits.

### **4.1 Metals**

Seven Metals (Barium, Beryllium, Chromium, Cobalt, Copper, Nickel, and Zinc) were detected above laboratory reporting limits in groundwater samples.

- Barium was detected in 10 monitoring wells at concentrations ranging from 0.022 milligrams per liter (mg/L) in GC-GWA-1 to 0.17 mg/L in GC-GWC-10.
- Beryllium was detected in one (1) monitoring well, GC-GWC-2, at a concentration of 0.0011 mg/L.
- Chromium was detected in one (1) monitoring well, GC-GWC-2, at a concentration of 0.058 mg/L.
- Cobalt was detected in one (1) monitoring well, GC-GWC-7, at a concentration of 0.060 mg/L.
- Copper was detected in two (2) monitoring wells, GC-GWA-3R & GC-GWC-2, at concentrations of 0.0026 mg/L and 0.0072 mg/L, respectively.
- Nickel was detected in six (6) monitoring wells at concentrations ranging from 0.0055 mg/L in GC-GWC-7 to 0.017 mg/L in GC-GWA-2R.
- Zinc was detected in two (2) monitoring wells, GC-GWA-2 and GC-GWC-3R, at concentrations of 0.017 mg/L and 0.01 mg/L, respectively.

### **4.2 Volatile Organic Compounds (VOCs)**

Four VOCs (1,4-Dichlorobenzene, Chlorobenzene, Chloroform, and Toluene) were detected above laboratory reporting limits in groundwater samples.

- 1,4-Dichlorobenzene was detected in four (4) monitoring wells at concentrations ranging from 6.7 micrograms per liter ( $\mu\text{g}/\text{L}$ ) in GC-GWC-9 to 17  $\mu\text{g}/\text{L}$  in GC-GWC-7 & GC-GWC-7D.
- Chlorobenzene was detected in three (3) monitoring wells, GC-GWC-7, GC-GWC-7D,

and GC-GWC-9, at concentrations of 5.6 µg/L, 6.2 µg/L, and 5.4 µg/L, respectfully.

- Chloroform was detected in one (1) monitoring well, GC-GWC-4, at a concentration of 12 µg/L.
- Toluene was detected in one (1) monitoring well, GC-GWC-3R, at a concentration of 13 µg/L.

#### **4.3 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-Chloropropane (DBCP)**

Micro-Extractable VOCs EDB and DBCP were not detected above laboratory reporting limits in groundwater samples this event.

#### **4.4 Quality Assurance/Quality Control Results**

No constituents were detected above laboratory reporting limits in the Trip Blanks and Field Blank samples. Duplicate 1 and Duplicate 2 had similar concentrations to the respective groundwater samples from the same monitoring wells, indicating acceptable representativeness and reproducibility. The duplicate sample results are summarized in Table 3.

## **5. STATISTICAL EVALUATION OF RESULTS**

A statistical evaluation was conducted in general accordance with GAEPD Solid Waste Management Rule 391-3-4-.14, and the technical standards described in *Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance* (U.S. EPA, 2009). An environmental statistical analysis software package Starpoint ChemStat® was utilized for evaluating the N=56 analytical results and determining the most appropriate statistical methods for identifying statistically significant differences between downgradient compliance and upgradient background well(s) constituent concentrations as well as statistical exceedances of established GWPSs. The statistical procedures implemented depended on the quantity and distribution of current and historical detections for specific constituents.

Automatic inter-well analysis of variance (ANOVA) and inter-well prediction limit analyses were applied as initial tests for identifying statistically significant differences. Both statistical analysis procedures begin with transforming the data to the original concentrations and replacing non-detects (ND) with one half the detection limit. If there were greater than 15% NDs and/or equal variance was not exhibited, a non-parametric test was used, otherwise equal variance and normality were tested, respectfully, for the ANOVA analysis. If there were greater than 90% NDs, the Poisson prediction limit test was applied, and if greater than 15% NDs, the non-parametric prediction limit was applied, otherwise, normality was tested for the inter-well prediction limit analysis. Next, if there were greater or fewer than 50 measurements, Shapiro-Francia and Shapiro-Wilks normality tests were applied, respectfully, for both ANOVA and inter-well prediction limit analyses. If normality passed, parametric ANOVA and parametric prediction limit tests were applied, and if normality failed, the data was log transformed and equal variance and/or normality tests were applied to the natural logarithm of the data for the ANOVA and inter-well prediction limit analyses, respectfully. If a parametric test was appropriate, the parametric ANOVA or parametric prediction limit tests were applied to the original and/or natural logarithm of the data as appropriate. If a non-parametric test was necessary, the Kruskal-Wallis non-parametric ranking test and non-parametric prediction limit or Poisson prediction limit were applied according to the percentage of NDs for the ANOVA and inter-well prediction limit analyses, respectfully.

To confirm constituents with statistically significant differences identified as a group from the

initial automatic statistical analysis tests, individual non-parametric data set analyses were performed on all compliance wells for each constituent based on the percentage of NDs. As an inter-well comparison, non-parametric prediction limit tests are useful for comparing individual compliance well constituent concentrations to pooled background data, data not normally distributed, and/or if there are an abundance of NDs. To adjust for ND laboratory data, ND results were substituted with detection limits for constituents containing greater than 15% NDs and one half the detection limit for constituents containing less than 15% NDs.

Constituents with 15 to 90% NDs and not normally distributed were evaluated with Kruskal-Wallis ANOVA non-parametric rank and inter-well Non-Parametric Prediction Limit tests for identifying constituent concentrations and corresponding well(s) indicative of a statistically significant increase (SSI) compared to background levels. The tests determine which compliance wells have elevated constituent concentrations with respect to background levels and are recommended by U.S. EPA for data that don't follow a normal distribution and/or with an abundance of NDs. The Kruskal-Wallis and Non-Parametric Prediction Limit tests compare historical constituent concentrations in each downgradient compliance well to the group of background well(s) and concentrations in each compliance well during the current sampling event to the historical maximum concentration in the background well(s), respectfully. The Kruskal-Wallis test determines which compliance wells have elevated concentrations with respect to background levels, but not which specific sampling event and detected concentration caused the statistical trigger; therefore, the Non-Parametric Prediction Limit test was used to confirm if the statistically significant differences identified as a group via the Kruskal-Wallis method were caused by detections from the current monitoring event or previous events. An SSI was confirmed if reported by both the Kruskal-Wallis and Non-Parametric Prediction Limit tests. This dual method approach considers historical pooled background and compliance data with current detected concentrations to increase the confidence and statistical accuracy of the reported SSIs, and accounts for anomalous outliers that may trigger SSIs or false positives that don't reflect the overall trends and characteristics of the Site.

Constituents with greater than 90% NDs and not normally distributed were evaluated using an inter-well Poisson Prediction Limit test. The test compares downgradient compliance well

constituent concentrations to upper prediction limits of the background well(s) concentrations to a 95% significance. The sum of concentrations from background well samples for a specified constituent were used to determine the Poisson prediction limit. The number of recent sampling dates to compare to the prediction limit were specified and sample concentrations from the number of dates were summed and compared to the prediction interval. The process was repeated for each compliance well.

Representative background concentrations were defined by hydraulically upgradient monitoring wells GC-GWA-1, GC-GWA-2, and GC-GWA-3R. Ten years of previous laboratory data plus the N=58 Monitoring Event data were used for the statistical evaluation. The statistical methods applied and associated ChemStat® output sheets are included in Appendix C.

## **5.1 Background Comparison**

The constituents and corresponding well(s) with SSIs, defined at a 5% significance level including tie-breaking evaluations defined by ChemStat®, compared to background levels are identified in Table 5. One Metal (Barium) and three VOCs (1,4-Dichlorobenzene, Chlorobenzene, & Chloroform) exhibited SSIs compared to background levels at the following wells:

- Barium: GC-GWC-2, GC-GWC-3R, GC-GWC-4, GC-GWC-6, GC-GWC-7, GC-GWC-9, and GC-GWC-10
- 1,4-Dichlorobenzene: GC-GWC-7, GC-GWC-7D, and GC-GWC-9
- Chlorobenzene: GC-GWC-7D and GC-GWC-9
- Chloroform: GC-GWC-4

## **5.2 GWPS Comparison**

Constituent concentrations per corresponding well(s) with SSIs were compared to established Groundwater Protection Standards (GWPSs) developed in compliance with GAEPD Solid Waste Management Rule 391-3-4-.14 and approved GAEPD letter dated February 11, 2002. Updated *Primary Maximum Contaminant Levels (MCLs) for Drinking Water* (e.g., GA Compliance Rules & Regulations (GAEPD Rule 391-3-5-.18)) were incorporated for constituents not included on the approved 2002 list as GWPSs. The Primary MCLs were recently updated and filed through

October 29, 2024. A GWPS exceedance is reported only if a constituent was both identified as an SSI and detected at a concentration above GWPSs during the current monitoring event. Constituents with SSIs exceeding GWPSs were not identified during the N=58 Monitoring Event (Table 6).

### **5.3 Time-Series Comparison**

Multi-well time-series graphs were generated for comparing constituent concentrations per corresponding monitoring well(s) with SSIs during the current event to background levels and GWPSs and identifying extreme outliers and/or anomalies in the data over time. The time-series graphs are included in Appendix D and summarized below.

- Barium concentrations have been stable since 2012, except for elevated detections in GC-GWC-3R in 2016 and 2018, and less than 0.3 mg/L.
- 1,4-Dichlorobenzene concentrations are consistently below the GWPS and have generally decreased since 2018 in GC-GWC-7, GC-GWC-7D, and GC-GWC-9.
- Chlorobenzene concentrations are consistently below the GWPS and have been generally stable since 2014, except for elevated detections in GC-GWC-7D and GC-GWC-9 in 2018.
- Chloroform has not been detected above laboratory reporting limits at GC-GWC-4 for at least the last 10 years until the current N=58 sampling event. Chloroform is a common laboratory contaminant.

## **6. SURFACE WATER ANALYTICAL RESULTS**

The surface water laboratory analytical results for the N=58 Monitoring Event are summarized in Table 4. Constituents are listed only if they were detected above laboratory reporting limits. Detected constituent concentrations in surface water samples were compared to established applicable In-Stream Water Quality Standard(s) (ISWQS) developed in compliance with GAEPD Chapter 391-3-6, Rule 391-3-6-03 *Water Use Classifications and Water Quality Standards*, as approved by U.S. EPA Region 4. For constituents with no established ISWQS, GWPSs were incorporated. Note ISWQSs are not established for general chemistry parameters.

- Barium was detected at every surface water sampling location ranging in concentrations from 0.045 mg/L at GC-SWA-1 & GC-SWC-1 to 0.049 mg/L at GC-SWC-2, below the ISWQS (GWPS) of 2 mg/L.
- Lead was detected at one surface water location, GC-SWA-1, at a concentration of 0.0016 mg/L, slightly above the ISWQS of 0.0012 mg/L.
- Chloride was detected at every surface water location ranging in concentrations from 18 mg/L at GC-SWC-3 to 20 mg/L at CS-SWA-1.
- TOC was detected at every location ranging in concentrations from 4.5 mg/L at GC-SWC-1 & GC-SWA-1 to 4.6 mg/L at GC-SWC-3.

Other surface water parameters analyzed were not detected above laboratory reporting limits. The duplicate sample had similar concentrations to the respective surface water sample from the same location, indicating acceptable representativeness and reproducibility. The duplicate sample results are summarized in Table 4.

## **7. SUMMARY AND CONCLUSIONS**

### **7.1 Summary of Findings**

The N=58 Monitoring Event was conducted September 11-17, 2023, in accordance with GAEPD Solid Waste Management Rule 391-3-4-.14 and approved *Groundwater Monitoring Plan* and *Corrective Action Plan*. Sixteen (16) groundwater monitoring wells and four (4) surface water locations were sampled.

- Depths to groundwater ranged from 11.00 feet, BTOC at GC-GWC-12 to 57.77 feet, BTOC at GC-GWC-8. Groundwater flow is generally north to northeast towards Proctor Creek. Using the three calculated hydraulic gradients across the Site, the average hydraulic gradient was approximately 0.08 ft/ft with estimated horizontal seepage velocities ranging from approximately 69 to 844 ft/yr.
- Seven Metals (Barium, Beryllium, Chromium, Cobalt, Copper, Nickel and Zinc) and four VOCs (1,4-Dichlorobenzene, Chlorobenzene, Chloroform, and Toluene) were detected in groundwater samples.
- One Metal (Barium) and three VOCs (1,4-Dichlorobenzene, Chlorobenzene, and Chloroform) exhibited SSIs compared to background levels but were below GWPSSs.
- Micro-Extractable VOCs EDB and DBCP were not detected in groundwater samples.
- Two Metals (Barium and Lead) were detected in surface water samples. The detected Lead concentrations at GC-SWA-1 was slightly above the ISWQS.

### **8.2 Conclusions and Recommendations**

The N=58 Monitoring Event has been completed with a copy of this report placed in the facility's operating record. The City of Atlanta will continue post-closure care monitoring services with the 2025 First Semi-Annual Groundwater and Surface Water Monitoring Event (N=59) in the first half of 2025 and will include sampling and analyzing select groundwater monitoring wells for Appendix I and Appendix II VOCs and Metals, Mercury, Micro-Extractable VOCs EDB and DBCP, Chlorinated Herbicides and Pesticides, O-P Pesticides, PCBs, SVOCs, Sulfide, Cyanide, Ferrous Iron Fe<sup>2+</sup>, and MNA parameters, and four (4) surface water locations for Surface Water Test Parameters.

Based on the N=58 Monitoring Event results, Oasis Consulting Services, on behalf of the City of Atlanta, certifies Gun Club Road Landfill complies with GA Compliance Rules & Regulations EPD Solid Waste Management Rule 391-3-4-.14. Lead was detected slightly above the ISWQS at surface water location GC-SWA-1. Oasis recommends Lead continue to be evaluated in surface water as part of the Detection Monitoring Program.

## 8. REFERENCES

- ChemPoint® Standard Software for Windows, Starpoint Software, Inc. 2011.
- ChemStat®, Pointstar Software for Windows, Starpoint Software, Inc. 2011.
- CH2M Hill, 2005, *Corrective Action Plan*, Gun Club Road Landfill, June 2005.
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## **TABLES**

**Table 1.**

2024 Groundwater and Surface Water Monitoring Program  
 2024 Second Semi-Annual Groundwater and Surface Water Monitoring Report  
 N=58 Monitoring Event (September 11-17, 2024)  
 Gun Club Road Landfill, Atlanta, Georgia

Event (N)	QTY	GW/SW	Parameters	Locations	Comments/Notes
56	18	GW	Depth to Groundwater Measurements	Sixteen (16) wells: GC-GWA-1, GC-GWA-2R, GC-GWA-3R, GC-GWC-1, GC-GWC-2, GC-GWC-3R, GC-GWC-4, GC-GWC-5, GC-GWC-6, GC-GWC-7, GC-GWC-7D, GC-GWC-8, GC-GWC-9, GC-GWC-10, GC-GWC-11, GC-GWC-12, and two (2) piezometers: GC-PZA-1 and GC-PZA-2	PZA-1 discovered during N=46 Event. Monitoring well GC-GWC-7D not used to develop potentiometric surface map.
	17	GW/QA/QC	Appendix I VOCs, Appendix I Metals + Hg, and Micro-Extractable VOCs EDB/DBCP	Thirteen (13) wells: GC-GWA-1, GC-GWA-2R, GC-GWA-3R, GC-GWC-1, GC-GWC-2, GC-GWC-3R, GC-GWC-4, GC-GWC-5, GC-GWC-6, GC-GWC-7, GC-GWC-8, GC-GWC-9, and GC-GWC-10. Four (4) samples: two (2) Duplicates, Field Blank, and Equipment Blank	Detection Monitoring and Quality Assurance/Quality Control. Per EPD, Hg is analyzed due to detects during N=30 and N=31.
	3	GW	Appendix I VOCs	Three (3) wells: GC-GWC-7D, GC-GWC-11 and GC-GWC-12	
	5	SW/QA/QC	Surface Water Test Parameters (Chloride, COD, Total Metals, Hg, TOC, and Cyanide)	Four (4) samples: GC-SWA-1, GC-SWC-1, GC-SWC-2, GC-SWC-3, and one (1) Duplicate.	Surface Water Monitoring and Quality Assurance/Quality Control

**NOTES:**

Appendix I Volatile Organic Compounds (VOCs) by EPA Method 8260D  
 Micro-Extractable VOCs by EPA Method 8011  
 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-Chloropropane (DBCP)  
 Appendix I Metals by EPA Method 6020B  
 Mercury (Hg) by EPA Method 7470A

Chemical Oxygen Demand (COD) by EPA Method 410.4  
 Cyanide by EPA Method 9014  
 Total Organic Carbon (TOC) by EPA Method 9060A  
 Chloride by EPA Method 9056A

Prepared by: CM 9/11/2024  
 Checked by: AS 10/11/2024

**Table 2.**

Groundwater Elevation Data

2024 Second Semi-Annual Groundwater and Surface Water Monitoring Report

N=58 Monitoring Event (September 11, 2024)

Gun Club Road Landfill, Atlanta, Georgia

<b>Station ID</b>	<b>Northing</b>	<b>Easting</b>	<b>TOC Elevation (feet, msl)</b>	<b>Depth to Water (feet, BTOC)</b>	<b>Groundwater Elevation (feet, msl)</b>
GC-GWA-1	1380384.32	2205846.36	895.44	23.67	871.77
GC-GWA-2R	1380055.96	2206072.22	936.56	38.48	898.08
GC-GWA-3R	1379204.62	2207138.77	960.91	50.05	910.86
GC-GWC-1	1380992.35	2205749.12	839.17	42.45	796.72
GC-GWC-2	1380945.99	2206166.51	837.08	25.80	811.28
GC-GWC-3R	1381188.36	2206604.50	806.58	28.12	778.46
GC-GWC-4	1381243.49	2206973.88	792.20	13.81	778.39
GC-GWC-5	1381162.46	2207232.11	792.70	13.40	779.30
GC-GWC-6	1381113.83	2207710.35	793.82	13.75	780.07
GC-GWC-7	1380980.03	2208104.71	817.39	33.09	784.30
GC-GWC-7D	1380996.19	2208100.25	814.82	28.51	786.31
GC-GWC-8	1380785.57	2208496.83	862.75	57.77	804.98
GC-GWC-9	1380394.93	2208471.51	829.63	31.41	798.22
GC-GWC-10	1379861.39	2208477.40	839.54	39.36	800.18
GC-GWC-11	1381159.30	2208067.72	797.42	16.03	781.39
GC-GWC-12	1381241.70	2208445.63	792.96	11.00	781.96
GC-PZA-1	1379639.52	2206701.01	915.37	38.06	877.31
GC-PZA-2	1379545.30	2207707.53	970.02	51.74	918.28

**NOTES:**

BTOC = below top of casing

msl = mean sea level

TOC = top of casing

Prepared by: CM 9/12/2024

Checked by: AS 10/11/2024

**Table 3.**

Summary of Groundwater Analytical Detections and Field Parameters  
 2024 Second Semi-Annual Groundwater and Surface Water Monitoring Report  
 N=58 Monitoring Event (September 11-17, 2024)  
 Gun Club Road Landfill, Atlanta, Georgia

Analyte	GC-GWA-1 9/16/2024	GC-GWA-1 9/16/2024	GC-GWA-2R 9/17/2024	GC-GWA-3R 9/16/2024	GC-GWC-1 DRY 9/17/2024	GC-GWC-2 9/11/2024	GC-GWC-3R 9/11/2024	GC-GWC-4 9/11/2024	GC-GWC-5 9/16/2024	GC-GWC-6 9/16/2024	GC-GWC-7 9/16/2024	GC-GWC-7D 9/17/2024	GC-GWC-8 9/16/2024	GC-GWC-9 9/16/2024	GC-GWC-10 9/16/2024	GC-GWC-11 9/11/2024	GC-GWC-11 9/11/2024	GC-GWC-12 9/11/2024																
<b>Total Metals, mg/L</b>					Duplicate 1												Duplicate 2																	
Barium	<b>0.022</b>	<b>0.022</b>	<b>0.028</b>	BRL	DRY	<b>0.16</b>	<b>0.11</b>	<b>0.069</b>	<b>0.049</b>	<b>0.11</b>	<b>0.190</b>	NT	BRL	<b>0.14</b>	<b>0.17</b>	NT	NT	NT																
Beryllium	BRL	BRL	BRL	DRY	<b>0.0011</b>	BRL	BRL	BRL	BRL	BRL	NT	BRL	BRL	BRL	NT	NT	NT																	
Chromium	BRL	BRL	BRL	DRY	<b>0.0058</b>	BRL	BRL	BRL	BRL	BRL	NT	BRL	BRL	BRL	NT	NT	NT																	
Cobalt	BRL	BRL	BRL	DRY	BRL	BRL	BRL	BRL	BRL	BRL	<b>0.060</b>	NT	BRL	BRL	BRL	NT	NT	NT																
Copper	BRL	BRL	BRL	DRY	<b>0.0026</b>	BRL	<b>0.0072</b>	BRL	BRL	BRL	BRL	NT	BRL	BRL	BRL	NT	NT	NT																
Nickel	BRL	BRL	<b>0.017</b>	DRY	<b>0.0097</b>	<b>0.011</b>	BRL	BRL	BRL	<b>0.0055</b>	NT	<b>0.0071</b>	<b>0.0076</b>	BRL	NT	NT	NT																	
Zinc	BRL	BRL	<b>0.017</b>	BRL	DRY	<b>0.01</b>	BRL	BRL	BRL	BRL	NT	BRL	BRL	BRL	NT	NT	NT																	
<b>Volatile Organic Compounds, µg/L</b>																																		
1,4-Dichlorobenzene	BRL	BRL	BRL	DRY	BRL	BRL	BRL	BRL	BRL	<b>17</b>	<b>17</b>	BRL	<b>6.7</b>	BRL	<b>12</b>	<b>13</b>	BRL																	
Chlorobenzene	BRL	BRL	BRL	DRY	BRL	BRL	BRL	BRL	BRL	<b>5.6</b>	<b>6.2</b>	BRL	<b>5.4</b>	BRL	BRL	BRL	BRL																	
Chloroform	BRL	BRL	BRL	DRY	BRL	<b>12</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL																	
Toluene	BRL	BRL	BRL	DRY	BRL	<b>13</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL																	
<b>Micro-Extractable Volatile Organic Compounds, µg/L</b>																																		
Micro-Extractable Volatile Organic Compounds	BRL	BRL	BRL	DRY	BRL	BRL	BRL	BRL	BRL	NT	BRL	BRL	BRL	NT	NT	NT	NT																	
<b>Field Parameters</b>																																		
pH, s.u.	5.50	5.50	6.11	5.61	DRY	6.14	6.22	5.96	6.03	5.56	6.07	5.72	6.86	6.31	6.55	5.89	5.89	5.76																
Conductivity, µS/cm	78.0	78.0	429.7	130.8	DRY	565	592	403.1	434.8	205.4	1112	1006	1064	1505	799	821	821	184																
Turbidity, NTU	0.87	0.87	1.95	0.93	DRY	177	7.25	4.62	4.25	2.57	7.19	1.28	2.88	6.29	5.42	3.37	3.37	38.6																
Dissolved Oxygen, mg/L	2.77	2.77	0.29	5.63	DRY	2.30	0.87	0.69	0.51	0.13	0.54	0.18	0.26	0.61	1.67	0.80	0.80	1.17																
Temperature, °C	17.36	17.36	21.4	21.1	DRY	22.19	20.0	18.5	18.3	19.6	20.9	19.1	18.9	20.3	18.8	18.51	21.12																	
Oxidation Reduction Potential, mV	291.7	291.7	-13.6	145.4	DRY	11.0	-32.2	146.2	-284.6	-135.1	-86.9	170.0	-123.1	-136.6	-116.9	-51.1	-51.1	115.2																
<b>NOTES:</b>	The analytical results detected above laboratory reporting limits are bold																																	
Sample dates are shown below each monitoring well																																		
°C = degree Celsius																																		
BRL = below reporting limit																																		
s.u. = standard unit																																		
µg/L = micrograms per liter																																		
mg/L = milligrams per liter																																		
µS/cm = microsiemens per centimeter																																		
mV = millivolts																																		
NT = not tested																																		
NTU = nephelometric turbidity unit																																		

Prepared by: CM 9/26/2024

Checked by: AS 10/11/2024

**Table 4.**

Summary of Surface Water Analytical Detections and Field Parameters  
 2024 Second Semi-Annual Groundwater and Surface Water Monitoring Report  
 N=58 Monitoring Event (September 11-17, 2024)  
 Gun Club Road Landfill, Atlanta, Georgia

Analyte	Station ID	GC-SWA-1	GC-SWC-1	GC-SWC-2	GC-SWC-3	GC-SWC-3
	Sample Date	9/11/2024	9/11/2024	DRY	9/11/2024	9/11/2024
<b>Total Metals, mg/L</b>	<b>Standard (ISWQS)</b>					<b>Duplicate 3</b>
Barium	2 <sup>a</sup>	<b>0.045</b>	<b>0.045</b>	DRY	<b>0.049</b>	<b>0.046</b>
Lead	0.0012	<b>0.0016</b>	BRL	DRY	BRL	BRL
<b>General Chemistry, mg/L</b>						
Chloride (as CL)	NE	<b>20</b>	<b>19</b>	DRY	<b>18</b>	<b>18</b>
TOC - Total Organic Carbon	NE	<b>4.5</b>	<b>4.5</b>	DRY	<b>4.6</b>	<b>4.6</b>
<b>Field Parameters</b>						
pH, s.u.	NE	7.53	7.86	DRY	7.75	7.75
Conductivity, $\mu\text{S}/\text{cm}$	NE	278.7	291.6	DRY	286.5	286.5
Turbidity, NTU	NE	2.09	1.18	DRY	2.51	2.51
Dissolved Oxygen, mg/L	NE	6.97	9.41	DRY	7.61	7.61
Temperature, °C	NE	22.00	21.90	DRY	20.7	20.7
Oxidation Reduction Potential, mV	NE	11.6	20.8	DRY	-1.0	-1.0

**NOTES:**

ISWQS = In-Stream Water Quality Standard under 391-3-6-.03 in freshwater

Standard is based on GAEPD Rules and Regulations for Water Quality Control 391-3-6 filed through September 25, 2023

The analytical results detected above laboratory reporting limits are bold

The analytical results detected above the ISWQS are shaded

°C = degree Celsius

Prepared by: CM 9/26/2024

BRL = below reporting limit

Checked by: AS 10/11/2024

mg/L = milligrams per liter

 $\mu\text{S}/\text{cm}$  = microsiemens per centimeter

mV = millivolts

NE = none established

NTU = nephelometric turbidity unit

s.u. = standard unit

<sup>a</sup> = GWPS

**Table 5.**

Results of Statistical Analysis Compared to Background Levels  
 2024 Second Semi-Annual Groundwater and Surface Water Monitoring Report  
 N=58 Monitoring Event (September 11-17, 2024)  
 Gun Club Road Landfill, Atlanta, Georgia

Constituent(s)		Statistical Method	Comparison Decision	Identified Well(s)
<b>Metal</b>	Barium	Kruskal Wallis Non-Parametric; Non-Parametric Prediction Limit	Significant Increase	GC-GWC-2
				GC-GWC-3R
				GC-GWC-4
				GC-GWC-6
				GC-GWC-7
				GC-GWC-9
				GC-GWC-10
				GC-GWC-7
				GC-GWC-7D
				GC-GWC-9
<b>VOCs</b>	1,4-Dichlorobenzene	Kruskal Wallis Non-Parametric; Non-Parametric Prediction Limit	Significant Increase	GC-GWC-7D
	Chlorobenzene	Kruskal Wallis Non-Parametric; Non-Parametric Prediction Limit	Significant Increase	GC-GWC-9
	Chloroform	Parametric Prediction Limit	Significant Increase	GC-GWC-4

Prepared by: CM 11/11/2024

Checked by: LC 11/13/2024

**Table 6.**

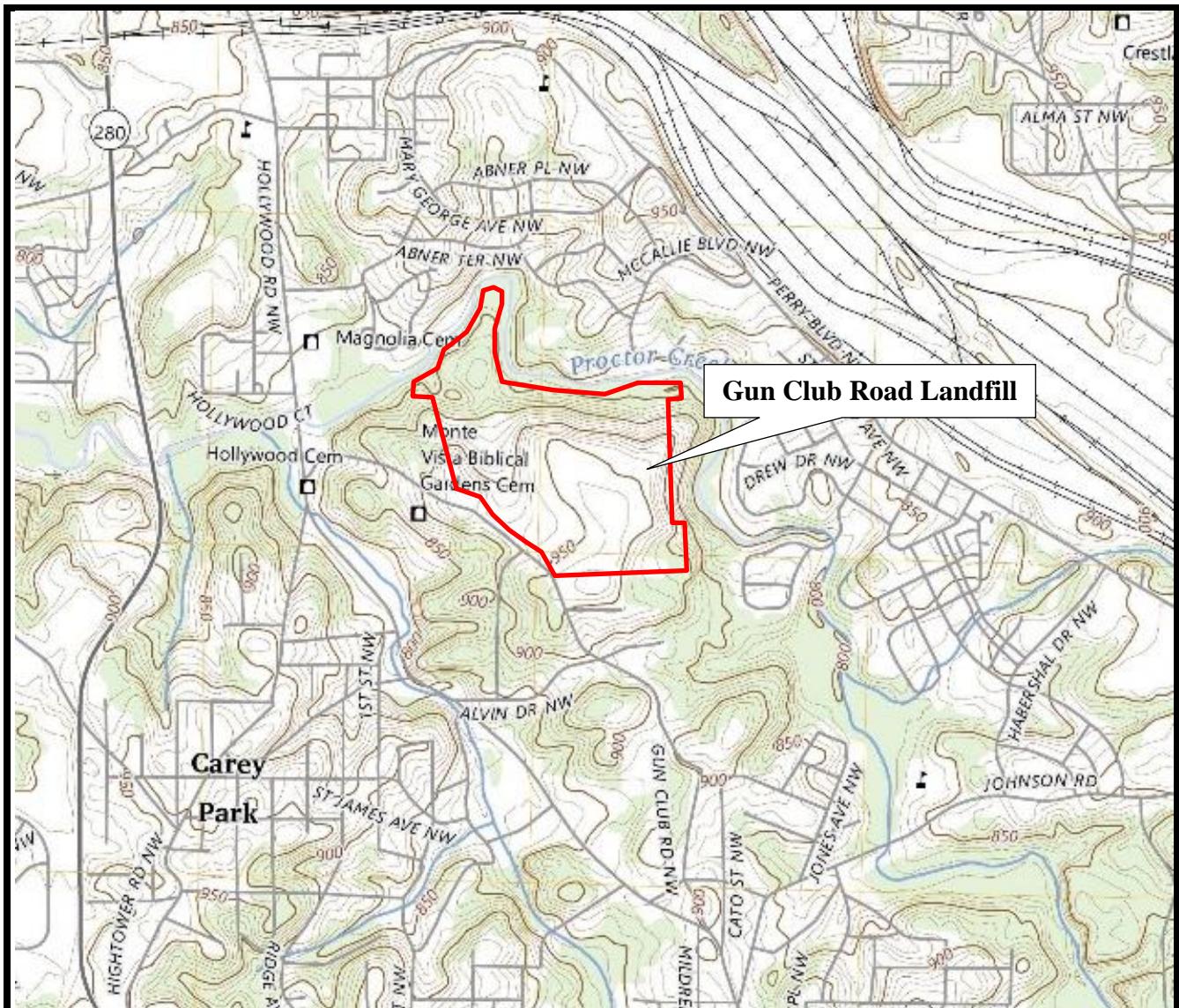
Results of Statistical Analysis Compared to Groundwater Protection Standards  
 2024 Second Semi-Annual Groundwater and Surface Water Monitoring Report  
 N=58 Monitoring Event (September 11-17, 2024)  
 Gun Club Road Landfill, Atlanta, Georgia

Constituent(s)		Identified Well(s)	N=58	GWPS	Comments	
<b>Metal</b> (mg/L)	Barium	GC-GWC-2	0.160	2	Does not exceed GWPS	
		GC-GWC-3R	0.110			
		GC-GWC-4	0.069			
		GC-GWC-6	0.110			
		GC-GWC-7	0.190			
		GC-GWC-9	0.140			
		GC-GWC-10	0.170			
<b>VOC</b> (µg/L)	1,4-Dichlorobenzene	GC-GWC-7	17	75	Does not exceed GWPS	
		GC-GWC-7D	17			
		GC-GWC-9	6.7			
	Chlorobenzene	GC-GWC-7D	6.2	100		
		GC-GWC-9	5.4			
	Chloroform	GC-GWC-4	12	70		

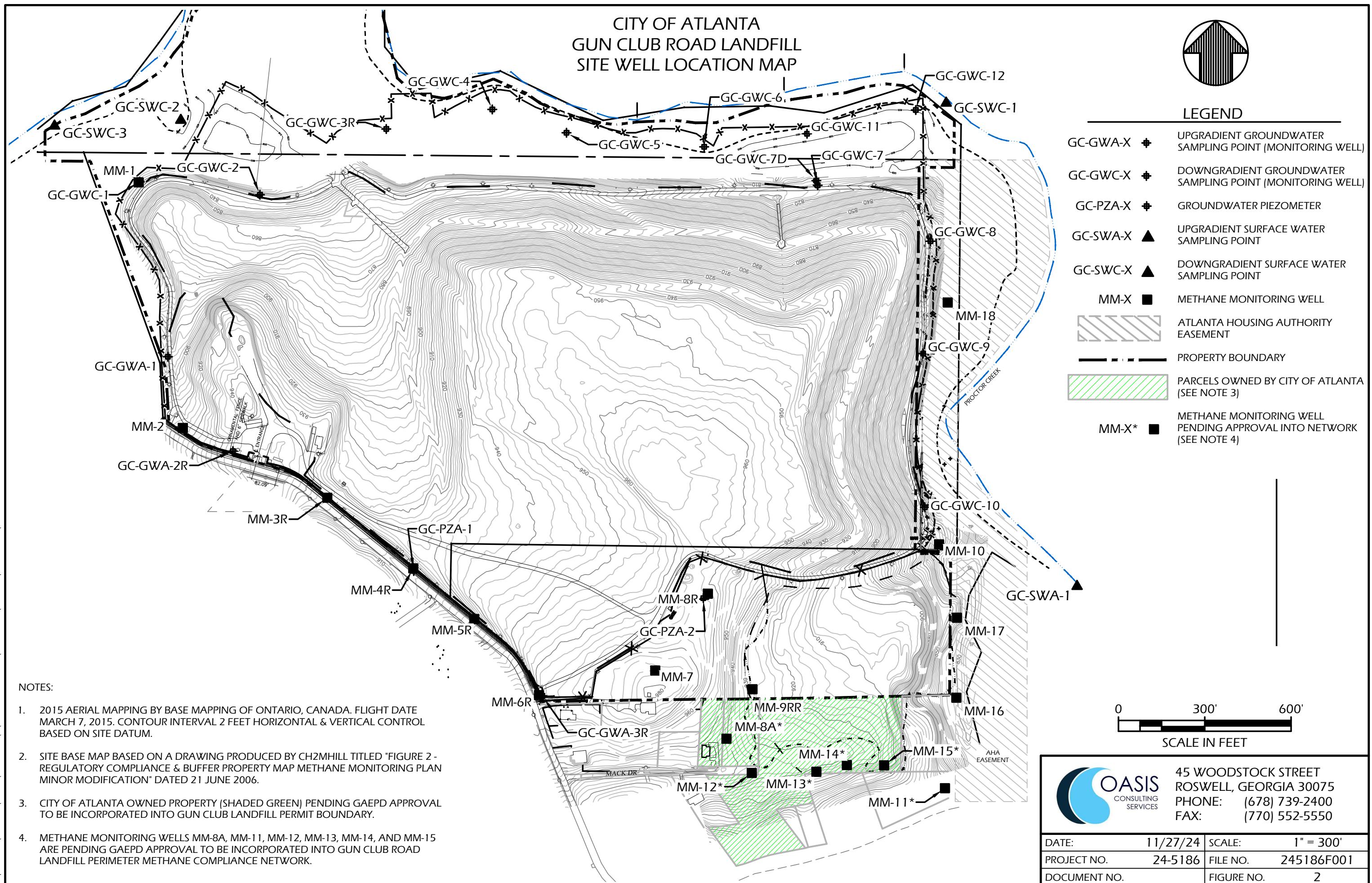
Prepared by: CM 11/11/2024

Checked by: LC 11/13/2024

## **FIGURES**



Legend	Figure 1 - Site Location & Topographic Map		Scale
Map Source: USGS The National Map, courtesy of the U.S. Geological Survey		<b>Gun Club Road Landfill</b> Permit Number 060-026D(SL) Atlanta, Fulton County, Georgia	$1'' \approx 1,660'$
<b>Map Date:</b> 2024			
<b>Project No.:</b> 245186	<b>Drawn by:</b> CM	<b>45 Woodstock Street</b> <b>Roswell, Georgia 30075</b>	



**CITY OF ATLANTA  
GUN CLUB ROAD LANDFILL  
POTENIOMETRIC SURFACE MAP  
(SEPTEMBER 11, 2024)**

LEGEND	
GC-GWA-X	UPGRADIENT GROUNDWATER SAMPLING POINT (MONITORING WELL)
GC-GWC-X	DOWNGRADIENT GROUNDWATER SAMPLING POINT (MONITORING WELL)
GC-PZA-X	GROUNDWATER Piezometer
GC-SWA-X	UPGRADIENT SURFACE WATER SAMPLING POINT
GC-SWC-X	DOWNGRADIENT SURFACE WATER SAMPLING POINT
MM-X	METHANE MONITORING WELL
	ATLANTA HOUSING AUTHORITY EASEMENT
	PROPERTY BOUNDARY
	PARCELS OWNED BY CITY OF ATLANTA (SEE NOTE 3)
MM-X*	METHANE MONITORING WELL PENDING APPROVAL INTO NETWORK (SEE NOTE 4)
	POTENIOMETRIC SURFACE ELEVATION (FT, MSL) (DASHED WHERE INFERRED)
	INTERPRETED GROUNDWATER FLOW DIRECTION
805.56	GROUNDWATER ELEVATION (FT, MSL)



0 300' 600'  
SCALE IN FEET

- NOTES:
1. 2015 AERIAL MAPPING BY BASE MAPPING OF ONTARIO, CANADA. FLIGHT DATE MARCH 7, 2015. CONTOUR INTERVAL 2 FEET HORIZONTAL & VERTICAL CONTROL BASED ON SITE DATUM.
  2. SITE BASE MAP BASED ON A DRAWING PRODUCED BY CH2MHILL TITLED "FIGURE 2 - REGULATORY COMPLIANCE & BUFFER PROPERTY MAP METHANE MONITORING PLAN MINOR MODIFICATION" DATED 21 JUNE 2006.
  3. CITY OF ATLANTA OWNED PROPERTY (SHADE GREEN) PENDING GAEPD APPROVAL TO BE INCORPORATED INTO GUN CLUB LANDFILL PERMIT BOUNDARY.
  4. METHANE MONITORING WELLS MM-8A, MM-11, MM-12, MM-13, MM-14, AND MM-15 ARE PENDING GAEPD APPROVAL TO BE INCORPORATED INTO GUN CLUB ROAD LANDFILL PERIMETER METHANE COMPLIANCE NETWORK.
  5. GROUNDWATER ELEVATION FROM WELL GC-GWC-7D WAS NOT USED TO CREATE POTENIOMETRIC SURFACE.



45 WOODSTOCK STREET  
ROSWELL, GEORGIA 30075  
PHONE: (678) 739-2400  
FAX: (770) 552-5550

DATE:	11/27/24	SCALE:	1" = 300'
PROJECT NO.	24-5186	FILE NO.	245186F001
DOCUMENT NO.		FIGURE NO.	3

## **APPENDIX A**

## **FIELD DATA SHEETS**



## **Groundwater Sampling Field Form**

**Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400**

## STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

 ORP: ± 20 mV

 Temperature: ± 1.0 degrees C

**DO:**  $\pm 0.2 \text{ mg/l}$  or  $\pm 10\%$

pH:  $\pm 0.1$  units

Specific Conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

**Sample Time :**

11:30

**Sampled by (Print Name):**

**Sample Date :**

9-16-2024

**Samplers Signature:**

Ashley Scott  
an ex



*5.9 gal = 1 Vol*

### Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA				Date	9/16/24		
Well ID	GC-GWA-2R										
Well Diameter (inches)	2	Depth to Water (ft, btoc)	38.48			Total Well Depth (ft, btoc)	75.3				
Purge Pump Type or Bailer:	MONSOON	Instrument Type:	YSI PRO DSS			Apera TN500 Turb Meter					
Well Volume (gal)	8.85 gal ≈ 1.5 Vol		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	9.991		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
0920	—	INT	—	38.48	6.04	19.5	419.9	1.24	3.19	18.8	
0930	1	1	0.1	43.87	6.02	19.9	404.9	0.54	27.9	23.3	
0940	1	2	0.1	47.77	5.99	20.4	382.9	0.45	34.2	25.7	
0950	1	3	0.1	50.86	5.96	20.5	362.4	0.42	26.2	25.4	
1000	1	4	0.1	52.95	5.99	20.8	377.2	0.54	22.5	19.1	
1010	1	5	0.1	56.74	6.02	20.9	405.9	0.47	28.6	8.4	
1020	1	6	0.1	59.76	6.05	21.1	412.9	0.43	38.2	0.7	
1030	1	7	0.1	62.71	6.08	21.2	421.5	0.35	28.1	-3.5	
1040	1	8	0.1	64.71	6.12	21.5	430.1	0.32	47.9	-14.5	
1050	1	9	0.1	64.71	6.11	21.4	429.7	0.29	43.6	-13.6	
1415									25.3		
9/17/24	0910							1.95			

#### STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or ±10%

Temperature: ± 1.0 degrees C

pH: ± 0.1 units

★ORP: ± 20 mV

★DO: ± 0.2 mg/L or ± 10%

Specific Conductance: ± 5%

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sample Time :

Vol 5 | Metals  
1100 | 0910

Sampled by (Print Name):

McLaughlin  
Gels

Sample Date :

9/16/24 | 9/17/24

Samplers Signature:



## Groundwater Sampling Field Form

19/09/24  
Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA					Date	9/16/24	
Well ID	GC-GWA-3R										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	50.05			Total Well Depth (ft, btoc)		83.8		
Purge Pump Type or Bailer:	Autoscan 210		Instrument Type:	YSI / Apera							
Well Volume (gal)	1.5V/8.1g		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)			Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
0930	0.7	0.7	0.07	50.60	5.73	18.8	132.8	5.40	1.66	170.9	Turb (2.98)
0940	1.4	1.4		54.30	5.78	19.1	137.5	5.19	2.77	159.0	
0950	2.1	2.1		56.35	5.72	20.6	143.9	5.41	3.44	143.9	
							136.4				
1000	2.8	57.00	5.71	21.3	137.5	4.57	1.83	138.6			
1010	3.5	57.55	5.71	21.5	138.5	4.49	1.13	136.2			
1020	4.2	58.81	5.69	21.4	138.0	4.60	0.83	136.5			
1030	4.9	59.51	5.67	20.8	134.4	4.04	1.73	139.2			
1040	5.6	59.45	5.67	20.9	134.5	3.69	1.01	138.1			
1050	6.3	59.30	5.67	21.0	135.1	3.42	2.98	136.1			
1100	7.0	60.32	5.63	21.5	135.6	3.55	1.30	140.9			
1110	7.7	60.95	5.61	21.0	130.9	5.61	1.21	145.7			

### STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Turbidity: < 10 NTU or ±10%

★ ORP: ± 20 mV

★ Temperature: ± 1.0 degrees C

★ DO: ± 0.2 mg/L or ± 10%

pH: ± 0.1 units

Specific Conductance: ± 5%

Sample Time : \_\_\_\_\_

Sampled by (Print Name): Carolin

Sample Date : \_\_\_\_\_

Samplers Signature: \_\_\_\_\_



## Groundwater Sampling Field Form

19282

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA					Date	9/16/24	
Well ID	GC-GWT-3R										
Well Diameter (inches)	2		Depth to Water (ft, btoc)				Total Well Depth (ft, btoc)				
Purge Pump Type or Bailer:			Instrument Type:								
Well Volume (gal)				Well Volume = (total depth - depth to water x well capacity)							
Purge Volume (gal)	10.0 gal			Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469							
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
1120	0.7	8.4	0.07	61.60	5.61	20.6	129.9	5.72	0.95	147.6	
1130	/	9.1	/	61.66	5.61	20.8	130.0	5.52	1.14	146.5	
1140	/	10.0	/	61.60	5.61	21.1	130.8	5.63	0.93	145.4	

STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or ±10%

★ ORP: ± 20 mV

★ Temperature: ± 1.0 degrees C

★ DO: ± 0.2 mg/L or ± 10%

pH: ± 0.1 units

Specific Conductance: ± 5%

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sample Time :

1145

Sampled by (Print Name):

C. N. 1-7

Sample Date :

9/16/24

Samplers Signature:



## **Groundwater Sampling Field Form**

**Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400**

## STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

ORP: ± 20 mV

Temperature:  $\pm$  1.0 degrees C

PO:  $\pm 0.2$  mg/L or  $\pm 10\%$

pH:  $\pm 0.1$  units

Specific Conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

**Sample Time :**

**Sampled by (Print Name):**

**Sample Date :**

**Samplers Signature:**



## Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA					Date	9-16-2024	
Well ID	GC-GWC-2										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	25.80			Total Well Depth (ft, btoc)	29.34			
Purge Pump Type or Bailer:	Pump		Instrument Type:	Geopump Monsoon		24758					
Well Volume (gal)	$3.54 \times 0.16 = 0.5664 \times 1.5 = 0.85$		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	1 gal - 1		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
12:25	0.25	Int.	0.025	28.66	6.22	22.96	683	0.54	8.71	-32.5	Turbidity did not stabilize; VOCs sampled only on 9-16-2024 per BN
12:30	0.25			28.80	6.15	20.35	559	1.62	109	-6.0	
12:50	0.5			28.91	6.15	21.04	552	2.10	350	5.0	
13:00	0.75			28.21	6.14	21.99	561	2.29	190	9.9	
13:10	1			28.61	6.14	22.19	565	2.30	99.2	11.0	
8-17-2024 8:40										177	

### STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or ±10%

ORP: ± 20 mV

Temperature: ± 1.0 degrees C

DO: ± 0.2 mg/L or ± 10%

pH: ± 0.1 units

Specific Conductance: ± 5%

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

VOC      Metals

Sample Time :

13:20      8:50

Sampled by (Print Name):

Ashley Scott

Sample Date :

9-16-2024      9-17-2024

Samplers Signature:

A.S.



## Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA					Date	9/11/24	
Well ID	GC-GWC-3R										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	28.12			Total Well Depth (ft, btoc)		41.71		
Purge Pump Type or Bailer:	MONSOON		Instrument Type:	YSI PRO DSS			Apera TN500 Turb Meter				
Well Volume (gal)	3.3991 ≈ 1.5 vol		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	3.5991		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
1120	—	INT.	—	28.12	6.04	17.7	584	1.50	52.6	-78.0	Sampled @ 1200 1125 due to historical turbidity problems - 32.2
1125	0.5	0.5	0.1	32.52	6.18	17.8	578	0.78	36.15	-81.2	
1130	0.5	1	0.1	34.86	6.09	18.1	536	0.60	110	-94.3	
1135	0.5	1.5	0.1	36.53	6.12	18.5	512	0.83	120	-89.1	
1140	0.5	2	0.1	37.33	6.16	18.8	537	0.77	89.7	-65.0	
1145	0.5	2.5	0.1	TOP	6.15	18.8	565	0.84	89.5	-53.0	
1150	0.5	3	0.1	37.81	6.22	19.2	571	0.78	59.7	-45.8	
1155	0.25	3.25	0.05	TOP	6.23	19.7	584	0.83	32.34	-33.0	
1200	0.25	3.5	0.05	37.85	6.22	20.0	592	0.87	15.7	= 2.8m	
1215										7.25	

STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or ±10%

★ ORP: ± 20 mV

★ Temperature: ± 1.0 degrees C

★ DO: ± 0.2 mg/L or ± 10%

pH: ± 0.1 units

Specific Conductance: ± 5%

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sample Time :

1215

Sampled by (Print Name):

Colin Vaughan

Sample Date :

9/11/24

Samplers Signature:

Colin



## **Groundwater Sampling Field Form**

**Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400**

## STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

 Temperature: ± 1.0 degrees C

pH:  $\pm 0.1$  units

**ORP:** ± 20 mV

**DO:**  $\pm 0.2 \text{ mg/L}$  or  $\pm 10\%$

instance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

### **Sample Time :**

1345

**Sampled by (Print Name):**

Maughan

**Sample Date :**

9/11/24

**Samplers Signature:**



## **Groundwater Sampling Field Form**

**Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400**

## STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

 Temperature: ± 1.0 degrees C

pH:  $\pm 0.1$  units

 ORP: ± 20 mV

 DO:  $\pm 0.2 \text{ mg/L}$  or  $\pm 10\%$

conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Turbidity: < 10 NTU or ±10%

Temperature:  $\pm 1.0$  degrees C

pH:  $\pm 0.1$  units

**Sample Time :**

~~REDACTED~~ 11:45

**Sampled by (Print Name):**

Sample Date :

9/11/24

**Samplers Signature:**

Evan Zeigler

John Jan



## **Groundwater Sampling Field Form**

**Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400**

## STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

 ORP: ± 20 mV

**A** Temperature:  $\pm 1.0$  degrees C.

pH: ± 0.1 units

Specific Conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

pm. ± 0.1 units

conductance.  $\pm 3\%$

#### **Sample Times**

### Sample Time

**Sampled by (Print Name):**

### Sample Data 1

10:00

9/16/24

**Samplers Signature:**

Evan Zeigler  
Jean Zeigler



## Groundwater Sampling Field Form

3

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA					Date	9/16/24	
Well ID	GC-GWC-7										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	33.09			Total Well Depth (ft, btoc)		39.7		
Purge Pump Type or Bailer:	Monsoon		Instrument Type:	YSI 950 DSS			Alera TN500 turb meter				
Well Volume (gal)	1,599.91 ≈ 1,500		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	2.25		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
1145	—	INT	—	33.09	6.05	20.7	1084	1.26	123	-82.5	Pump issues stirred up well at beginning  Sheen on top of water & odor noticed @ time of sample
1150	0.25	0.25	0.05	33.93	6.07	21.0	1120	0.81	55.7	-82.1	
1155	0.5	0.75	0.1	34.11	6.08	20.8	1125	0.71	30.8	-87.8	
1200	0.5	1.25	0.1	34.36	6.08	20.9	1128	0.62	19.64	-88.2	
1205	0.5	1.75	0.1	34.30	6.07	20.8	1112	0.56	13.09	-88.8	
1210	0.5	2.25	0.1	34.30	6.07	20.9	1112	0.54	7.19	-86.9	
<b>STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS</b>											
Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)											
Turbidity: < 10 NTU or ±10%		ORP: ± 20 mV									
Temperature: ± 1.0 degrees C		DO: ± 0.2 mg/L or ± 10%									
pH: ± 0.1 units		Specific Conductance: ± 5%									

**Sample Time :** 1225      **Sample Date :** 9/16/24

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sampled by (Print Name):

Maughon

Samplers Signature:

CM



## **Groundwater Sampling Field Form**

**Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400**

## STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

 Temperature: ± 1.0 degrees C

pH:  $\pm 0.1$  units

Page 10 of 10

THE CONSECUTIVE WATER QUALITY

URP: ±20 mV

DO:  $\pm 0.2 \text{ mg/L}$  or  $\pm 10\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.).

Sample Time :

1400

**Sampled by (Print Name):**

Maughon

**Sample Date :**

9/16/24

**Samplers Signature:**



## Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA				Date	9/17/24		
Well ID	GC-GWC-8										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	57.77			Total Well Depth (ft, btoc)	73.9			
Purge Pump Type or Bailer:			Instrument Type:								
Well Volume (gal)	$16.13 \times 0.16 = 2.6 \times 1.5 = 4$			Well Volume = (total depth - depth to water x well capacity)							
Purge Volume (gal)	4			Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469							
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
9:15	0.5	0.5	0.5	59.80	6.93	17.9	1056	0.37	5.30	-120.9	
9:20	1	1.0		59.90	6.87	18.3	1072	0.35	5.93	-120.2	
9:25	1.5			60.27	6.86	18.4	1091	0.17	3.97	-120.1	
9:30	2.0			60.95	6.88	18.5	1054	0.16	7.78	-122.4	
9:35	2.5			61.13	6.87	18.4	1077	0.20	5.51	-122.3	
9:40	3.0			61.29	6.86	18.6	1072	0.22	2.75	-122.3	
9:45	3.5			61.59	6.88	18.7	1050	0.25	2.23	-122.7	
9:50	4.0			61.71	6.86	18.9	1064	0.26	2.88	-123.1	

### STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$   
 Temperature:  $\pm 1.0$  degrees C  
 pH:  $\pm 0.1$  units

ORP:  $\pm 20$  mV  
 DO:  $\pm 0.2$  mg/L or  $\pm 10\%$   
 Specific Conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sample Time :

10:00

Sampled by (Print Name):

Evan Zeigler

Sample Date :

9/17/24

Samplers Signature:



## Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA		Date	9/16/24				
Well ID	GC-GWC-9										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	31.41		Total Well Depth (ft, btoc)	37.5				
Purge Pump Type or Bailer:			Instrument Type:								
Well Volume (gal)	$6.09 \times 0.16 = 0.97 \times 1.5 = 1.5$		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	1.5		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time 9/16 2pm	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
10:45	0.25	0.25	0.25	33.04	6.29	19.7	1517	0.75	24.7	-137.4	
10:50	0.25	0.50	0.25	33.12	6.30	19.8	1522	0.63	22.4	-139.0	
10:55	0.25	0.75	0.25	33.20	6.32	20.1	1515	0.75	19.63	-140.7	
11:00	0.25	1.00	0.25	33.25	6.31	20.1	1509	0.66	10.99	-139.2	
11:05	0.25	1.25	0.25	33.30	6.31	20.3	1504	0.63	6.16	-137.5	
11:10	0.25	2.50	0.25	33.31	6.31	20.3	1505	0.61	6.29	-136.6	
STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS											
Turbidity:	< 10 NTU or $\pm 10\%$										
Temperature:	$\pm 1.0$ degrees C										
pH:	$\pm 0.1$ units										
$\star$ ORP: $\pm 20$ mV $\star$ DO: $\pm 0.2$ mg/L or $\pm 10\%$											
Specific Conductance: $\pm 5\%$											
Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)											

### STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

$\star$  Temperature:  $\pm 1.0$  degrees C

pH:  $\pm 0.1$  units

$\star$  ORP:  $\pm 20$  mV

$\star$  DO:  $\pm 0.2$  mg/L or  $\pm 10\%$

Specific Conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sample Time :

11:15

Sampled by (Print Name):

Evan Zeigler

Sample Date :

9/16/24

Samplers Signature:

Evan Zeigler  
Jann Zeigler



## Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA				Date	9/16/24		
Well ID	GC-GWC-10										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	39.36			Total Well Depth (ft, btoc)	42.14			
Purge Pump Type or Bailer:			Instrument Type:								
Well Volume (gal)	$2.78 \times 0.16 = 0.45 \times 1.5 = 1$		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	1.25		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
12:25	0.25	0.25	0.25	37.22	6.61	18.8	789	1.75	21.6	-117.2	
12:30	0.25	0.50	0.25	37.13	6.56	18.6	787	1.46	12.76	-116.7	
12:35	0.25	0.75	0.25	36.90	6.56	18.7	790	1.64	8.54	-117.4	
12:40	0.25	1.00	0.25	37.21	6.56	18.8	797	1.72	7.78	-117.1	
12:45	0.25	1.25	0.25	37.23	6.55	18.8	799	1.67	5.42	-116.9	

### STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$   
 Temperature:  $\pm 1.0$  degrees C  
 pH:  $\pm 0.1$  units

ORP:  $\pm 20$  mV  
 DO:  $\pm 0.2$  mg/L or  $\pm 10\%$

Specific Conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sample Time :

12:50

Sampled by (Print Name):

Evan Zeigler  
Jann Zeigler

Sample Date :

9/16/24

Samplers Signature:



## Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA					Date	9-11-2024	
Well ID	GC-GWC-11			16.03							
Well Diameter (inches)	2		Depth to Water (ft, btoc)	7					Total Well Depth (ft, btoc)	22.5	
Purge Pump Type or Bailer:	Pump		Instrument Type:	VSE Monsoon			24754				
Well Volume (gal)	$6.47 \times 0.16 = 1.0352 \times 1.5$		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	$1.5528 = 1.75 - 2 \text{ gals}$		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
10:55	0.58	Int	0.116	16.09	5.92	22.12	0.828	1.83	53.3	-49.3	Dup-2  Sediment on bottom of Well
11:00	/	0.58		16.64	5.88	19.20	0.829	1.44	9.27	-42.1	
11:05	/	1.16		16.66	5.87	18.87	0.828	1.11	4.73	-41.9	
11:10	v	1.74		16.54	5.89	18.51	821	0.80	3.37	-51.1	

STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Turbidity: < 10 NTU or ±10%

ORP: ± 20 mV

Temperature: ± 1.0 degrees C

DO: ± 0.2 mg/L or ± 10%

pH: ± 0.1 units

Specific Conductance: ± 5%

Sample Time :

11:20

Sampled by (Print Name):

Ashley Scott

Sample Date :

9-11-2024

Samplers Signature:

Ashley Scott



## Groundwater Sampling Field Form

Oasis Consulting Services  
45 Woodstock Street  
Roswell, Georgia 30075  
(678) 739-2400

Site Name	Gun Club Road Landfill		Location	Fulton County, GA					Date	9-11-2024	
Well ID	GC-GWC-12										
Well Diameter (inches)	2		Depth to Water (ft, btoc)	11.00			Total Well Depth (ft, btoc)		18		
Purge Pump Type or Bailer:	Pump		Instrument Type:	Monsoon			24754				
Well Volume (gal)	$7 \times 0.16 = 1.12 \times 1.5 = 1.68$		Well Volume = (total depth - depth to water x well capacity)								
Purge Volume (gal)	1.75 gals - 3gals		Well capacity (gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2"= 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.469								
Time	Volume Purged (Gal)	Cumul. Volume Purged (Gal)	Purge Rate (gpm)	Depth to Water (ft, btoc)	pH	Temp (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)	ORP (mV)	Notes / Remarks
12:20	0.575	Int.	0.075	12.10	5.84	21.21	202	1.63	480	68.1	VOCs Sampled: Turbidity would not go down. Metals not sampled
12:25	0.375			12.63	5.81	20.54	192	1.20	320	86.9	
12:30	0.75			12.46	5.81	21.46	193	0.98	276	81.5	
12:35	1.125			12.45	5.80	21.51	193	1.06	166	79.2	
12:40	1.5			12.26	5.80	21.92	195	1.06	132	81.0	
12:45	1.875			12.31	5.79	21.81	194	1.25	72.2	87.6	
12:50	2.25			12.57	5.77	21.11	187	1.32	52.4	104.7	
12:55	2.625			12.61	5.77	21.28	186	1.15	46.8	110.2	
13:00	3			12.80	5.76	21.12	184	1.17	38.6	115.2	
13:05											

### STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity: < 10 NTU or  $\pm 10\%$

ORP:  $\pm 20$  mV

Temperature:  $\pm 1.0$  degrees C

DO:  $\pm 0.2$  mg/L or  $\pm 10\%$

pH:  $\pm 0.1$  units

Specific Conductance:  $\pm 5\%$

Note condition of well (bolts present, pad condition, vault lid & gasket, ID marker, casing, obstructions, etc.)

Sample Time :

13:10

Sampled by (Print Name):

Ashley Scott

Sample Date :

9-11-2024

Samplers Signature:

Carrie



## COA- Gun Club Road Landfill Surface Water Sampling

Surface Water ID	Analysis	Date	Time	pH	Temp. (°C)	Cond. (µs/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
GC-SWA-1	Metals + Hg, Chloride, COD, Cyanide, TOC	9/4/24	1140	7.53	22.0	288.7	6.97	2.09	11.6
GC-SWC-1	Metals + Hg, Chloride, COD, Cyanide, TOC	9/4/24	1100	7.86	21.9	291.6	9.41	1.18	-5.9
GC-SWC-2	Metals + Hg, Chloride, COD, Cyanide, TOC	9/4/24	0950	No	Flow				
GC-SWC-3	Metals + Hg, Chloride, COD, Cyanide, TOC	9/4/24	1005	7.75	20.8	286.5	7.61	2.51	-1.0
Dup/site	Dup. 3	9/4/24	1005						

Sampled by (print name) CKohler

Sampled by (signature) CEG

## **APPENDIX B**

## **LABORATORY DATA REPORTS**

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ashley Butterfield  
Oasis Consulting Services  
885 Woodstock Rd  
Suite 430  
PMB 382  
Roswell, Georgia 30075

Generated 9/24/2024 9:32:04 AM

## JOB DESCRIPTION

Gun Club Road Landfill - Second Event

## JOB NUMBER

705-7156-1

# Eurofins Atlanta

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

### Authorization



Generated  
9/24/2024 9:32:04 AM

Authorized for release by  
Shawn Boyd, Project Manager  
[shawn.boyd@et.eurofinsus.com](mailto:shawn.boyd@et.eurofinsus.com)  
(770)457-8177

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# Definitions/Glossary

Client: Oasis Consulting Services

Project/Site: Gun Club Road Landfill - Second Event

Job ID: 705-7156-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

### General Chemistry

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

## Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## **Chain of Custody Record**

Client Information		Sampler: <i>Cm / AS / EZ / BN</i>		Lab PM: Boyd, Shawn				Carrier Tracking No(s):		COC No: 705-3713-1675.1						
Client Contact: Butch Nolin		Phone:		E-Mail: shawn.boyd@et.eurofinsus.com				State of Origin:		Page: Page 1 of 3						
Company: Oasis Consulting Services		PWSID:		Analysis Requested								Job #:				
Address: 885 Woodstock Rd Suite 430 PMB 382		Due Date Requested:										Preservation Codes: D - HNO3 A - HCL S - H2SO4 B - NaOH N - None				
City: Roswell		TAT Requested (days): <i>Std</i>														
State, Zip: GA, 30075		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										705-7156 COC				
Phone:		PO #:										<i>7250</i>				
Email: bnolin@oasis-cs.com		WO #:										Other:				
Project Name: Gun Club Road Landfill - Second Event		Project #: 70501775										Special Instructions/Note:				
Site:		SSOW#:														
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MS (Yes or No)	6020B App I Metals, 7470A	8011 - EDB & DBCP	8260D - App IVOCs	4104_NP - COD	9014 - Cyanide, Total	9068A_ORGFM_29D - Chloride	9050A - TOC	6020B - SW metals + Hg	Total Number of containers
GC-GWA-1 <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	D	A	A	S	B	N	S	D	<input checked="" type="checkbox"/>
GC-GWA-2 <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
GC-GWA-3R <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
GC-GWC-1 <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
GC-GWC-2 <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
GC-GWC-3R <i>9/11/24</i> <i>1215</i>		<i>9/11/24</i>	<i>1215</i>	<i>G</i>	<i>GW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
GC-GWC-4 <i>9/11/24</i> <i>1345</i>		<i>9/11/24</i>	<i>1345</i>	<i>G</i>	<i>GW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
GC-GWC-5 <i>9/11/24</i> <i>1145</i>		<i>9/11/24</i>	<i>1145</i>	<i>G</i>	<i>GW</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
GC-GWC-6 <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
GC-GWC-7 <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
GC-GWC-8 <i>cm 9/11</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:										
Empty Kit Relinquished by:			Date:	Time:			Method of Shipment:									
Relinquished by: <i>Ashley Scott</i>			Date/Time: <i>9-11-24 3:29</i>	Company: <i>Oasis</i>			Received by: <i>Anna Neal</i>			Date/Time: <i>9-11-24 1529</i>	Company					
Relinquished by:			Date/Time:	Company:			Received by:			Date/Time:	Company					
Relinquished by:			Date/Time:	Company:			Received by:			Date/Time:	Company					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <i>1.1 #2065</i>										

## Eurofins Atlanta

3080 Presidential Dr  
Atlanta, GA 30340  
Phone (770) 457-8177

## Chain of Custody Record

eurofins | Environment Testing

<b>Client Information</b>		Sampler: <b>CM/AS/EZ/BN</b>	Lab PM: Boyd, Shawn	Carrier Tracking No(s):	COC No: 705-3713-1675.2
Client Contact: Butch Nolin		Phone:	E-Mail: shawn.boyd@et.eurofinsus.com	State of Origin:	
Company: Oasis Consulting Services		PWSID:	Analysis Requested		
Address: 885 Woodstock Rd Suite 430 PMB 382		Due Date Requested:			
City: Roswell		TAT Requested (days): <i>5-8</i>			
State, Zip: GA, 30075		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Phone:		PO #:			
Email: bnolin@oasis-cs.com		WO #:			
Project Name: Gun Club Road Landfill - Second Event		Project #: 70501775			
Site:		SSOW#:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab) <small>BT=Tissue, AW=Air</small>	Matrix (W=water, S=solid, O=waste/oil, T=tissue, A=air)
					Field Filtered Sample (Yes or No)
					Perform MS/MSD (Yes or No)
					<input checked="" type="checkbox"/> 6020B App I Metals, 7470A
					<input checked="" type="checkbox"/> 8011 - EDDB & DBCP
					<input checked="" type="checkbox"/> 8260D - App I VOCs
					<input checked="" type="checkbox"/> 4104_NP - COD
					<input checked="" type="checkbox"/> 9014 - Cyanide, Total
					<input checked="" type="checkbox"/> 9056A_ORGM/28D - Chloride
					<input checked="" type="checkbox"/> 9060A - TOC
					<input checked="" type="checkbox"/> 6020B - SW metals + Hg
					Total Number of containers
					Special Instructions/Note:
GC-GWC-9					
GC-GWC-10					
Duplicate 1					
Field Blank					
Equipment Blank					
GC-GWC-7D					
GC-GWC-11		9/11/24	1120	G GW	<input checked="" type="checkbox"/>
GC-GWC-12		9/11/24	1310	G GV	<input checked="" type="checkbox"/>
Duplicate 2		9/11/24		G GW	<input checked="" type="checkbox"/>
GC-SWA-1		9/11/24	1140	G SW	<input checked="" type="checkbox"/>
GC-SWC-1		9/11/24	1100	G SW	<input checked="" type="checkbox"/>
<b>Possible Hazard Identification</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>Ashley Scott</i>		Date/Time: <i>9-11-24 3:28</i>	Company: <i>Oasis</i>	Received by: <i>Anna Neal</i>	Date/Time: <i>9-11-24 1528</i>
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>1.1° #2665</i>	

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## Eurofins Atlanta

3080 Presidential Dr  
Atlanta, GA 30340  
Phone (770) 457-8177

## Chain of Custody Record

eurofins

Environment Testing

<b>Client Information</b>		Sampler: CM/AS/ER/BN	Lab PM: Boyd, Shawn	Carrier Tracking No(s):	COC No: 705-3713-1675.3		
Client Contact: Butch Nolin		Phone:	E-Mail: shawn.boyd@et.eurofinsus.com	State of Origin:			
Company: Oasis Consulting Services		PWSID:	Analysis Requested				
Address: 885 Woodstock Rd Suite 430 PMB 382		Due Date Requested:				Preservation Codes: D - HNO3 A - HCL S - H2SO4 B - NaOH N - None	
City: Roswell		TAT Requested (days): <i>St 8</i>				Other:	
State, Zip: GA, 30075		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Phone:		PO #:					
Email: bnolin@oasis-cs.com		WO #:					
Project Name: Gun Club Road Landfill - Second Event		Project #: 70501775					
Site:		SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab) <small>B=Tissue, A=Air</small>	Matrix (W=water, S=solid, O=waste/oil, T=tissue, A=air)	Total Number of containers	Special Instructions/Note:
GC-SWC-2				G SW	D A A S B N S D		
GC-SWC-3		9/11/24	1005	G SW	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Duplicate 3		9/11/24	/	G SW	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Trip Blank		9/11/24	0700	G W	<input checked="" type="checkbox"/>		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		Client	
Relinquished by: <i>Ashley Scott</i>		Date/Time: 9-11-24 3:30	Company: <i>Oasis</i>	Received by: <i>Anna Neal</i>		Date/Time: 9-11-24 1528	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <i>1.1 #6605</i>		

# Case Narrative

Client: Oasis Consulting Services  
Project: Gun Club Road Landfill - Second Event

Job ID: 705-7156-1

**Job ID: 705-7156-1**

**Eurofins Atlanta**

## Job Narrative 705-7156-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 9/11/2024 3:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

### GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 705-12341 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260D: The continuing calibration verification (CCV) associated with batch 705-12341 recovered outside acceptance criteria, low biased, for 1,1-Dichloroethene, Acetone and Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

Method 9056A\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 705-12402 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### General Chemistry

Method 9014: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 705-12541 and analytical batch 705-12712 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Atlanta

# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-3R**

**Lab Sample ID: 705-7156-1**

**Matrix: Water**

Date Collected: 09/11/24 12:15

Date Received: 09/11/24 15:29

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 02:29		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/17/24 02:29		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 02:29		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/17/24 02:29		1
1,1-Dichloroethane	ND		5.0	ug/L		09/17/24 02:29		1
1,1-Dichloroethene	ND		5.0	ug/L		09/17/24 02:29		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/17/24 02:29		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/17/24 02:29		1
1,2-Dibromoethane	ND		5.0	ug/L		09/17/24 02:29		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/17/24 02:29		1
1,2-Dichloroethane	ND		5.0	ug/L		09/17/24 02:29		1
1,2-Dichloropropane	ND		5.0	ug/L		09/17/24 02:29		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/17/24 02:29		1
2-Butanone	ND		50	ug/L		09/17/24 02:29		1
2-Hexanone	ND		10	ug/L		09/17/24 02:29		1
4-Methyl-2-pentanone	ND		10	ug/L		09/17/24 02:29		1
Acetone	ND		50	ug/L		09/17/24 02:29		1
Acrylonitrile	ND		5.0	ug/L		09/17/24 02:29		1
Benzene	ND		5.0	ug/L		09/17/24 02:29		1
Bromochloromethane	ND		5.0	ug/L		09/17/24 02:29		1
Bromodichloromethane	ND		5.0	ug/L		09/17/24 02:29		1
Bromoform	ND		5.0	ug/L		09/17/24 02:29		1
Bromomethane	ND		5.0	ug/L		09/17/24 02:29		1
Carbon disulfide	ND		5.0	ug/L		09/17/24 02:29		1
Carbon tetrachloride	ND		5.0	ug/L		09/17/24 02:29		1
Chlorobenzene	ND		5.0	ug/L		09/17/24 02:29		1
Chloroethane	ND		4.6	ug/L		09/17/24 02:29		1
Chloroform	ND		5.0	ug/L		09/17/24 02:29		1
Chloromethane	ND		10	ug/L		09/17/24 02:29		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 02:29		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 02:29		1
Dibromochloromethane	ND		5.0	ug/L		09/17/24 02:29		1
Dibromomethane	ND		5.0	ug/L		09/17/24 02:29		1
Ethylbenzene	ND		5.0	ug/L		09/17/24 02:29		1
Iodomethane	ND		10	ug/L		09/17/24 02:29		1
m,p-Xylene	ND		10	ug/L		09/17/24 02:29		1
Methylene Chloride	ND		5.0	ug/L		09/17/24 02:29		1
o-Xylene	ND		10	ug/L		09/17/24 02:29		1
Styrene	ND		5.0	ug/L		09/17/24 02:29		1
Tetrachloroethene	ND		5.0	ug/L		09/17/24 02:29		1
Toluene	ND		5.0	ug/L		09/17/24 02:29		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 02:29		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 02:29		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/17/24 02:29		1
Trichloroethene	ND		5.0	ug/L		09/17/24 02:29		1
Trichlorofluoromethane	ND		5.0	ug/L		09/17/24 02:29		1
Vinyl acetate	ND		10	ug/L		09/17/24 02:29		1
Vinyl chloride	ND		2.0	ug/L		09/17/24 02:29		1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-3R**

**Lab Sample ID: 705-7156-1**

Date Collected: 09/11/24 12:15

Matrix: Water

Date Received: 09/11/24 15:29

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 126		09/17/24 02:29	1
Dibromofluoromethane (Surr)	104		77 - 121		09/17/24 02:29	1
Toluene-d8 (Surr)	92		79 - 119		09/17/24 02:29	1

**Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L	09/18/24 11:25	09/18/24 15:07	17.5	
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L	09/18/24 11:25	09/18/24 15:07	17.5	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	120		74 - 131		09/18/24 11:25	09/18/24 15:07	17.5	

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Arsenic	ND		0.010	mg/L	09/16/24 08:10	09/16/24 18:50	1	
<b>Barium</b>	<b>0.11</b>		0.020	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Beryllium	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Cadmium	ND		0.00070	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Chromium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Cobalt	ND		0.050	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Copper	ND		0.0020	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Lead	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 18:50	1	
<b>Nickel</b>	<b>0.011</b>		0.0050	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Selenium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Silver	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Thallium	ND		0.0020	mg/L	09/16/24 08:10	09/16/24 18:50	1	
Vanadium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:50	1	
<b>Zinc</b>	<b>0.010</b>		0.010	mg/L	09/16/24 08:10	09/16/24 18:50	1	

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/16/24 14:32	09/16/24 21:03	1	

**Client Sample ID: GC-GWC-4**

**Lab Sample ID: 705-7156-2**

Date Collected: 09/11/24 13:45

Matrix: Water

Date Received: 09/11/24 15:29

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 02:51	1	
1,1,1-Trichloroethane	ND		5.0	ug/L		09/17/24 02:51	1	
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 02:51	1	
1,1,2-Trichloroethane	ND		5.0	ug/L		09/17/24 02:51	1	
1,1-Dichloroethane	ND		5.0	ug/L		09/17/24 02:51	1	
1,1-Dichloroethene	ND		5.0	ug/L		09/17/24 02:51	1	
1,2,3-Trichloropropane	ND		5.0	ug/L		09/17/24 02:51	1	
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/17/24 02:51	1	
1,2-Dibromoethane	ND		5.0	ug/L		09/17/24 02:51	1	
1,2-Dichlorobenzene	ND		5.0	ug/L		09/17/24 02:51	1	
1,2-Dichloroethane	ND		5.0	ug/L		09/17/24 02:51	1	

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-4**

Date Collected: 09/11/24 13:45

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-2**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	ug/L		09/17/24 02:51		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/17/24 02:51		1
2-Butanone	ND		50	ug/L		09/17/24 02:51		1
2-Hexanone	ND		10	ug/L		09/17/24 02:51		1
4-Methyl-2-pentanone	ND		10	ug/L		09/17/24 02:51		1
Acetone	ND		50	ug/L		09/17/24 02:51		1
Acrylonitrile	ND		5.0	ug/L		09/17/24 02:51		1
Benzene	ND		5.0	ug/L		09/17/24 02:51		1
Bromochloromethane	ND		5.0	ug/L		09/17/24 02:51		1
Bromodichloromethane	ND		5.0	ug/L		09/17/24 02:51		1
Bromoform	ND		5.0	ug/L		09/17/24 02:51		1
Bromomethane	ND		5.0	ug/L		09/17/24 02:51		1
Carbon disulfide	ND		5.0	ug/L		09/17/24 02:51		1
Carbon tetrachloride	ND		5.0	ug/L		09/17/24 02:51		1
Chlorobenzene	ND		5.0	ug/L		09/17/24 02:51		1
Chloroethane	ND		4.6	ug/L		09/17/24 02:51		1
<b>Chloroform</b>	<b>12</b>		5.0	ug/L		09/17/24 02:51		1
Chloromethane	ND		10	ug/L		09/17/24 02:51		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 02:51		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 02:51		1
Dibromochloromethane	ND		5.0	ug/L		09/17/24 02:51		1
Dibromomethane	ND		5.0	ug/L		09/17/24 02:51		1
Ethylbenzene	ND		5.0	ug/L		09/17/24 02:51		1
Iodomethane	ND		10	ug/L		09/17/24 02:51		1
m,p-Xylene	ND		10	ug/L		09/17/24 02:51		1
Methylene Chloride	ND		5.0	ug/L		09/17/24 02:51		1
o-Xylene	ND		10	ug/L		09/17/24 02:51		1
Styrene	ND		5.0	ug/L		09/17/24 02:51		1
Tetrachloroethene	ND		5.0	ug/L		09/17/24 02:51		1
Toluene	ND		5.0	ug/L		09/17/24 02:51		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 02:51		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 02:51		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/17/24 02:51		1
Trichloroethene	ND		5.0	ug/L		09/17/24 02:51		1
Trichlorofluoromethane	ND		5.0	ug/L		09/17/24 02:51		1
Vinyl acetate	ND		10	ug/L		09/17/24 02:51		1
Vinyl chloride	ND		2.0	ug/L		09/17/24 02:51		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 126		09/17/24 02:51	1
Dibromofluoromethane (Surr)	103		77 - 121		09/17/24 02:51	1
Toluene-d8 (Surr)	97		79 - 119		09/17/24 02:51	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/18/24 11:25	09/18/24 15:39	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/18/24 11:25	09/18/24 15:39	17.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	110		74 - 131		09/18/24 11:25	09/18/24 15:39	17.5

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-4**

Date Collected: 09/11/24 13:45

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-2**

Matrix: Water

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:53		1
Arsenic	ND		0.010	mg/L	09/16/24 08:10	09/16/24 18:53		1
<b>Barium</b>	<b>0.069</b>		0.020	mg/L	09/16/24 08:10	09/16/24 18:53		1
Beryllium	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 18:53		1
Cadmium	ND		0.00070	mg/L	09/16/24 08:10	09/16/24 18:53		1
Chromium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:53		1
Cobalt	ND		0.050	mg/L	09/16/24 08:10	09/16/24 18:53		1
Copper	ND		0.0020	mg/L	09/16/24 08:10	09/16/24 18:53		1
Lead	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 18:53		1
Nickel	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:53		1
Selenium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:53		1
Silver	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 18:53		1
Thallium	ND		0.0020	mg/L	09/16/24 08:10	09/16/24 18:53		1
Vanadium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 18:53		1
Zinc	ND		0.010	mg/L	09/16/24 08:10	09/16/24 18:53		1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000020	mg/L	09/16/24 14:32	09/16/24 21:07		1

**Client Sample ID: GC-GWC-5**

**Lab Sample ID: 705-7156-3**

Date Collected: 09/11/24 11:45

Matrix: Water

Date Received: 09/11/24 15:29

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 03:14	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/17/24 03:14	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 03:14	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/17/24 03:14	1
1,1-Dichloroethane	ND		5.0	ug/L			09/17/24 03:14	1
1,1-Dichloroethene	ND		5.0	ug/L			09/17/24 03:14	1
1,2,3-Trichloropropane	ND		5.0	ug/L			09/17/24 03:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			09/17/24 03:14	1
1,2-Dibromoethane	ND		5.0	ug/L			09/17/24 03:14	1
1,2-Dichlorobenzene	ND		5.0	ug/L			09/17/24 03:14	1
1,2-Dichloroethane	ND		5.0	ug/L			09/17/24 03:14	1
1,2-Dichloropropane	ND		5.0	ug/L			09/17/24 03:14	1
1,4-Dichlorobenzene	ND		5.0	ug/L			09/17/24 03:14	1
2-Butanone	ND		50	ug/L			09/17/24 03:14	1
2-Hexanone	ND		10	ug/L			09/17/24 03:14	1
4-Methyl-2-pentanone	ND		10	ug/L			09/17/24 03:14	1
Acetone	ND		50	ug/L			09/17/24 03:14	1
Acrylonitrile	ND		5.0	ug/L			09/17/24 03:14	1
Benzene	ND		5.0	ug/L			09/17/24 03:14	1
Bromochloromethane	ND		5.0	ug/L			09/17/24 03:14	1
Bromodichloromethane	ND		5.0	ug/L			09/17/24 03:14	1
Bromoform	ND		5.0	ug/L			09/17/24 03:14	1
Bromomethane	ND		5.0	ug/L			09/17/24 03:14	1
Carbon disulfide	ND		5.0	ug/L			09/17/24 03:14	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-5**

**Lab Sample ID: 705-7156-3**

**Matrix: Water**

Date Collected: 09/11/24 11:45

Date Received: 09/11/24 15:29

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	ug/L		09/17/24 03:14		1
Chlorobenzene	ND		5.0	ug/L		09/17/24 03:14		1
Chloroethane	ND		4.6	ug/L		09/17/24 03:14		1
Chloroform	ND		5.0	ug/L		09/17/24 03:14		1
Chloromethane	ND		10	ug/L		09/17/24 03:14		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 03:14		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 03:14		1
Dibromochloromethane	ND		5.0	ug/L		09/17/24 03:14		1
Dibromomethane	ND		5.0	ug/L		09/17/24 03:14		1
Ethylbenzene	ND		5.0	ug/L		09/17/24 03:14		1
Iodomethane	ND		10	ug/L		09/17/24 03:14		1
m,p-Xylene	ND		10	ug/L		09/17/24 03:14		1
Methylene Chloride	ND		5.0	ug/L		09/17/24 03:14		1
o-Xylene	ND		10	ug/L		09/17/24 03:14		1
Styrene	ND		5.0	ug/L		09/17/24 03:14		1
Tetrachloroethene	ND		5.0	ug/L		09/17/24 03:14		1
Toluene	ND		5.0	ug/L		09/17/24 03:14		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 03:14		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 03:14		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/17/24 03:14		1
Trichloroethene	ND		5.0	ug/L		09/17/24 03:14		1
Trichlorofluoromethane	ND		5.0	ug/L		09/17/24 03:14		1
Vinyl acetate	ND		10	ug/L		09/17/24 03:14		1
Vinyl chloride	ND		2.0	ug/L		09/17/24 03:14		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 126		09/17/24 03:14	1
Dibromofluoromethane (Surr)	103		77 - 121		09/17/24 03:14	1
Toluene-d8 (Surr)	97		79 - 119		09/17/24 03:14	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/18/24 11:25	09/18/24 15:56	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/18/24 11:25	09/18/24 15:56	17.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	120		74 - 131		09/18/24 11:25	09/18/24 15:56	17.5

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 19:09	1
Arsenic	ND		0.010	mg/L		09/16/24 08:10	09/16/24 19:09	1
<b>Barium</b>	<b>0.049</b>		0.020	mg/L		09/16/24 08:10	09/16/24 19:09	1
Beryllium	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 19:09	1
Cadmium	ND		0.00070	mg/L		09/16/24 08:10	09/16/24 19:09	1
Chromium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 19:09	1
Cobalt	ND		0.050	mg/L		09/16/24 08:10	09/16/24 19:09	1
Copper	ND		0.0020	mg/L		09/16/24 08:10	09/16/24 19:09	1
Lead	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 19:09	1
Nickel	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 19:09	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-5**

Date Collected: 09/11/24 11:45

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-3**

Matrix: Water

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:09		1
Silver	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 19:09		1
Thallium	ND		0.0020	mg/L	09/16/24 08:10	09/16/24 19:09		1
Vanadium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:09		1
Zinc	ND		0.010	mg/L	09/16/24 08:10	09/16/24 19:09		1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/16/24 14:32	09/16/24 21:10		1

**Client Sample ID: GC-GWC-11**

Date Collected: 09/11/24 11:20

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-4**

Matrix: Water

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 03:36	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/17/24 03:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 03:36	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/17/24 03:36	1
1,1-Dichloroethane	ND		5.0	ug/L			09/17/24 03:36	1
1,1-Dichloroethene	ND		5.0	ug/L			09/17/24 03:36	1
1,2,3-Trichloropropane	ND		5.0	ug/L			09/17/24 03:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			09/17/24 03:36	1
1,2-Dibromoethane	ND		5.0	ug/L			09/17/24 03:36	1
1,2-Dichlorobenzene	ND		5.0	ug/L			09/17/24 03:36	1
1,2-Dichloroethane	ND		5.0	ug/L			09/17/24 03:36	1
1,2-Dichloropropane	ND		5.0	ug/L			09/17/24 03:36	1
<b>1,4-Dichlorobenzene</b>	<b>12</b>		5.0	ug/L			09/17/24 03:36	1
2-Butanone	ND		50	ug/L			09/17/24 03:36	1
2-Hexanone	ND		10	ug/L			09/17/24 03:36	1
4-Methyl-2-pentanone	ND		10	ug/L			09/17/24 03:36	1
Acetone	ND		50	ug/L			09/17/24 03:36	1
Acrylonitrile	ND		5.0	ug/L			09/17/24 03:36	1
Benzene	ND		5.0	ug/L			09/17/24 03:36	1
Bromochloromethane	ND		5.0	ug/L			09/17/24 03:36	1
Bromodichloromethane	ND		5.0	ug/L			09/17/24 03:36	1
Bromoform	ND		5.0	ug/L			09/17/24 03:36	1
Bromomethane	ND		5.0	ug/L			09/17/24 03:36	1
Carbon disulfide	ND		5.0	ug/L			09/17/24 03:36	1
Carbon tetrachloride	ND		5.0	ug/L			09/17/24 03:36	1
Chlorobenzene	ND		5.0	ug/L			09/17/24 03:36	1
Chloroethane	ND		4.6	ug/L			09/17/24 03:36	1
Chloroform	ND		5.0	ug/L			09/17/24 03:36	1
Chloromethane	ND		10	ug/L			09/17/24 03:36	1
cis-1,2-Dichloroethene	ND		5.0	ug/L			09/17/24 03:36	1
cis-1,3-Dichloropropene	ND		5.0	ug/L			09/17/24 03:36	1
Dibromochloromethane	ND		5.0	ug/L			09/17/24 03:36	1
Dibromomethane	ND		5.0	ug/L			09/17/24 03:36	1
Ethylbenzene	ND		5.0	ug/L			09/17/24 03:36	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-11**

Date Collected: 09/11/24 11:20

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-4**

Matrix: Water

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		10	ug/L			09/17/24 03:36	1
m,p-Xylene	ND		10	ug/L			09/17/24 03:36	1
Methylene Chloride	ND		5.0	ug/L			09/17/24 03:36	1
o-Xylene	ND		10	ug/L			09/17/24 03:36	1
Styrene	ND		5.0	ug/L			09/17/24 03:36	1
Tetrachloroethene	ND		5.0	ug/L			09/17/24 03:36	1
Toluene	ND		5.0	ug/L			09/17/24 03:36	1
trans-1,2-Dichloroethene	ND		5.0	ug/L			09/17/24 03:36	1
trans-1,3-Dichloropropene	ND		5.0	ug/L			09/17/24 03:36	1
trans-1,4-Dichloro-2-butene	ND		10	ug/L			09/17/24 03:36	1
Trichloroethene	ND		5.0	ug/L			09/17/24 03:36	1
Trichlorofluoromethane	ND		5.0	ug/L			09/17/24 03:36	1
Vinyl acetate	ND		10	ug/L			09/17/24 03:36	1
Vinyl chloride	ND		2.0	ug/L			09/17/24 03:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	92		70 - 126				09/17/24 03:36	1
Dibromofluoromethane (Surr)	100		77 - 121				09/17/24 03:36	1
Toluene-d8 (Surr)	98		79 - 119				09/17/24 03:36	1

**Client Sample ID: GC-GWC-12**

Date Collected: 09/11/24 13:10

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-5**

Matrix: Water

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 04:21	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/17/24 04:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 04:21	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/17/24 04:21	1
1,1-Dichloroethane	ND		5.0	ug/L			09/17/24 04:21	1
1,1-Dichloroethene	ND		5.0	ug/L			09/17/24 04:21	1
1,2,3-Trichloropropane	ND		5.0	ug/L			09/17/24 04:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			09/17/24 04:21	1
1,2-Dibromoethane	ND		5.0	ug/L			09/17/24 04:21	1
1,2-Dichlorobenzene	ND		5.0	ug/L			09/17/24 04:21	1
1,2-Dichloroethane	ND		5.0	ug/L			09/17/24 04:21	1
1,2-Dichloropropane	ND		5.0	ug/L			09/17/24 04:21	1
1,4-Dichlorobenzene	ND		5.0	ug/L			09/17/24 04:21	1
2-Butanone	ND		50	ug/L			09/17/24 04:21	1
2-Hexanone	ND		10	ug/L			09/17/24 04:21	1
4-Methyl-2-pentanone	ND		10	ug/L			09/17/24 04:21	1
Acetone	ND		50	ug/L			09/17/24 04:21	1
Acrylonitrile	ND		5.0	ug/L			09/17/24 04:21	1
Benzene	ND		5.0	ug/L			09/17/24 04:21	1
Bromochloromethane	ND		5.0	ug/L			09/17/24 04:21	1
Bromodichloromethane	ND		5.0	ug/L			09/17/24 04:21	1
Bromoform	ND		5.0	ug/L			09/17/24 04:21	1
Bromomethane	ND		5.0	ug/L			09/17/24 04:21	1
Carbon disulfide	ND		5.0	ug/L			09/17/24 04:21	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-GWC-12**

Date Collected: 09/11/24 13:10

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-5**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	ug/L		09/17/24 04:21		1
Chlorobenzene	ND		5.0	ug/L		09/17/24 04:21		1
Chloroethane	ND		4.6	ug/L		09/17/24 04:21		1
Chloroform	ND		5.0	ug/L		09/17/24 04:21		1
Chloromethane	ND		10	ug/L		09/17/24 04:21		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 04:21		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 04:21		1
Dibromochloromethane	ND		5.0	ug/L		09/17/24 04:21		1
Dibromomethane	ND		5.0	ug/L		09/17/24 04:21		1
Ethylbenzene	ND		5.0	ug/L		09/17/24 04:21		1
Iodomethane	ND		10	ug/L		09/17/24 04:21		1
m,p-Xylene	ND		10	ug/L		09/17/24 04:21		1
Methylene Chloride	ND		5.0	ug/L		09/17/24 04:21		1
o-Xylene	ND		10	ug/L		09/17/24 04:21		1
Styrene	ND		5.0	ug/L		09/17/24 04:21		1
Tetrachloroethene	ND		5.0	ug/L		09/17/24 04:21		1
Toluene	ND		5.0	ug/L		09/17/24 04:21		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 04:21		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 04:21		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/17/24 04:21		1
Trichloroethene	ND		5.0	ug/L		09/17/24 04:21		1
Trichlorofluoromethane	ND		5.0	ug/L		09/17/24 04:21		1
Vinyl acetate	ND		10	ug/L		09/17/24 04:21		1
Vinyl chloride	ND		2.0	ug/L		09/17/24 04:21		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	90		70 - 126			09/17/24 04:21		1
Dibromofluoromethane (Surr)	102		77 - 121			09/17/24 04:21		1
Toluene-d8 (Surr)	97		79 - 119			09/17/24 04:21		1

**Client Sample ID: Duplicate 2**

Date Collected: 09/11/24 00:00

Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-6**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 03:59		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/17/24 03:59		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 03:59		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/17/24 03:59		1
1,1-Dichloroethane	ND		5.0	ug/L		09/17/24 03:59		1
1,1-Dichloroethene	ND		5.0	ug/L		09/17/24 03:59		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/17/24 03:59		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/17/24 03:59		1
1,2-Dibromoethane	ND		5.0	ug/L		09/17/24 03:59		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/17/24 03:59		1
1,2-Dichloroethane	ND		5.0	ug/L		09/17/24 03:59		1
1,2-Dichloropropane	ND		5.0	ug/L		09/17/24 03:59		1
<b>1,4-Dichlorobenzene</b>	<b>13</b>		5.0	ug/L		09/17/24 03:59		1
2-Butanone	ND		50	ug/L		09/17/24 03:59		1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Client Sample ID: Duplicate 2

Date Collected: 09/11/24 00:00

Date Received: 09/11/24 15:29

Lab Sample ID: 705-7156-6

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	ug/L		09/17/24 03:59		1
4-Methyl-2-pentanone	ND		10	ug/L		09/17/24 03:59		1
Acetone	ND		50	ug/L		09/17/24 03:59		1
Acrylonitrile	ND		5.0	ug/L		09/17/24 03:59		1
Benzene	ND		5.0	ug/L		09/17/24 03:59		1
Bromochloromethane	ND		5.0	ug/L		09/17/24 03:59		1
Bromodichloromethane	ND		5.0	ug/L		09/17/24 03:59		1
Bromoform	ND		5.0	ug/L		09/17/24 03:59		1
Bromomethane	ND		5.0	ug/L		09/17/24 03:59		1
Carbon disulfide	ND		5.0	ug/L		09/17/24 03:59		1
Carbon tetrachloride	ND		5.0	ug/L		09/17/24 03:59		1
Chlorobenzene	ND		5.0	ug/L		09/17/24 03:59		1
Chloroethane	ND		4.6	ug/L		09/17/24 03:59		1
Chloroform	ND		5.0	ug/L		09/17/24 03:59		1
Chloromethane	ND		10	ug/L		09/17/24 03:59		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 03:59		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 03:59		1
Dibromochloromethane	ND		5.0	ug/L		09/17/24 03:59		1
Dibromomethane	ND		5.0	ug/L		09/17/24 03:59		1
Ethylbenzene	ND		5.0	ug/L		09/17/24 03:59		1
Iodomethane	ND		10	ug/L		09/17/24 03:59		1
m,p-Xylene	ND		10	ug/L		09/17/24 03:59		1
Methylene Chloride	ND		5.0	ug/L		09/17/24 03:59		1
o-Xylene	ND		10	ug/L		09/17/24 03:59		1
Styrene	ND		5.0	ug/L		09/17/24 03:59		1
Tetrachloroethene	ND		5.0	ug/L		09/17/24 03:59		1
Toluene	ND		5.0	ug/L		09/17/24 03:59		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 03:59		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 03:59		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/17/24 03:59		1
Trichloroethene	ND		5.0	ug/L		09/17/24 03:59		1
Trichlorofluoromethane	ND		5.0	ug/L		09/17/24 03:59		1
Vinyl acetate	ND		10	ug/L		09/17/24 03:59		1
Vinyl chloride	ND		2.0	ug/L		09/17/24 03:59		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene	93		70 - 126			09/17/24 03:59		1
Dibromofluoromethane (Surr)	101		77 - 121			09/17/24 03:59		1
Toluene-d8 (Surr)	98		79 - 119			09/17/24 03:59		1

## Client Sample ID: GC-SWA-1

Date Collected: 09/11/24 11:40

Date Received: 09/11/24 15:29

Lab Sample ID: 705-7156-7

Matrix: Water

### Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		1.0	mg/L			09/18/24 00:38	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-SWA-1**

**Lab Sample ID: 705-7156-7**

**Matrix: Water**

Date Collected: 09/11/24 11:40

Date Received: 09/11/24 15:29

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:12		1
<b>Barium</b>	<b>0.045</b>		0.010	mg/L	09/16/24 08:10	09/16/24 19:12		1
Cadmium	ND		0.00070	mg/L	09/16/24 08:10	09/16/24 19:12		1
Chromium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:12		1
<b>Lead</b>	<b>0.0016</b>		0.0010	mg/L	09/16/24 08:10	09/16/24 19:12		1
Nickel	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:12		1
Selenium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:12		1
Silver	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 19:12		1
Zinc	ND		0.010	mg/L	09/16/24 08:10	09/16/24 19:12		1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/18/24 14:19	09/18/24 19:51		1

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		10	mg/L			09/17/24 16:16	1
Cyanide, Total (SW846 9014)	ND	F2	0.010	mg/L	09/19/24 12:30	09/19/24 15:15		1
<b>Total Organic Carbon - Quad (SW846 9060A)</b>	<b>4.5</b>		1.0	mg/L			09/17/24 17:32	1

**Client Sample ID: GC-SWC-1**

**Lab Sample ID: 705-7156-8**

**Matrix: Water**

Date Collected: 09/11/24 11:00

Date Received: 09/11/24 15:29

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>19</b>		1.0	mg/L			09/18/24 00:50	1

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:14		1
<b>Barium</b>	<b>0.045</b>		0.010	mg/L	09/16/24 08:10	09/16/24 19:14		1
Cadmium	ND		0.00070	mg/L	09/16/24 08:10	09/16/24 19:14		1
Chromium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:14		1
Lead	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 19:14		1
Nickel	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:14		1
Selenium	ND		0.0050	mg/L	09/16/24 08:10	09/16/24 19:14		1
Silver	ND		0.0010	mg/L	09/16/24 08:10	09/16/24 19:14		1
Zinc	ND		0.010	mg/L	09/16/24 08:10	09/16/24 19:14		1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/18/24 14:19	09/18/24 20:02		1

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		10	mg/L			09/17/24 16:20	1
Cyanide, Total (SW846 9014)	ND		0.010	mg/L	09/19/24 12:30	09/19/24 15:01		1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-SWC-1**

**Lab Sample ID: 705-7156-8**

Matrix: Water

Date Collected: 09/11/24 11:00

Date Received: 09/11/24 15:29

## General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SW846 9060A)	4.5		1.0	mg/L			09/17/24 19:00	1

**Client Sample ID: GC-SWC-3**

**Lab Sample ID: 705-7156-9**

Matrix: Water

Date Collected: 09/11/24 10:05

Date Received: 09/11/24 15:29

## Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	mg/L			09/18/24 01:02	1

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 19:16	1
Barium	0.049		0.010	mg/L		09/16/24 08:10	09/16/24 19:16	1
Cadmium	ND		0.00070	mg/L		09/16/24 08:10	09/16/24 19:16	1
Chromium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 19:16	1
Lead	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 19:16	1
Nickel	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 19:16	1
Selenium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 19:16	1
Silver	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 19:16	1
Zinc	ND		0.010	mg/L		09/16/24 08:10	09/16/24 19:16	1

## Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/18/24 14:19	09/18/24 20:18	1

## General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		10	mg/L			09/17/24 16:20	1
Cyanide, Total (SW846 9014)	ND		0.010	mg/L		09/19/24 12:30	09/19/24 15:04	1
Total Organic Carbon - Quad (SW846 9060A)	4.6		1.0	mg/L			09/17/24 19:29	1

**Client Sample ID: Duplicate 3**

**Lab Sample ID: 705-7156-10**

Matrix: Water

Date Collected: 09/11/24 00:00

Date Received: 09/11/24 15:29

## Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	mg/L			09/18/24 01:15	1

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:14	1
Barium	0.046		0.010	mg/L		09/16/24 08:10	09/16/24 17:14	1
Cadmium	ND		0.00070	mg/L		09/16/24 08:10	09/16/24 17:14	1
Chromium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:14	1
Lead	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 17:14	1
Nickel	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:14	1
Selenium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:14	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Client Sample ID: Duplicate 3

Lab Sample ID: 705-7156-10

Matrix: Water

Date Collected: 09/11/24 00:00

Date Received: 09/11/24 15:29

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 17:14	1
Zinc	ND		0.010	mg/L		09/16/24 08:10	09/16/24 17:14	1

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/18/24 14:19	09/18/24 20:22	1

### General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		10	mg/L			09/17/24 16:20	1
Cyanide, Total (SW846 9014)	ND		0.010	mg/L		09/19/24 12:30	09/19/24 15:06	1
Total Organic Carbon - Quad (SW846 9060A)	4.6		1.0	mg/L			09/17/24 19:58	1

## Client Sample ID: Trip Blank

Lab Sample ID: 705-7156-11

Matrix: Water

Date Collected: 09/11/24 07:00

Date Received: 09/11/24 15:29

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 01:22	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/17/24 01:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/17/24 01:22	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/17/24 01:22	1
1,1-Dichloroethane	ND		5.0	ug/L			09/17/24 01:22	1
1,1-Dichloroethene	ND		5.0	ug/L			09/17/24 01:22	1
1,2,3-Trichloropropane	ND		5.0	ug/L			09/17/24 01:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			09/17/24 01:22	1
1,2-Dibromoethane	ND		5.0	ug/L			09/17/24 01:22	1
1,2-Dichlorobenzene	ND		5.0	ug/L			09/17/24 01:22	1
1,2-Dichloroethane	ND		5.0	ug/L			09/17/24 01:22	1
1,2-Dichloropropane	ND		5.0	ug/L			09/17/24 01:22	1
1,4-Dichlorobenzene	ND		5.0	ug/L			09/17/24 01:22	1
2-Butanone	ND		50	ug/L			09/17/24 01:22	1
2-Hexanone	ND		10	ug/L			09/17/24 01:22	1
4-Methyl-2-pentanone	ND		10	ug/L			09/17/24 01:22	1
Acetone	ND		50	ug/L			09/17/24 01:22	1
Acrylonitrile	ND		5.0	ug/L			09/17/24 01:22	1
Benzene	ND		5.0	ug/L			09/17/24 01:22	1
Bromochloromethane	ND		5.0	ug/L			09/17/24 01:22	1
Bromodichloromethane	ND		5.0	ug/L			09/17/24 01:22	1
Bromoform	ND		5.0	ug/L			09/17/24 01:22	1
Bromomethane	ND		5.0	ug/L			09/17/24 01:22	1
Carbon disulfide	ND		5.0	ug/L			09/17/24 01:22	1
Carbon tetrachloride	ND		5.0	ug/L			09/17/24 01:22	1
Chlorobenzene	ND		5.0	ug/L			09/17/24 01:22	1
Chloroethane	ND		4.6	ug/L			09/17/24 01:22	1
Chloroform	ND		5.0	ug/L			09/17/24 01:22	1
Chloromethane	ND		10	ug/L			09/17/24 01:22	1
cis-1,2-Dichloroethene	ND		5.0	ug/L			09/17/24 01:22	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: Trip Blank**

**Lab Sample ID: 705-7156-11**

**Matrix: Water**

Date Collected: 09/11/24 07:00

Date Received: 09/11/24 15:29

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 01:22		1
Dibromochloromethane	ND		5.0	ug/L		09/17/24 01:22		1
Dibromomethane	ND		5.0	ug/L		09/17/24 01:22		1
Ethylbenzene	ND		5.0	ug/L		09/17/24 01:22		1
Iodomethane	ND		10	ug/L		09/17/24 01:22		1
m,p-Xylene	ND		10	ug/L		09/17/24 01:22		1
Methylene Chloride	ND		5.0	ug/L		09/17/24 01:22		1
o-Xylene	ND		10	ug/L		09/17/24 01:22		1
Styrene	ND		5.0	ug/L		09/17/24 01:22		1
Tetrachloroethene	ND		5.0	ug/L		09/17/24 01:22		1
Toluene	ND		5.0	ug/L		09/17/24 01:22		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 01:22		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 01:22		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/17/24 01:22		1
Trichloroethene	ND		5.0	ug/L		09/17/24 01:22		1
Trichlorofluoromethane	ND		5.0	ug/L		09/17/24 01:22		1
Vinyl acetate	ND		10	ug/L		09/17/24 01:22		1
Vinyl chloride	ND		2.0	ug/L		09/17/24 01:22		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo fluorobenzene	92		70 - 126		09/17/24 01:22	1
Dibromofluoromethane (Surr)	102		77 - 121		09/17/24 01:22	1
Toluene-d8 (Surr)	94		79 - 119		09/17/24 01:22	1

# Detection Summary

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## **Client Sample ID: GC-GWC-3R**

## **Lab Sample ID: 705-7156-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.020	mg/L	1		6020B	Total Recoverable
Nickel	0.011		0.0050	mg/L	1		6020B	Total Recoverable
Zinc	0.010		0.010	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWC-4**

## **Lab Sample ID: 705-7156-2**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	12		5.0	ug/L	1		8260D	Total/NA
Barium	0.069		0.020	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWC-5**

## **Lab Sample ID: 705-7156-3**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.049		0.020	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWC-11**

## **Lab Sample ID: 705-7156-4**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	12		5.0	ug/L	1		8260D	Total/NA

## **Client Sample ID: GC-GWC-12**

## **Lab Sample ID: 705-7156-5**

No Detections.

## **Client Sample ID: Duplicate 2**

## **Lab Sample ID: 705-7156-6**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	13		5.0	ug/L	1		8260D	Total/NA

## **Client Sample ID: GC-SWA-1**

## **Lab Sample ID: 705-7156-7**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		1.0	mg/L	1		9056A	Total/NA
Barium	0.045		0.010	mg/L	1		6020B	Total Recoverable
Lead	0.0016		0.0010	mg/L	1		6020B	Total Recoverable
Total Organic Carbon - Quad	4.5		1.0	mg/L	1		9060A	Total/NA

## **Client Sample ID: GC-SWC-1**

## **Lab Sample ID: 705-7156-8**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		1.0	mg/L	1		9056A	Total/NA
Barium	0.045		0.010	mg/L	1		6020B	Total Recoverable
Total Organic Carbon - Quad	4.5		1.0	mg/L	1		9060A	Total/NA

## **Client Sample ID: GC-SWC-3**

## **Lab Sample ID: 705-7156-9**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18		1.0	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Client Sample ID: GC-SWC-3 (Continued)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type						
Barium	0.049		0.010	mg/L	1		6020B	Total Recoverable						
Total Organic Carbon - Quad	4.6		1.0	mg/L	1		9060A	Total/NA						

## Client Sample ID: Duplicate 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type						
Chloride	18		1.0	mg/L	1		9056A	Total/NA						
Barium	0.046		0.010	mg/L	1		6020B	Total Recoverable						
Total Organic Carbon - Quad	4.6		1.0	mg/L	1		9060A	Total/NA						

## Client Sample ID: Trip Blank

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type						
No Detections.														

This Detection Summary does not include radiochemical test results.

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## Login Sample Receipt Checklist

Client: Oasis Consulting Services

Job Number: 705-7156-1

**Login Number:** 7156

**List Source:** Eurofins Atlanta

**List Number:** 1

**Creator:** Howard, Aaron

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Surrogate Summary

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-126)	DBFM (77-121)	TOL (79-119)
705-7086-A-3 MS ^500	Matrix Spike	96	97	100
705-7086-A-3 MSD ^500	Matrix Spike Duplicate	99	99	98
705-7156-1	GC-GWC-3R	93	104	92
705-7156-2	GC-GWC-4	92	103	97
705-7156-3	GC-GWC-5	91	103	97
705-7156-4	GC-GWC-11	92	100	98
705-7156-5	GC-GWC-12	90	102	97
705-7156-6	Duplicate 2	93	101	98
705-7156-11	Trip Blank	92	102	94
LCS 705-12341/2	Lab Control Sample	100	99	98
MB 705-12341/4	Method Blank	94	103	93
MRL 705-12341/3	Lab Control Sample	99	100	96

### Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (74-131)		
705-7156-1	GC-GWC-3R	120		
705-7156-1 DU	GC-GWC-3R	124		
705-7156-2	GC-GWC-4	110		
705-7156-3	GC-GWC-5	120		
705-7156-3 MS	GC-GWC-5	121		
HLCS 705-12406/5-A	Lab Control Sample	131		
LCS 705-12406/3-A	Lab Control Sample	130		
LCSD 705-12406/4-A	Lab Control Sample Dup	128		
MB 705-12406/2-A	Method Blank	129		

### Surrogate Legend

BFB = 4-Bromofluorobenzene

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# Lab Chronicle

Client: Oasis Consulting Services  
Project/Site: Gun Club Road Landfill - Second Event

Job ID: 705-7156-1

## **Client Sample ID: GC-GWC-3R**

Date Collected: 09/11/24 12:15

Date Received: 09/11/24 15:29

## **Lab Sample ID: 705-7156-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12341	AG	EET ATL	09/17/24 02:29
Total/NA	Prep	8011			12406	AF	EET ATL	09/18/24 11:25
Total/NA	Analysis	8011		17.5	12723	AF	EET ATL	09/18/24 15:07
Total Recoverable	Prep	3005A			11937	BR	EET ATL	09/16/24 08:10
Total Recoverable	Analysis	6020B		1	12155	AD	EET ATL	09/16/24 18:50
Total/NA	Prep	7470A			12080	TA	EET ATL	09/16/24 14:32
Total/NA	Analysis	7470A		1	12294	GR	EET ATL	09/16/24 21:03

## **Client Sample ID: GC-GWC-4**

Date Collected: 09/11/24 13:45

Date Received: 09/11/24 15:29

## **Lab Sample ID: 705-7156-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12341	AG	EET ATL	09/17/24 02:51
Total/NA	Prep	8011			12406	AF	EET ATL	09/18/24 11:25
Total/NA	Analysis	8011		17.5	12723	AF	EET ATL	09/18/24 15:39
Total Recoverable	Prep	3005A			11937	BR	EET ATL	09/16/24 08:10
Total Recoverable	Analysis	6020B		1	12155	AD	EET ATL	09/16/24 18:53
Total/NA	Prep	7470A			12080	TA	EET ATL	09/16/24 14:32
Total/NA	Analysis	7470A		1	12294	GR	EET ATL	09/16/24 21:07

## **Client Sample ID: GC-GWC-5**

Date Collected: 09/11/24 11:45

Date Received: 09/11/24 15:29

## **Lab Sample ID: 705-7156-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12341	AG	EET ATL	09/17/24 03:14
Total/NA	Prep	8011			12406	AF	EET ATL	09/18/24 11:25
Total/NA	Analysis	8011		17.5	12723	AF	EET ATL	09/18/24 15:56
Total Recoverable	Prep	3005A			11937	BR	EET ATL	09/16/24 08:10
Total Recoverable	Analysis	6020B		1	12155	AD	EET ATL	09/16/24 19:09
Total/NA	Prep	7470A			12080	TA	EET ATL	09/16/24 14:32
Total/NA	Analysis	7470A		1	12294	GR	EET ATL	09/16/24 21:10

## **Client Sample ID: GC-GWC-11**

Date Collected: 09/11/24 11:20

Date Received: 09/11/24 15:29

## **Lab Sample ID: 705-7156-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12341	AG	EET ATL	09/17/24 03:36

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# Lab Chronicle

Client: Oasis Consulting Services  
Project/Site: Gun Club Road Landfill - Second Event

Job ID: 705-7156-1

## **Client Sample ID: GC-GWC-12**

Date Collected: 09/11/24 13:10  
Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12341	AG	EET ATL	09/17/24 04:21

## **Client Sample ID: Duplicate 2**

Date Collected: 09/11/24 00:00  
Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-6**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12341	AG	EET ATL	09/17/24 03:59

## **Client Sample ID: GC-SWA-1**

Date Collected: 09/11/24 11:40  
Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	12402	MS	EET ATL	09/18/24 00:38
Total Recoverable	Prep	3005A			11937	BR	EET ATL	09/16/24 08:10
Total Recoverable	Analysis	6020B		1	12155	AD	EET ATL	09/16/24 19:12
Total/NA	Prep	7470A			12513	TA	EET ATL	09/18/24 14:19
Total/NA	Analysis	7470A		1	12764	TA	EET ATL	09/18/24 19:51
Total/NA	Analysis	410.4		1	12308	GD	EET ATL	09/17/24 16:16
Total/NA	Prep	9010C			12541	JJ	EET ATL	09/19/24 12:30
Total/NA	Analysis	9014		1	12712	JO	EET ATL	09/19/24 15:15
Total/NA	Analysis	9060A		1	12383	AY	EET ATL	09/17/24 17:32

## **Client Sample ID: GC-SWC-1**

Date Collected: 09/11/24 11:00  
Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-8**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	12402	MS	EET ATL	09/18/24 00:50
Total Recoverable	Prep	3005A			11937	BR	EET ATL	09/16/24 08:10
Total Recoverable	Analysis	6020B		1	12155	AD	EET ATL	09/16/24 19:14
Total/NA	Prep	7470A			12513	TA	EET ATL	09/18/24 14:19
Total/NA	Analysis	7470A		1	12764	TA	EET ATL	09/18/24 20:02
Total/NA	Analysis	410.4		1	12308	GD	EET ATL	09/17/24 16:20
Total/NA	Prep	9010C			12541	JJ	EET ATL	09/19/24 12:30
Total/NA	Analysis	9014		1	12712	JO	EET ATL	09/19/24 15:01
Total/NA	Analysis	9060A		1	12383	AY	EET ATL	09/17/24 19:00

## **Client Sample ID: GC-SWC-3**

Date Collected: 09/11/24 10:05  
Date Received: 09/11/24 15:29

**Lab Sample ID: 705-7156-9**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	12402	MS	EET ATL	09/18/24 01:02

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# Lab Chronicle

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

**Client Sample ID: GC-SWC-3**

**Date Collected: 09/11/24 10:05**

**Date Received: 09/11/24 15:29**

**Lab Sample ID: 705-7156-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			11937	BR	EET ATL	09/16/24 08:10
Total Recoverable	Analysis	6020B		1	12155	AD	EET ATL	09/16/24 19:16
Total/NA	Prep	7470A			12513	TA	EET ATL	09/18/24 14:19
Total/NA	Analysis	7470A		1	12764	TA	EET ATL	09/18/24 20:18
Total/NA	Analysis	410.4		1	12308	GD	EET ATL	09/17/24 16:20
Total/NA	Prep	9010C			12541	JJ	EET ATL	09/19/24 12:30
Total/NA	Analysis	9014		1	12712	JO	EET ATL	09/19/24 15:04
Total/NA	Analysis	9060A		1	12383	AY	EET ATL	09/17/24 19:29

**Client Sample ID: Duplicate 3**

**Date Collected: 09/11/24 00:00**

**Date Received: 09/11/24 15:29**

**Lab Sample ID: 705-7156-10**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	12402	MS	EET ATL	09/18/24 01:15
Total Recoverable	Prep	3005A			11937	BR	EET ATL	09/16/24 08:10
Total Recoverable	Analysis	6020B		1	12155	AD	EET ATL	09/16/24 17:14
Total/NA	Prep	7470A			12513	TA	EET ATL	09/18/24 14:19
Total/NA	Analysis	7470A		1	12764	TA	EET ATL	09/18/24 20:22
Total/NA	Analysis	410.4		1	12308	GD	EET ATL	09/17/24 16:20
Total/NA	Prep	9010C			12541	JJ	EET ATL	09/19/24 12:30
Total/NA	Analysis	9014		1	12712	JO	EET ATL	09/19/24 15:06
Total/NA	Analysis	9060A		1	12383	AY	EET ATL	09/17/24 19:58

**Client Sample ID: Trip Blank**

**Date Collected: 09/11/24 07:00**

**Date Received: 09/11/24 15:29**

**Lab Sample ID: 705-7156-11**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12341	AG	EET ATL	09/17/24 01:22

## Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Eurofins Atlanta

# QC Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road Landfill - Second Event

Job ID: 705-7156-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 705-12341/4**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 01:00		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/17/24 01:00		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/17/24 01:00		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/17/24 01:00		1
1,1-Dichloroethane	ND		5.0	ug/L		09/17/24 01:00		1
1,1-Dichloroethene	ND		5.0	ug/L		09/17/24 01:00		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/17/24 01:00		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/17/24 01:00		1
1,2-Dibromoethane	ND		5.0	ug/L		09/17/24 01:00		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/17/24 01:00		1
1,2-Dichloroethane	ND		5.0	ug/L		09/17/24 01:00		1
1,2-Dichloropropane	ND		5.0	ug/L		09/17/24 01:00		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/17/24 01:00		1
2-Butanone	ND		50	ug/L		09/17/24 01:00		1
2-Hexanone	ND		10	ug/L		09/17/24 01:00		1
4-Methyl-2-pentanone	ND		10	ug/L		09/17/24 01:00		1
Acetone	ND		50	ug/L		09/17/24 01:00		1
Acrylonitrile	ND		5.0	ug/L		09/17/24 01:00		1
Benzene	ND		5.0	ug/L		09/17/24 01:00		1
Bromochloromethane	ND		5.0	ug/L		09/17/24 01:00		1
Bromodichloromethane	ND		5.0	ug/L		09/17/24 01:00		1
Bromoform	ND		5.0	ug/L		09/17/24 01:00		1
Bromomethane	ND		5.0	ug/L		09/17/24 01:00		1
Carbon disulfide	ND		5.0	ug/L		09/17/24 01:00		1
Carbon tetrachloride	ND		5.0	ug/L		09/17/24 01:00		1
Chlorobenzene	ND		5.0	ug/L		09/17/24 01:00		1
Chloroethane	ND		4.6	ug/L		09/17/24 01:00		1
Chloroform	ND		5.0	ug/L		09/17/24 01:00		1
Chloromethane	ND		10	ug/L		09/17/24 01:00		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 01:00		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 01:00		1
Dibromochloromethane	ND		5.0	ug/L		09/17/24 01:00		1
Dibromomethane	ND		5.0	ug/L		09/17/24 01:00		1
Ethylbenzene	ND		5.0	ug/L		09/17/24 01:00		1
Iodomethane	ND		10	ug/L		09/17/24 01:00		1
m,p-Xylene	ND		10	ug/L		09/17/24 01:00		1
Methylene Chloride	ND		5.0	ug/L		09/17/24 01:00		1
o-Xylene	ND		10	ug/L		09/17/24 01:00		1
Styrene	ND		5.0	ug/L		09/17/24 01:00		1
Tetrachloroethene	ND		5.0	ug/L		09/17/24 01:00		1
Toluene	ND		5.0	ug/L		09/17/24 01:00		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/17/24 01:00		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/17/24 01:00		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/17/24 01:00		1
Trichloroethene	ND		5.0	ug/L		09/17/24 01:00		1
Trichlorofluoromethane	ND		5.0	ug/L		09/17/24 01:00		1
Vinyl acetate	ND		10	ug/L		09/17/24 01:00		1
Vinyl chloride	ND		2.0	ug/L		09/17/24 01:00		1

Eurofins Atlanta

# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 705-12341/4**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene		94			70 - 126		09/17/24 01:00	1
Dibromofluoromethane (Surr)		103			77 - 121		09/17/24 01:00	1
Toluene-d8 (Surr)		93			79 - 119		09/17/24 01:00	1

**Lab Sample ID: LCS 705-12341/2**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LC S	LC S	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier				Limits	
1,1,1,2-Tetrachloroethane	20.0	19.1		ug/L		95	76 - 130	
1,1,1-Trichloroethane	20.0	17.6		ug/L		88	71 - 124	
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		97	73 - 127	
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	69 - 127	
1,1-Dichloroethane	20.0	18.1		ug/L		91	65 - 126	
1,1-Dichloroethene	20.0	14.0		ug/L		70	69 - 130	
1,2,3-Trichloropropane	20.0	17.8		ug/L		89	70 - 127	
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		92	64 - 125	
1,2-Dibromoethane	20.0	18.8		ug/L		94	68 - 133	
1,2-Dichlorobenzene	20.0	18.9		ug/L		94	69 - 127	
1,2-Dichloroethane	20.0	17.9		ug/L		90	72 - 127	
1,2-Dichloropropane	20.0	18.7		ug/L		94	71 - 121	
1,4-Dichlorobenzene	20.0	17.5		ug/L		88	68 - 126	
2-Butanone	40.0	40.4 J		ug/L		101	74 - 131	
2-Hexanone	40.0	40.9		ug/L		102	70 - 130	
4-Methyl-2-pentanone	40.0	39.7		ug/L		99	76 - 122	
Acetone	40.0	28.0 J		ug/L		70	62 - 136	
Acrylonitrile	20.0	21.6		ug/L		108	62 - 141	
Benzene	20.0	18.4		ug/L		92	76 - 122	
Bromochloromethane	20.0	18.5		ug/L		92	76 - 120	
Bromodichloromethane	20.0	18.5		ug/L		93	70 - 124	
Bromoform	20.0	18.9		ug/L		95	65 - 129	
Bromomethane	20.0	17.9		ug/L		89	60 - 138	
Carbon disulfide	40.0	29.8		ug/L		75	71 - 122	
Carbon tetrachloride	20.0	18.1		ug/L		91	72 - 133	
Chlorobenzene	20.0	18.1		ug/L		90	75 - 121	
Chloroethane	20.0	18.8		ug/L		94	55 - 138	
Chloroform	20.0	18.0		ug/L		90	72 - 121	
Chloromethane	20.0	17.0		ug/L		85	57 - 129	
cis-1,2-Dichloroethene	20.0	18.0		ug/L		90	76 - 121	
cis-1,3-Dichloropropene	20.0	18.3		ug/L		92	70 - 129	
Dibromochloromethane	20.0	19.4		ug/L		97	70 - 131	
Dibromomethane	20.0	19.4		ug/L		97	70 - 131	
Ethylbenzene	20.0	18.4		ug/L		92	75 - 127	
Iodomethane	40.0	28.7		ug/L		72	50 - 150	
m,p-Xylene	40.0	38.0		ug/L		95	76 - 128	
Methylene Chloride	20.0	18.1		ug/L		90	68 - 131	
o-Xylene	20.0	18.8		ug/L		94	78 - 124	
Styrene	20.0	19.2		ug/L		96	71 - 129	

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 705-12341/2**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Tetrachloroethene	20.0	17.7		ug/L	88	74 - 129	
Toluene	20.0	18.0		ug/L	90	74 - 124	
trans-1,2-Dichloroethene	20.0	18.3		ug/L	91	74 - 124	
trans-1,3-Dichloropropene	20.0	17.4		ug/L	87	59 - 135	
trans-1,4-Dichloro-2-butene	40.0	33.0		ug/L	82	50 - 150	
Trichloroethene	20.0	17.7		ug/L	88	72 - 129	
Trichlorofluoromethane	20.0	15.8		ug/L	79	63 - 142	
Vinyl acetate	40.0	43.5		ug/L	109	50 - 150	
Vinyl chloride	20.0	17.9		ug/L	89	65 - 132	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		70 - 126
Dibromofluoromethane (Surr)	99		77 - 121
Toluene-d8 (Surr)	98		79 - 119

**Lab Sample ID: MRL 705-12341/3**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	5.00	3.45	J	ug/L	69		
Acetone	10.0	5.49	J	ug/L	55		
Carbon disulfide	10.0	6.11		ug/L	61		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene	99		70 - 126
Dibromofluoromethane (Surr)	100		77 - 121
Toluene-d8 (Surr)	96		79 - 119

**Lab Sample ID: 705-7086-A-3 MS ^500**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	ND		10000	9630		ug/L	96	69 - 133	
1,1,1-Trichloroethane	ND		10000	9130		ug/L	91	69 - 135	
1,1,2,2-Tetrachloroethane	ND		10000	10700		ug/L	107	68 - 132	
1,1,2-Trichloroethane	ND		10000	9970		ug/L	100	71 - 133	
1,1-Dichloroethane	ND		10000	9430		ug/L	94	70 - 133	
1,1-Dichloroethene	ND		10000	7850		ug/L	78	69 - 139	
1,2,3-Trichloropropane	ND		10000	8360		ug/L	84	66 - 132	
1,2-Dibromo-3-Chloropropane	ND		10000	10900		ug/L	109	62 - 127	
1,2-Dibromoethane	ND		10000	10000		ug/L	100	76 - 129	
1,2-Dichlorobenzene	ND		10000	9940		ug/L	99	76 - 125	
1,2-Dichloroethane	ND		10000	9290		ug/L	93	70 - 133	
1,2-Dichloropropane	ND		10000	10100		ug/L	101	69 - 132	
1,4-Dichlorobenzene	ND		10000	9330		ug/L	93	76 - 124	
2-Butanone	ND		20000	ND		ug/L	107	50 - 150	

Eurofins Atlanta

# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 705-7086-A-3 MS ^500**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
2-Hexanone	ND		20000	23000		ug/L	115	50 - 150	
4-Methyl-2-pentanone	ND		20000	22800		ug/L	114	50 - 150	
Acetone	ND		20000	ND		ug/L	82	50 - 150	
Acrylonitrile	ND		10000	8140		ug/L	81	50 - 150	
Benzene	3400		10000	13700		ug/L	103	71 - 133	
Bromochloromethane	ND		10000	9650		ug/L	96	70 - 133	
Bromodichloromethane	ND		10000	9340		ug/L	93	68 - 133	
Bromoform	ND		10000	9240		ug/L	92	58 - 130	
Bromomethane	ND		10000	8440		ug/L	84	50 - 150	
Carbon disulfide	ND		20000	14400		ug/L	72	50 - 150	
Carbon tetrachloride	ND		10000	9420		ug/L	94	70 - 139	
Chlorobenzene	ND		10000	9430		ug/L	94	78 - 128	
Chloroethane	ND		10000	9200		ug/L	92	50 - 150	
Chloroform	ND		10000	9330		ug/L	93	68 - 132	
Chloromethane	ND		10000	8930		ug/L	89	50 - 150	
cis-1,2-Dichloroethene	ND		10000	9540		ug/L	95	72 - 133	
cis-1,3-Dichloropropene	ND		10000	9390		ug/L	94	70 - 128	
Dibromochloromethane	ND		10000	9640		ug/L	96	68 - 130	
Dibromomethane	ND		10000	9710		ug/L	97	72 - 130	
Ethylbenzene	2800		10000	13500		ug/L	107	75 - 131	
Iodomethane	ND		20000	15400		ug/L	77	50 - 150	
m,p-Xylene	10000		20000	31300		ug/L	106	73 - 133	
Methylene Chloride	ND	F2	10000	7300		ug/L	73	66 - 132	
o-Xylene	ND		10000	14600		ug/L	114	73 - 132	
Styrene	ND		10000	10200		ug/L	102	73 - 133	
Tetrachloroethene	ND		10000	9450		ug/L	95	74 - 135	
Toluene	6200		10000	16600		ug/L	104	72 - 134	
trans-1,2-Dichloroethene	ND		10000	7800		ug/L	78	71 - 132	
trans-1,3-Dichloropropene	ND		10000	9350		ug/L	94	60 - 125	
trans-1,4-Dichloro-2-butene	ND		20000	13200		ug/L	66	50 - 150	
Trichloroethene	ND		10000	9480		ug/L	95	77 - 136	
Trichlorofluoromethane	ND		10000	8690		ug/L	87	69 - 133	
Vinyl acetate	ND		20000	22500		ug/L	113	50 - 150	
Vinyl chloride	ND		10000	9560		ug/L	96	66 - 138	

Surrogate	MS Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	96		70 - 126
Dibromofluoromethane (Surr)	97		77 - 121
Toluene-d8 (Surr)	100		79 - 119

**Lab Sample ID: 705-7086-A-3 MSD ^500**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	ND		10000	9650		ug/L	97	69 - 133		0	18
1,1,1-Trichloroethane	ND		10000	8940		ug/L	89	69 - 135		2	20
1,1,2,2-Tetrachloroethane	ND		10000	10400		ug/L	104	68 - 132		3	19

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 705-7086-A-3 MSD ^500**

**Matrix: Water**

**Analysis Batch: 12341**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		10000	9300		ug/L	93	71 - 133	7	20	
1,1-Dichloroethane	ND		10000	9420		ug/L	94	70 - 133	0	22	
1,1-Dichloroethene	ND		10000	10000		ug/L	100	69 - 139	24	56	
1,2,3-Trichloropropane	ND		10000	8540		ug/L	85	66 - 132	2	39	
1,2-Dibromo-3-Chloropropane	ND		10000	10400		ug/L	104	62 - 127	5	20	
1,2-Dibromoethane	ND		10000	9690		ug/L	97	76 - 129	3	20	
1,2-Dichlorobenzene	ND		10000	9680		ug/L	97	76 - 125	3	20	
1,2-Dichloroethane	ND		10000	9170		ug/L	92	70 - 133	1	41	
1,2-Dichloropropane	ND		10000	9770		ug/L	98	69 - 132	3	20	
1,4-Dichlorobenzene	ND		10000	9010		ug/L	90	76 - 124	4	20	
2-Butanone	ND		20000	ND		ug/L	107	50 - 150	0	20	
2-Hexanone	ND		20000	21300		ug/L	107	50 - 150	8	50	
4-Methyl-2-pentanone	ND		20000	21000		ug/L	105	50 - 150	8	50	
Acetone	ND		20000	ND		ug/L	113	50 - 150	33	50	
Acrylonitrile	ND		10000	11000		ug/L	110	50 - 150	30	100	
Benzene	3400		10000	13400		ug/L	100	71 - 133	2	42	
Bromochloromethane	ND		10000	9440		ug/L	94	70 - 133	2	20	
Bromodichloromethane	ND		10000	9100		ug/L	91	68 - 133	3	20	
Bromoform	ND		10000	9050		ug/L	90	58 - 130	2	20	
Bromomethane	ND		10000	8560		ug/L	86	50 - 150	1	100	
Carbon disulfide	ND		20000	18400		ug/L	92	50 - 150	24	50	
Carbon tetrachloride	ND		10000	9280		ug/L	93	70 - 139	2	22	
Chlorobenzene	ND		10000	9320		ug/L	93	78 - 128	1	50	
Chloroethane	ND		10000	8780		ug/L	88	50 - 150	5	100	
Chloroform	ND		10000	9250		ug/L	93	68 - 132	1	20	
Chloromethane	ND		10000	8700		ug/L	87	50 - 150	3	100	
cis-1,2-Dichloroethene	ND		10000	9700		ug/L	97	72 - 133	2	14	
cis-1,3-Dichloropropene	ND		10000	8880		ug/L	89	70 - 128	6	14	
Dibromochloromethane	ND		10000	9480		ug/L	95	68 - 130	2	20	
Dibromomethane	ND		10000	9650		ug/L	97	72 - 130	1	20	
Ethylbenzene	2800		10000	13200		ug/L	104	75 - 131	2	28	
Iodomethane	ND		20000	18700		ug/L	93	50 - 150	19	50	
m,p-Xylene	10000		20000	31100		ug/L	105	73 - 133	1	28	
Methylene Chloride	ND	F2	10000	9330	F2	ug/L	93	66 - 132	24	20	
o-Xylene	ND		10000	14500		ug/L	114	73 - 132	0	28	
Styrene	ND		10000	10200		ug/L	102	73 - 133	1	20	
Tetrachloroethene	ND		10000	9270		ug/L	93	74 - 135	2	20	
Toluene	6200		10000	15700		ug/L	95	72 - 134	5	42	
trans-1,2-Dichloroethene	ND		10000	9500		ug/L	95	71 - 132	20	20	
trans-1,3-Dichloropropene	ND		10000	8510		ug/L	85	60 - 125	9	20	
trans-1,4-Dichloro-2-butene	ND		20000	13100		ug/L	66	50 - 150	1	50	
Trichloroethene	ND		10000	9230		ug/L	92	77 - 136	3	51	
Trichlorofluoromethane	ND		10000	8360		ug/L	84	69 - 133	4	23	
Vinyl acetate	ND		20000	22600		ug/L	113	50 - 150	0	50	
Vinyl chloride	ND		10000	9130		ug/L	91	66 - 138	5	23	

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene	99		70 - 126

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID:** 705-7086-A-3 MSD ^500

**Client Sample ID:** Matrix Spike Duplicate  
**Prep Type:** Total/NA

**Matrix:** Water

**Analysis Batch:** 12341

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		77 - 121
Toluene-d8 (Surr)	98		79 - 119

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

**Lab Sample ID:** MB 705-12406/2-A

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 12406

**Matrix:** Water

**Analysis Batch:** 12723

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2-Dibromoethane	ND		0.020	ug/L		09/18/24 11:25	09/18/24 12:27	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/18/24 11:25	09/18/24 12:27	17.5

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	129		74 - 131	09/18/24 11:25	09/18/24 12:27	17.5

**Lab Sample ID:** HLCs 705-12406/5-A

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 12406

**Matrix:** Water

**Analysis Batch:** 12723

Analyte	Spike	HLCs	HLCs	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
1,2-Dibromoethane	0.250	0.260		ug/L		104	60 - 140
1,2-Dibromo-3-Chloropropane	0.250	0.270		ug/L		108	60 - 140

Surrogate	HLCS	HLCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	131		74 - 131	09/18/24 11:25	09/18/24 12:27	17.5

**Lab Sample ID:** LCS 705-12406/3-A

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 12406

**Matrix:** Water

**Analysis Batch:** 12723

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
1,2-Dibromoethane	0.100	0.110		ug/L		110	60 - 140
1,2-Dibromo-3-Chloropropane	0.100	0.110		ug/L		110	60 - 140

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	130		74 - 131	09/18/24 11:25	09/18/24 12:27	17.5

**Lab Sample ID:** LCSD 705-12406/4-A

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 12406

**Matrix:** Water

**Analysis Batch:** 12723

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
1,2-Dibromoethane	0.100	0.110		ug/L		110	60 - 140	0	20
1,2-Dibromo-3-Chloropropane	0.100	0.100		ug/L		100	60 - 140	10	20

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

**Lab Sample ID: LCSD 705-12406/4-A**

**Matrix: Water**

**Analysis Batch: 12723**

Surrogate	LCSD Result	LCSD %Recovery	Qualifier	Limits
4-Bromofluorobenzene		128		74 - 131

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 12406**

**Lab Sample ID: 705-7156-3 MS**

**Matrix: Water**

**Analysis Batch: 12723**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,2-Dibromoethane	ND		0.0997	0.0997		ug/L		100	73 - 136
1,2-Dibromo-3-Chloropropane	ND		0.0997	0.0897		ug/L		90	73 - 132
<b>Surrogate</b>									
<b>4-Bromofluorobenzene</b>									
<b>MS %Recovery</b>									
<b>121</b>									
<b>Limits</b>									
<b>74 - 131</b>									

**Lab Sample ID: 705-7156-1 DU**

**Matrix: Water**

**Analysis Batch: 12723**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1,2-Dibromoethane	ND		ND		ug/L		NC	38
1,2-Dibromo-3-Chloropropane	ND		ND		ug/L		NC	
<b>Surrogate</b>								
<b>4-Bromofluorobenzene</b>								
<b>DU %Recovery</b>								
<b>124</b>								
<b>Limits</b>								
<b>74 - 131</b>								

## Method: 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 705-12402/2**

**Matrix: Water**

**Analysis Batch: 12402**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	mg/L			09/17/24 20:32	1

**Lab Sample ID: LCS 705-12402/1**

**Matrix: Water**

**Analysis Batch: 12402**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	10.0	9.44		mg/L		94	90 - 110

**Lab Sample ID: 705-7115-F-2 MS**

**Matrix: Water**

**Analysis Batch: 12402**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	37	F1	10.0	42.8	F1	mg/L		61	90 - 110

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 9056A - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 705-7115-F-2 MSD**

**Matrix: Water**

**Analysis Batch: 12402**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	37	F1	10.0	42.6	F1	mg/L	59	90 - 110	1	15	

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 705-11937/1-A**

**Matrix: Water**

**Analysis Batch: 12155**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 11937**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Antimony	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:10	1
Arsenic	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:10	1
Barium	ND		0.010	mg/L		09/16/24 08:10	09/16/24 17:10	1
Beryllium	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 17:10	1
Cadmium	ND		0.00070	mg/L		09/16/24 08:10	09/16/24 17:10	1
Chromium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:10	1
Cobalt	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:10	1
Copper	ND		0.0020	mg/L		09/16/24 08:10	09/16/24 17:10	1
Lead	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 17:10	1
Nickel	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:10	1
Selenium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:10	1
Silver	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 17:10	1
Thallium	ND		0.0010	mg/L		09/16/24 08:10	09/16/24 17:10	1
Vanadium	ND		0.0050	mg/L		09/16/24 08:10	09/16/24 17:10	1
Zinc	ND		0.010	mg/L		09/16/24 08:10	09/16/24 17:10	1

**Lab Sample ID: LCS 705-11937/2-A**

**Matrix: Water**

**Analysis Batch: 12155**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 11937**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Antimony	0.100	0.0898		mg/L	90	80 - 120	
Arsenic	0.100	0.0908		mg/L	91	80 - 120	
Barium	0.100	0.0987		mg/L	99	80 - 120	
Beryllium	0.100	0.0863		mg/L	86	80 - 120	
Cadmium	0.100	0.0889		mg/L	89	80 - 120	
Chromium	0.100	0.0917		mg/L	92	80 - 120	
Cobalt	0.100	0.0913		mg/L	91	80 - 120	
Copper	0.100	0.0900		mg/L	90	80 - 120	
Lead	0.100	0.0855		mg/L	86	80 - 120	
Nickel	0.100	0.0926		mg/L	93	80 - 120	
Selenium	0.100	0.0913		mg/L	91	80 - 120	
Silver	0.0100	0.00892		mg/L	89	80 - 120	
Thallium	0.100	0.0862		mg/L	86	80 - 120	
Vanadium	0.100	0.0921		mg/L	92	80 - 120	
Zinc	0.100	0.0908		mg/L	91	80 - 120	

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 705-7156-10 MS**

**Matrix: Water**

**Analysis Batch: 12155**

**Client Sample ID: Duplicate 3**

**Prep Type: Total Recoverable**

**Prep Batch: 11937**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	ND		0.100	0.0910		mg/L		91	75 - 125		
Arsenic	ND		0.100	0.0900		mg/L		90	75 - 125		
Barium	0.046		0.100	0.144		mg/L		98	75 - 125		
Beryllium	ND		0.100	0.0838		mg/L		84	75 - 125		
Cadmium	ND		0.100	0.0891		mg/L		89	75 - 125		
Chromium	ND		0.100	0.0928		mg/L		93	75 - 125		
Cobalt	ND		0.100	0.0917		mg/L		92	75 - 125		
Copper	ND		0.100	0.0929		mg/L		91	75 - 125		
Lead	ND		0.100	0.0859		mg/L		86	75 - 125		
Nickel	ND		0.100	0.0919		mg/L		91	75 - 125		
Selenium	ND		0.100	0.0902		mg/L		90	75 - 125		
Silver	ND		0.0100	0.00880		mg/L		88	75 - 125		
Thallium	ND		0.100	0.0857		mg/L		86	75 - 125		
Vanadium	ND		0.100	0.0939		mg/L		94	75 - 125		
Zinc	ND		0.100	0.0942		mg/L		94	75 - 125		

**Lab Sample ID: 705-7156-10 MSD**

**Matrix: Water**

**Analysis Batch: 12155**

**Client Sample ID: Duplicate 3**

**Prep Type: Total Recoverable**

**Prep Batch: 11937**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	ND		0.100	0.0940		mg/L		94	75 - 125	3	20
Arsenic	ND		0.100	0.0928		mg/L		93	75 - 125	3	20
Barium	0.046		0.100	0.147		mg/L		101	75 - 125	2	20
Beryllium	ND		0.100	0.0833		mg/L		83	75 - 125	1	20
Cadmium	ND		0.100	0.0889		mg/L		89	75 - 125	0	20
Chromium	ND		0.100	0.0947		mg/L		95	75 - 125	2	20
Cobalt	ND		0.100	0.0940		mg/L		94	75 - 125	3	20
Copper	ND		0.100	0.0949		mg/L		93	75 - 125	2	20
Lead	ND		0.100	0.0882		mg/L		88	75 - 125	3	20
Nickel	ND		0.100	0.0941		mg/L		94	75 - 125	2	20
Selenium	ND		0.100	0.0914		mg/L		91	75 - 125	1	20
Silver	ND		0.0100	0.00905		mg/L		91	75 - 125	3	20
Thallium	ND		0.100	0.0877		mg/L		88	75 - 125	2	20
Vanadium	ND		0.100	0.0969		mg/L		97	75 - 125	3	20
Zinc	ND		0.100	0.0974		mg/L		97	75 - 125	3	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 705-12080/1-A**

**Matrix: Water**

**Analysis Batch: 12294**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 12080**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/16/24 14:32	09/16/24 20:08	1

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 705-12080/2-A**

**Matrix: Water**

**Analysis Batch: 12294**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 12080**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.00423		mg/L	106	80 - 120	

**Lab Sample ID: 705-7034-G-4-B MS**

**Matrix: Water**

**Analysis Batch: 12294**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 12080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00400	0.00396		mg/L	99	75 - 125	

**Lab Sample ID: 705-7034-G-4-C MSD**

**Matrix: Water**

**Analysis Batch: 12294**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 12080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
Mercury	ND		0.00400	0.00389		mg/L	97	75 - 125	2	20

**Lab Sample ID: MB 705-12513/1-A**

**Matrix: Water**

**Analysis Batch: 12764**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 12513**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/18/24 14:19	09/18/24 19:39	1

**Lab Sample ID: LCS 705-12513/2-A**

**Matrix: Water**

**Analysis Batch: 12764**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 12513**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.00436		mg/L	109	80 - 120	

**Lab Sample ID: 705-7156-7 MS**

**Matrix: Water**

**Analysis Batch: 12764**

**Client Sample ID: GC-SWA-1**

**Prep Type: Total/NA**

**Prep Batch: 12513**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00400	0.00428		mg/L	107	75 - 125	

**Lab Sample ID: 705-7156-7 MSD**

**Matrix: Water**

**Analysis Batch: 12764**

**Client Sample ID: GC-SWA-1**

**Prep Type: Total/NA**

**Prep Batch: 12513**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
Mercury	ND		0.00400	0.00432		mg/L	108	75 - 125	1	20

# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 410.4 - COD

**Lab Sample ID: MB 705-12308/1**

**Matrix: Water**

**Analysis Batch: 12308**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	mg/L			09/17/24 16:16	1

**Lab Sample ID: LCS 705-12308/2**

**Matrix: Water**

**Analysis Batch: 12308**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	500	473		mg/L		95	90 - 110

**Lab Sample ID: 705-7156-7 MS**

**Matrix: Water**

**Analysis Batch: 12308**

**Client Sample ID: GC-SWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	ND		375	356		mg/L		95	90 - 110

**Lab Sample ID: 705-7156-7 MSD**

**Matrix: Water**

**Analysis Batch: 12308**

**Client Sample ID: GC-SWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chemical Oxygen Demand	ND		375	364		mg/L		97	90 - 110	2	30

## Method: 9014 - Cyanide

**Lab Sample ID: MB 705-12541/1-A**

**Matrix: Water**

**Analysis Batch: 12712**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 12541**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	mg/L		09/19/24 12:30	09/19/24 14:52	1

**Lab Sample ID: LCS 705-12541/2-A**

**Matrix: Water**

**Analysis Batch: 12712**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 12541**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.250	0.259		mg/L		104	85 - 115

**Lab Sample ID: 705-7156-7 MS**

**Matrix: Water**

**Analysis Batch: 12712**

**Client Sample ID: GC-SWA-1**  
**Prep Type: Total/NA**  
**Prep Batch: 12541**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	ND	F2	0.250	0.250		mg/L		100	70 - 130

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 9014 - Cyanide (Continued)

**Lab Sample ID: 705-7156-7 MSD**

**Matrix: Water**

**Analysis Batch: 12712**

**Client Sample ID: GC-SWA-1**

**Prep Type: Total/NA**

**Prep Batch: 12541**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Cyanide, Total	ND	F2	0.250	0.201	F2	mg/L		80	70 - 130	22	20

## Method: 9060A - Organic Carbon, Total (TOC)

**Lab Sample ID: MB 705-12383/1**

**Matrix: Water**

**Analysis Batch: 12383**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Organic Carbon - Quad	ND		1.0	mg/L			09/17/24 14:30	1

**Lab Sample ID: LCS 705-12383/4**

**Matrix: Water**

**Analysis Batch: 12383**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
TOC Result 1	25.0	25.4		mg/L		102	85 - 115
TOC Result 2	25.0	25.8		mg/L		103	85 - 115
TOC Result 3	25.0	26.1		mg/L		104	85 - 115
TOC Result 4	25.0	26.0		mg/L		104	85 - 115
Total Organic Carbon - Quad	25.0	25.8		mg/L		103	85 - 115

**Lab Sample ID: MRL 705-12383/6**

**Matrix: Water**

**Analysis Batch: 12383**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
TOC Result 1	1.00	1.04		mg/L		104	50 - 150
TOC Result 2	1.00	1.06		mg/L		106	50 - 150
TOC Result 3	1.00	1.15		mg/L		115	50 - 150
TOC Result 4	1.00	1.17		mg/L		117	50 - 150
Total Organic Carbon - Quad	1.00	1.10		mg/L		110	50 - 150

**Lab Sample ID: 705-7156-7 MS**

**Matrix: Water**

**Analysis Batch: 12383**

**Client Sample ID: GC-SWA-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier					
TOC Result 1	4.0		25.0	29.3		mg/L		101	80 - 120	
TOC Result 2	4.5		25.0	30.3		mg/L		103	80 - 120	
TOC Result 3	4.8		25.0	31.0		mg/L		105	80 - 120	
TOC Result 4	4.6		25.0	30.7		mg/L		105	80 - 120	
Total Organic Carbon - Quad	4.5		25.0	30.3		mg/L		103	80 - 120	

**Lab Sample ID: 705-7156-7 MSD**

**Matrix: Water**

**Analysis Batch: 12383**

**Client Sample ID: GC-SWA-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
TOC Result 1	4.0		25.0	30.8		mg/L		107	80 - 120	5	20

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

## Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 705-7156-7 MSD

Client Sample ID: GC-SWA-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 12383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
TOC Result 2	4.5		25.0	30.7		mg/L	105	80 - 120		1	20
TOC Result 3	4.8		25.0	31.1		mg/L	105	80 - 120		0	20
TOC Result 4	4.6		25.0	30.8		mg/L	105	80 - 120		0	20
Total Organic Carbon - Quad	4.5		25.0	30.8		mg/L	105	80 - 120		2	20

## Accreditation/Certification Summary

Client: Oasis Consulting Services

Job ID: 705-7156-1

Project/Site: Gun Club Road Landfill - Second Event

### Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

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# Method Summary

Client: Oasis Consulting Services

Project/Site: Gun Club Road Landfill - Second Event

Job ID: 705-7156-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ATL
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET ATL
9056A	Anions, Ion Chromatography	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
7470A	Mercury (CVAA)	SW846	EET ATL
410.4	COD	EPA	EET ATL
9014	Cyanide	SW846	EET ATL
9060A	Organic Carbon, Total (TOC)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
5030B	Purge and Trap	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL
8011	Microextraction	SW846	EET ATL
9010C	Cyanide, Distillation	SW846	EET ATL

## Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

# Sample Summary

Client: Oasis Consulting Services

Project/Site: Gun Club Road Landfill - Second Event

Job ID: 705-7156-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-7156-1	GC-GWC-3R	Water	09/11/24 12:15	09/11/24 15:29
705-7156-2	GC-GWC-4	Water	09/11/24 13:45	09/11/24 15:29
705-7156-3	GC-GWC-5	Water	09/11/24 11:45	09/11/24 15:29
705-7156-4	GC-GWC-11	Water	09/11/24 11:20	09/11/24 15:29
705-7156-5	GC-GWC-12	Water	09/11/24 13:10	09/11/24 15:29
705-7156-6	Duplicate 2	Water	09/11/24 00:00	09/11/24 15:29
705-7156-7	GC-SWA-1	Water	09/11/24 11:40	09/11/24 15:29
705-7156-8	GC-SWC-1	Water	09/11/24 11:00	09/11/24 15:29
705-7156-9	GC-SWC-3	Water	09/11/24 10:05	09/11/24 15:29
705-7156-10	Duplicate 3	Water	09/11/24 00:00	09/11/24 15:29
705-7156-11	Trip Blank	Water	09/11/24 07:00	09/11/24 15:29

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**END OF REPORT**

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ashley Butterfield  
Oasis Consulting Services  
885 Woodstock Rd  
Suite 430  
PMB 382  
Roswell, Georgia 30075

Generated 9/25/2024 11:06:05 AM

## JOB DESCRIPTION

Gun Club Road LF Second Event

## JOB NUMBER

705-7410-1

# Eurofins Atlanta

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

### Authorization



Generated  
9/25/2024 11:06:05 AM

Authorized for release by  
Shawn Boyd, Project Manager  
[shawn.boyd@et.eurofinsus.com](mailto:shawn.boyd@et.eurofinsus.com)  
(770)457-8177

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# Definitions/Glossary

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

## Glossary

### Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Environment Testing

Eurofins Environment Testing Southeast-Atlanta, LLC  
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

Work Order: \_\_\_\_\_  
Page 1 of 2

## CHAIN OF CUSTODY

COMPANY: <b>Oasis Consulting</b>		ADDRESS: 45 Woodstock St Roswell GA 30075		ANALYSIS REQUESTED										Visit our website <a href="http://www.EurofinsUS.com">www.EurofinsUS.com</a> for downloadable COCs.	Number of Containers				
PHONE: 678-739-2400		EMAIL: cmaughon@oasis-cs.com / bnolin@oasis-cs.com		App I VOC	Micro Extractables	App I Metals + Hg													
SAMPLED BY:		SIGNATURE:		PRESERVATION (see codes)										REMARKS					
#	SAMPLE ID	SAMPLED:		DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H+I	I	N+I								
1	GC-GWA-1	9/16/24 11:30						GW	✓	✓	✓						5		
2	GC-GWA-2R					✓		GW	✓	✓	✓						5		
3	GC-GWA-3R	9/16/24 10:45				✓		GW	✓	✓	✓						5		
4	GC-GWC-1	9/16/24 11:30				✓		GW	✓	✓	✓						5		
5	GC-GWC-2					✓		GW	✓	✓	✓						5		
6	GC-GWC-3R	On 9/16 - 9/16/24 11:45				✓		GW	✓	✓	✓						5		
7	GC-GWC-4					✓		GW	✓	✓	✓						5		
8	GC-GWC-5					✓		GW	✓	✓	✓						5		
9	GC-GWC-6	9/16/24 10:00				✓		GW	✓	✓	✓						5		
10	GC-GWC-7	9/16/24 12:25				✓		GW	✓	✓	✓						5		
11	GC-GWC-8					✓		GW	✓	✓	✓						5		
12	GC-GWC-9	9/16/24 11:15				✓		GW	✓	✓	✓						5		
13	GC-GWC-10	9/16/24 12:50				✓		GW	✓	✓	✓						5		
14	Trip Blank	9/16/24 0700				✓		W	✓								2		
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1. <i>Jamie Deller</i> 9/16/24 15:35		1. Anna Neill 9-16-24 15:35		PROJECT NAME: <b>Gun Club Rd LF Second Event</b>										Total # of Containers					
2.		2.		PROJECT #: _____										Turnaround Time (TAT) Request in Business Days					
3.		3.		SITE ADDRESS: _____										<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> 4-Day Rush*				
SEND REPORT TO: <b>cmaughon@oasis-cs.com</b>												<input type="checkbox"/> 3-Day Rush*	<input type="checkbox"/> 2-Day Rush*						
INVOICE TO (IF DIFFERENT FROM ABOVE): <b>accounting@oasis-cs.com</b>												<input type="checkbox"/> Next Day Rush*	<input type="checkbox"/> Other _____						
QUOTE #: _____ PO #: _____												<input type="checkbox"/> Same-Day Rush* (auth req.)	* Surcharges apply for Rush TAT						
												REGULATORY PROGRAM (if any):							
												DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>							
Submission of samples to the laboratory constitutes acceptance of EETSE'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, EETSE-Atlanta will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																			

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

2.27.24\_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 NaOH=SH O = Other (specify) NA = None



Environment Testing

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Page 2 of 2

## CHAIN OF CUSTODY

COMPANY: <b>Oasis Consulting</b>		ADDRESS: <b>45 Woodstock St Roswell GA 30075</b>		ANALYSIS REQUESTED										Visit our website <a href="http://www.EurofinsUS.com">www.EurofinsUS.com</a> for downloadable COCs.	Number of Containers		
PHONE: <b>678-739-2400</b>		EMAIL: <b>cmaughon@oasis-cs.com / bnolin@oasis-cs.com</b>		App I VOC	Mico Extractables	App I Metals + HG											
SAMPLED BY:		SIGNATURE:															
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)							REMARKS			
		DATE	TIME				H + I	I	N + I								
1	GC-GWC-7D	9/16/24	14:00			GW	✓								2		
2	GC-GWC-11					GW	✓								2		
3	GC-GWC-12					GW	✓								2		
4	GC-Duplicate 1	9/16/24	-			GW	✓	✓	✓						5		
5	GC-Duplicate 2					W	✓	✓	✓						5		
6	GC-Equipment Blank	9/16/24	12:00			W	✓	✓	✓						5		
7	GC-Field Blank	9/16/24	11:55			W	✓	✓	✓						5		
8	Trip Blank						✓								2		
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RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION							RECEIPT		
<i>Jamie Jim</i> 9/16/24 15:15		1. Anna Neal 9-16-24 1535						PROJECT NAME: <b>Gun Club Rd LF Second Event</b>							Total # of Containers		
2.		2.						PROJECT #:							Turnaround Time (TAT) Request in Business Days		
3.		3.						SITE ADDRESS:							<input type="checkbox"/> Standard	<input type="checkbox"/> 4-Day Rush*	
								SEND REPORT TO:							<input type="checkbox"/> 3-Day Rush*	<input type="checkbox"/> 2-Day Rush*	
								<b>cmaughon@oasis-cs.com</b>							<input type="checkbox"/> Next Day Rush*	<input type="checkbox"/> Other	
								INVOICE TO (IF DIFFERENT FROM ABOVE):							<input type="checkbox"/> Same-Day Rush* (auth req.)	* Surcharges apply for Rush TAT	
								<b>accounting@oasis-cs.com</b>							REGULATORY PROGRAM (If any):		
								QUOTE #: _____ PO#:							DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>		
Submission of samples to the laboratory constitutes acceptance of EETSE'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, EETSE-Atlanta will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																	

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

2.27.24\_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 NaOH=SH O = Other (specify) NA = None

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# Case Narrative

Client: Oasis Consulting Services  
Project: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Job ID: 705-7410-1**

**Eurofins Atlanta**

## Job Narrative 705-7410-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 9/16/2024 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

### Receipt Exceptions

Limited sample volume was received for the following samples: GC-GWC-9 (705-7410-5).

Sample GC-GWA-1 (705-7410-2) was logged in with the sample ID of "GC-GWA-1" rather than the ID listed on the Chain of Custody per request of Chase Maughon via email 9/17/24.

### GC/MS VOA

Method 8260D: The matrix spike (MS) and/or matrix spike duplicate (MSD) recovery for analytical batch 705-12970 was outside control limits for the following analyte(s): Chloromethane, Trichlorofluoromethane and Vinyl chloride. Results could not be evaluated for accuracy and precision for those analytes. Results may be biased but, the associated laboratory control sample (LCS) met acceptance criteria, therefore it has been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 705-13080 recovered outside control limits for the following analytes: Chloromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Due to the high concentration of Trichlorofluoromethane and Vinyl chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 705-13080 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC Semi VOA

Method 8011: Surrogate recovery for the following samples were outside control limits: GC-GWA-1 (705-7410-2), GC-DUPLICATE 1 (705-7410-9) and (705-7410-C-2-A DU). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWA-3R**

Date Collected: 09/16/24 11:45

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-1**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 19:10		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/20/24 19:10		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 19:10		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/20/24 19:10		1
1,1-Dichloroethane	ND		5.0	ug/L		09/20/24 19:10		1
1,1-Dichloroethene	ND		5.0	ug/L		09/20/24 19:10		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/20/24 19:10		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/20/24 19:10		1
1,2-Dibromoethane	ND		5.0	ug/L		09/20/24 19:10		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/20/24 19:10		1
1,2-Dichloroethane	ND		5.0	ug/L		09/20/24 19:10		1
1,2-Dichloropropane	ND		5.0	ug/L		09/20/24 19:10		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/20/24 19:10		1
2-Butanone	ND		50	ug/L		09/20/24 19:10		1
2-Hexanone	ND		10	ug/L		09/20/24 19:10		1
4-Methyl-2-pentanone	ND		10	ug/L		09/20/24 19:10		1
Acetone	ND		50	ug/L		09/20/24 19:10		1
Acrylonitrile	ND		5.0	ug/L		09/20/24 19:10		1
Benzene	ND		5.0	ug/L		09/20/24 19:10		1
Bromochloromethane	ND		5.0	ug/L		09/20/24 19:10		1
Bromodichloromethane	ND		5.0	ug/L		09/20/24 19:10		1
Bromoform	ND		5.0	ug/L		09/20/24 19:10		1
Bromomethane	ND		5.0	ug/L		09/20/24 19:10		1
Carbon disulfide	ND		5.0	ug/L		09/20/24 19:10		1
Carbon tetrachloride	ND		5.0	ug/L		09/20/24 19:10		1
Chlorobenzene	ND		5.0	ug/L		09/20/24 19:10		1
Chloroethane	ND		4.6	ug/L		09/20/24 19:10		1
Chloroform	ND		5.0	ug/L		09/20/24 19:10		1
Chloromethane	ND		10	ug/L		09/20/24 19:10		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 19:10		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 19:10		1
Dibromochloromethane	ND		5.0	ug/L		09/20/24 19:10		1
Dibromomethane	ND		5.0	ug/L		09/20/24 19:10		1
Ethylbenzene	ND		5.0	ug/L		09/20/24 19:10		1
Iodomethane	ND		10	ug/L		09/20/24 19:10		1
m,p-Xylene	ND		10	ug/L		09/20/24 19:10		1
Methylene Chloride	ND		5.0	ug/L		09/20/24 19:10		1
o-Xylene	ND		10	ug/L		09/20/24 19:10		1
Styrene	ND		5.0	ug/L		09/20/24 19:10		1
Tetrachloroethene	ND		5.0	ug/L		09/20/24 19:10		1
Toluene	ND		5.0	ug/L		09/20/24 19:10		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 19:10		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 19:10		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/20/24 19:10		1
Trichloroethene	ND		5.0	ug/L		09/20/24 19:10		1
Trichlorofluoromethane	ND		5.0	ug/L		09/20/24 19:10		1
Vinyl acetate	ND		10	ug/L		09/20/24 19:10		1
Vinyl chloride	ND		2.0	ug/L		09/20/24 19:10		1

Eurofins Atlanta

# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWA-3R**

Date Collected: 09/16/24 11:45

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-1**

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 126		09/20/24 19:10	1
Dibromofluoromethane (Surr)	98		77 - 121		09/20/24 19:10	1
Toluene-d8 (Surr)	100		79 - 119		09/20/24 19:10	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.019	ug/L		09/20/24 15:06	09/23/24 11:04	17.5
1,2-Dibromo-3-Chloropropane	ND		0.038	ug/L		09/20/24 15:06	09/23/24 11:04	17.5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	123		74 - 131			09/20/24 15:06	09/23/24 11:04	17.5

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:36	1
Arsenic	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:36	1
Barium	ND		0.020	mg/L		09/19/24 07:16	09/19/24 13:36	1
Beryllium	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:36	1
Cadmium	ND		0.00070	mg/L		09/19/24 07:16	09/19/24 13:36	1
Chromium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:36	1
Cobalt	ND		0.050	mg/L		09/19/24 07:16	09/19/24 13:36	1
<b>Copper</b>	<b>0.0026</b>		0.0020	mg/L		09/19/24 07:16	09/19/24 13:36	1
Lead	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:36	1
Nickel	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:36	1
Selenium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:36	1
Silver	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:36	1
Thallium	ND		0.0020	mg/L		09/19/24 07:16	09/19/24 13:36	1
Vanadium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:36	1
Zinc	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:36	1

## Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/19/24 13:58	09/19/24 19:57	1

**Client Sample ID: GC-GWA-1**

Date Collected: 09/16/24 11:30

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-2**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 19:33		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/20/24 19:33		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 19:33		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/20/24 19:33		1
1,1-Dichloroethane	ND		5.0	ug/L		09/20/24 19:33		1
1,1-Dichloroethene	ND		5.0	ug/L		09/20/24 19:33		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/20/24 19:33		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/20/24 19:33		1
1,2-Dibromoethane	ND		5.0	ug/L		09/20/24 19:33		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/20/24 19:33		1
1,2-Dichloroethane	ND		5.0	ug/L		09/20/24 19:33		1

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# Client Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWA-1**

Date Collected: 09/16/24 11:30

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-2**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	ug/L		09/20/24 19:33		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/20/24 19:33		1
2-Butanone	ND		50	ug/L		09/20/24 19:33		1
2-Hexanone	ND		10	ug/L		09/20/24 19:33		1
4-Methyl-2-pentanone	ND		10	ug/L		09/20/24 19:33		1
Acetone	ND		50	ug/L		09/20/24 19:33		1
Acrylonitrile	ND		5.0	ug/L		09/20/24 19:33		1
Benzene	ND		5.0	ug/L		09/20/24 19:33		1
Bromochloromethane	ND		5.0	ug/L		09/20/24 19:33		1
Bromodichloromethane	ND		5.0	ug/L		09/20/24 19:33		1
Bromoform	ND		5.0	ug/L		09/20/24 19:33		1
Bromomethane	ND		5.0	ug/L		09/20/24 19:33		1
Carbon disulfide	ND		5.0	ug/L		09/20/24 19:33		1
Carbon tetrachloride	ND		5.0	ug/L		09/20/24 19:33		1
Chlorobenzene	ND		5.0	ug/L		09/20/24 19:33		1
Chloroethane	ND		4.6	ug/L		09/20/24 19:33		1
Chloroform	ND		5.0	ug/L		09/20/24 19:33		1
Chloromethane	ND		10	ug/L		09/20/24 19:33		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 19:33		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 19:33		1
Dibromochloromethane	ND		5.0	ug/L		09/20/24 19:33		1
Dibromomethane	ND		5.0	ug/L		09/20/24 19:33		1
Ethylbenzene	ND		5.0	ug/L		09/20/24 19:33		1
Iodomethane	ND		10	ug/L		09/20/24 19:33		1
m,p-Xylene	ND		10	ug/L		09/20/24 19:33		1
Methylene Chloride	ND		5.0	ug/L		09/20/24 19:33		1
o-Xylene	ND		10	ug/L		09/20/24 19:33		1
Styrene	ND		5.0	ug/L		09/20/24 19:33		1
Tetrachloroethene	ND		5.0	ug/L		09/20/24 19:33		1
Toluene	ND		5.0	ug/L		09/20/24 19:33		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 19:33		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 19:33		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/20/24 19:33		1
Trichloroethene	ND		5.0	ug/L		09/20/24 19:33		1
Trichlorofluoromethane	ND		5.0	ug/L		09/20/24 19:33		1
Vinyl acetate	ND		10	ug/L		09/20/24 19:33		1
Vinyl chloride	ND		2.0	ug/L		09/20/24 19:33		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 126		09/20/24 19:33	1
Dibromofluoromethane (Surr)	97		77 - 121		09/20/24 19:33	1
Toluene-d8 (Surr)	98		79 - 119		09/20/24 19:33	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.019	ug/L		09/20/24 15:06	09/23/24 12:08	17.5
1,2-Dibromo-3-Chloropropane	ND		0.037	ug/L		09/20/24 15:06	09/23/24 12:08	17.5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene	135	S1+	74 - 131	09/20/24 15:06	09/23/24 12:08	17.5		

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWA-1**  
Date Collected: 09/16/24 11:30  
Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-2**  
Matrix: Water

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:39		1
Arsenic	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:39		1
<b>Barium</b>	<b>0.022</b>		0.020	mg/L	09/19/24 07:16	09/19/24 13:39		1
Beryllium	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:39		1
Cadmium	ND		0.00070	mg/L	09/19/24 07:16	09/19/24 13:39		1
Chromium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:39		1
Cobalt	ND		0.050	mg/L	09/19/24 07:16	09/19/24 13:39		1
Copper	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:39		1
Lead	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:39		1
Nickel	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:39		1
Selenium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:39		1
Silver	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:39		1
Thallium	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:39		1
Vanadium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:39		1
Zinc	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:39		1

## Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000020	mg/L	09/19/24 13:58	09/19/24 20:09		1

**Client Sample ID: GC-GWC-6**

Date Collected: 09/16/24 10:00  
Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-3**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/20/24 19:56	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/20/24 19:56	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/20/24 19:56	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/20/24 19:56	1
1,1-Dichloroethane	ND		5.0	ug/L			09/20/24 19:56	1
1,1-Dichloroethene	ND		5.0	ug/L			09/20/24 19:56	1
1,2,3-Trichloropropane	ND		5.0	ug/L			09/20/24 19:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			09/20/24 19:56	1
1,2-Dibromoethane	ND		5.0	ug/L			09/20/24 19:56	1
1,2-Dichlorobenzene	ND		5.0	ug/L			09/20/24 19:56	1
1,2-Dichloroethane	ND		5.0	ug/L			09/20/24 19:56	1
1,2-Dichloropropane	ND		5.0	ug/L			09/20/24 19:56	1
1,4-Dichlorobenzene	ND		5.0	ug/L			09/20/24 19:56	1
2-Butanone	ND		50	ug/L			09/20/24 19:56	1
2-Hexanone	ND		10	ug/L			09/20/24 19:56	1
4-Methyl-2-pentanone	ND		10	ug/L			09/20/24 19:56	1
Acetone	ND		50	ug/L			09/20/24 19:56	1
Acrylonitrile	ND		5.0	ug/L			09/20/24 19:56	1
Benzene	ND		5.0	ug/L			09/20/24 19:56	1
Bromochloromethane	ND		5.0	ug/L			09/20/24 19:56	1
Bromodichloromethane	ND		5.0	ug/L			09/20/24 19:56	1
Bromoform	ND		5.0	ug/L			09/20/24 19:56	1
Bromomethane	ND		5.0	ug/L			09/20/24 19:56	1
Carbon disulfide	ND		5.0	ug/L			09/20/24 19:56	1

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# Client Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWC-6**

Date Collected: 09/16/24 10:00

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-3**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	ug/L		09/20/24 19:56		1
Chlorobenzene	ND		5.0	ug/L		09/20/24 19:56		1
Chloroethane	ND		4.6	ug/L		09/20/24 19:56		1
Chloroform	ND		5.0	ug/L		09/20/24 19:56		1
Chloromethane	ND		10	ug/L		09/20/24 19:56		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 19:56		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 19:56		1
Dibromochloromethane	ND		5.0	ug/L		09/20/24 19:56		1
Dibromomethane	ND		5.0	ug/L		09/20/24 19:56		1
Ethylbenzene	ND		5.0	ug/L		09/20/24 19:56		1
Iodomethane	ND		10	ug/L		09/20/24 19:56		1
m,p-Xylene	ND		10	ug/L		09/20/24 19:56		1
Methylene Chloride	ND		5.0	ug/L		09/20/24 19:56		1
o-Xylene	ND		10	ug/L		09/20/24 19:56		1
Styrene	ND		5.0	ug/L		09/20/24 19:56		1
Tetrachloroethene	ND		5.0	ug/L		09/20/24 19:56		1
Toluene	ND		5.0	ug/L		09/20/24 19:56		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 19:56		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 19:56		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/20/24 19:56		1
Trichloroethene	ND		5.0	ug/L		09/20/24 19:56		1
Trichlorofluoromethane	ND		5.0	ug/L		09/20/24 19:56		1
Vinyl acetate	ND		10	ug/L		09/20/24 19:56		1
Vinyl chloride	ND		2.0	ug/L		09/20/24 19:56		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 126		09/20/24 19:56	1
Dibromofluoromethane (Surr)	97		77 - 121		09/20/24 19:56	1
Toluene-d8 (Surr)	99		79 - 119		09/20/24 19:56	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/20/24 15:06	09/23/24 22:05	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/20/24 15:06	09/23/24 22:05	17.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	122		74 - 131		09/20/24 15:06	09/23/24 22:05	17.5

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:41	1
Arsenic	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:41	1
<b>Barium</b>	<b>0.11</b>		0.020	mg/L		09/19/24 07:16	09/19/24 13:41	1
Beryllium	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:41	1
Cadmium	ND		0.00070	mg/L		09/19/24 07:16	09/19/24 13:41	1
Chromium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:41	1
Cobalt	ND		0.050	mg/L		09/19/24 07:16	09/19/24 13:41	1
Copper	ND		0.0020	mg/L		09/19/24 07:16	09/19/24 13:41	1
Lead	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:41	1
Nickel	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:41	1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWC-6**

Date Collected: 09/16/24 10:00

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-3**

Matrix: Water

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:41		1
Silver	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:41		1
Thallium	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:41		1
Vanadium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:41		1
Zinc	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:41		1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/19/24 13:58	09/19/24 20:13		1

**Client Sample ID: GC-GWC-7**

Date Collected: 09/16/24 12:25

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-4**

Matrix: Water

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/20/24 20:20	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/20/24 20:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/20/24 20:20	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/20/24 20:20	1
1,1-Dichloroethane	ND		5.0	ug/L			09/20/24 20:20	1
1,1-Dichloroethene	ND		5.0	ug/L			09/20/24 20:20	1
1,2,3-Trichloropropane	ND		5.0	ug/L			09/20/24 20:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			09/20/24 20:20	1
1,2-Dibromoethane	ND		5.0	ug/L			09/20/24 20:20	1
1,2-Dichlorobenzene	ND		5.0	ug/L			09/20/24 20:20	1
1,2-Dichloroethane	ND		5.0	ug/L			09/20/24 20:20	1
1,2-Dichloropropane	ND		5.0	ug/L			09/20/24 20:20	1
<b>1,4-Dichlorobenzene</b>	<b>17</b>		5.0	ug/L			09/20/24 20:20	1
2-Butanone	ND		50	ug/L			09/20/24 20:20	1
2-Hexanone	ND		10	ug/L			09/20/24 20:20	1
4-Methyl-2-pentanone	ND		10	ug/L			09/20/24 20:20	1
Acetone	ND		50	ug/L			09/20/24 20:20	1
Acrylonitrile	ND		5.0	ug/L			09/20/24 20:20	1
Benzene	ND		5.0	ug/L			09/20/24 20:20	1
Bromochloromethane	ND		5.0	ug/L			09/20/24 20:20	1
Bromodichloromethane	ND		5.0	ug/L			09/20/24 20:20	1
Bromoform	ND		5.0	ug/L			09/20/24 20:20	1
Bromomethane	ND		5.0	ug/L			09/20/24 20:20	1
Carbon disulfide	ND		5.0	ug/L			09/20/24 20:20	1
Carbon tetrachloride	ND		5.0	ug/L			09/20/24 20:20	1
<b>Chlorobenzene</b>	<b>5.6</b>		5.0	ug/L			09/20/24 20:20	1
Chloroethane	ND		4.6	ug/L			09/20/24 20:20	1
Chloroform	ND		5.0	ug/L			09/20/24 20:20	1
Chloromethane	ND		10	ug/L			09/20/24 20:20	1
cis-1,2-Dichloroethene	ND		5.0	ug/L			09/20/24 20:20	1
cis-1,3-Dichloropropene	ND		5.0	ug/L			09/20/24 20:20	1
Dibromochloromethane	ND		5.0	ug/L			09/20/24 20:20	1
Dibromomethane	ND		5.0	ug/L			09/20/24 20:20	1
Ethylbenzene	ND		5.0	ug/L			09/20/24 20:20	1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## Client Sample ID: GC-GWC-7

Date Collected: 09/16/24 12:25

Date Received: 09/16/24 15:35

## Lab Sample ID: 705-7410-4

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		10	ug/L		09/20/24 20:20		1
m,p-Xylene	ND		10	ug/L		09/20/24 20:20		1
Methylene Chloride	ND		5.0	ug/L		09/20/24 20:20		1
o-Xylene	ND		10	ug/L		09/20/24 20:20		1
Styrene	ND		5.0	ug/L		09/20/24 20:20		1
Tetrachloroethene	ND		5.0	ug/L		09/20/24 20:20		1
Toluene	ND		5.0	ug/L		09/20/24 20:20		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 20:20		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 20:20		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/20/24 20:20		1
Trichloroethene	ND		5.0	ug/L		09/20/24 20:20		1
Trichlorofluoromethane	ND		5.0	ug/L		09/20/24 20:20		1
Vinyl acetate	ND		10	ug/L		09/20/24 20:20		1
Vinyl chloride	ND		2.0	ug/L		09/20/24 20:20		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	98		70 - 126			09/20/24 20:20		1
Dibromofluoromethane (Surr)	99		77 - 121			09/20/24 20:20		1
Toluene-d8 (Surr)	100		79 - 119			09/20/24 20:20		1

### Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/20/24 15:06	09/23/24 22:23	17.5
1,2-Dibromo-3-Chloropropane	ND		0.039	ug/L		09/20/24 15:06	09/23/24 22:23	17.5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	127		74 - 131			09/20/24 15:06	09/23/24 22:23	17.5

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:43	1
Arsenic	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:43	1
<b>Barium</b>	<b>0.19</b>		0.020	mg/L		09/19/24 07:16	09/19/24 13:43	1
Beryllium	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:43	1
Cadmium	ND		0.00070	mg/L		09/19/24 07:16	09/19/24 13:43	1
Chromium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:43	1
<b>Cobalt</b>	<b>0.060</b>		0.050	mg/L		09/19/24 07:16	09/19/24 13:43	1
Copper	ND		0.0020	mg/L		09/19/24 07:16	09/19/24 13:43	1
Lead	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:43	1
<b>Nickel</b>	<b>0.0055</b>		0.0050	mg/L		09/19/24 07:16	09/19/24 13:43	1
Selenium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:43	1
Silver	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:43	1
Thallium	ND		0.0020	mg/L		09/19/24 07:16	09/19/24 13:43	1
Vanadium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:43	1
Zinc	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:43	1

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/19/24 13:58	09/19/24 20:16	1

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# Client Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWC-9**

Date Collected: 09/16/24 11:15

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-5**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 20:44		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/20/24 20:44		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 20:44		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/20/24 20:44		1
1,1-Dichloroethane	ND		5.0	ug/L		09/20/24 20:44		1
1,1-Dichloroethene	ND		5.0	ug/L		09/20/24 20:44		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/20/24 20:44		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/20/24 20:44		1
1,2-Dibromoethane	ND		5.0	ug/L		09/20/24 20:44		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/20/24 20:44		1
1,2-Dichloroethane	ND		5.0	ug/L		09/20/24 20:44		1
1,2-Dichloropropane	ND		5.0	ug/L		09/20/24 20:44		1
<b>1,4-Dichlorobenzene</b>	<b>6.7</b>		5.0	ug/L		09/20/24 20:44		1
2-Butanone	ND		50	ug/L		09/20/24 20:44		1
2-Hexanone	ND		10	ug/L		09/20/24 20:44		1
4-Methyl-2-pentanone	ND		10	ug/L		09/20/24 20:44		1
Acetone	ND		50	ug/L		09/20/24 20:44		1
Acrylonitrile	ND		5.0	ug/L		09/20/24 20:44		1
Benzene	ND		5.0	ug/L		09/20/24 20:44		1
Bromochloromethane	ND		5.0	ug/L		09/20/24 20:44		1
Bromodichloromethane	ND		5.0	ug/L		09/20/24 20:44		1
Bromoform	ND		5.0	ug/L		09/20/24 20:44		1
Bromomethane	ND		5.0	ug/L		09/20/24 20:44		1
Carbon disulfide	ND		5.0	ug/L		09/20/24 20:44		1
Carbon tetrachloride	ND		5.0	ug/L		09/20/24 20:44		1
<b>Chlorobenzene</b>	<b>5.4</b>		5.0	ug/L		09/20/24 20:44		1
Chloroethane	ND		4.6	ug/L		09/20/24 20:44		1
Chloroform	ND		5.0	ug/L		09/20/24 20:44		1
Chloromethane	ND		10	ug/L		09/20/24 20:44		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 20:44		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 20:44		1
Dibromochloromethane	ND		5.0	ug/L		09/20/24 20:44		1
Dibromomethane	ND		5.0	ug/L		09/20/24 20:44		1
Ethylbenzene	ND		5.0	ug/L		09/20/24 20:44		1
Iodomethane	ND		10	ug/L		09/20/24 20:44		1
m,p-Xylene	ND		10	ug/L		09/20/24 20:44		1
Methylene Chloride	ND		5.0	ug/L		09/20/24 20:44		1
o-Xylene	ND		10	ug/L		09/20/24 20:44		1
Styrene	ND		5.0	ug/L		09/20/24 20:44		1
Tetrachloroethene	ND		5.0	ug/L		09/20/24 20:44		1
Toluene	ND		5.0	ug/L		09/20/24 20:44		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 20:44		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 20:44		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/20/24 20:44		1
Trichloroethene	ND		5.0	ug/L		09/20/24 20:44		1
Trichlorofluoromethane	ND		5.0	ug/L		09/20/24 20:44		1
Vinyl acetate	ND		10	ug/L		09/20/24 20:44		1
Vinyl chloride	ND		2.0	ug/L		09/20/24 20:44		1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## **Client Sample ID: GC-GWC-9**

Date Collected: 09/16/24 11:15  
Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-5**

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 126		09/20/24 20:44	1
Dibromofluoromethane (Surr)	100		77 - 121		09/20/24 20:44	1
Toluene-d8 (Surr)	100		79 - 119		09/20/24 20:44	1

### **Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L	09/20/24 15:06	09/23/24 22:40	17.5	
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L	09/20/24 15:06	09/23/24 22:40	17.5	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	122		74 - 131		09/20/24 15:06	09/23/24 22:40	17.5	

### **Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Arsenic	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:46	1	
<b>Barium</b>	<b>0.14</b>		0.020	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Beryllium	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Cadmium	ND		0.00070	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Chromium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Cobalt	ND		0.050	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Copper	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Lead	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:46	1	
<b>Nickel</b>	<b>0.0076</b>		0.0050	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Selenium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Silver	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Thallium	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Vanadium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:46	1	
Zinc	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:46	1	

### **Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/19/24 13:58	09/19/24 20:32	1	

## **Client Sample ID: GC-GWC-10**

Date Collected: 09/16/24 12:50  
Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-6**

Matrix: Water

### **Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 05:46	1	
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 05:46	1	
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 05:46	1	
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 05:46	1	
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 05:46	1	
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 05:46	1	
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 05:46	1	
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 05:46	1	
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 05:46	1	
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 05:46	1	
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 05:46	1	

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

**Client Sample ID: GC-GWC-10**

**Lab Sample ID: 705-7410-6**

**Matrix: Water**

Date Collected: 09/16/24 12:50

Date Received: 09/16/24 15:35

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	ug/L		09/21/24 05:46		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 05:46		1
2-Butanone	ND		50	ug/L		09/21/24 05:46		1
2-Hexanone	ND		10	ug/L		09/21/24 05:46		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 05:46		1
Acetone	ND		50	ug/L		09/21/24 05:46		1
Acrylonitrile	ND		5.0	ug/L		09/21/24 05:46		1
Benzene	ND		5.0	ug/L		09/21/24 05:46		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 05:46		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 05:46		1
Bromoform	ND		5.0	ug/L		09/21/24 05:46		1
Bromomethane	ND		5.0	ug/L		09/21/24 05:46		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 05:46		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 05:46		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 05:46		1
Chloroethane	ND		4.6	ug/L		09/21/24 05:46		1
Chloroform	ND		5.0	ug/L		09/21/24 05:46		1
Chloromethane	ND *+		10	ug/L		09/21/24 05:46		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 05:46		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 05:46		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 05:46		1
Dibromomethane	ND		5.0	ug/L		09/21/24 05:46		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 05:46		1
Iodomethane	ND		10	ug/L		09/21/24 05:46		1
m,p-Xylene	ND		10	ug/L		09/21/24 05:46		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 05:46		1
o-Xylene	ND		10	ug/L		09/21/24 05:46		1
Styrene	ND		5.0	ug/L		09/21/24 05:46		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 05:46		1
Toluene	ND		5.0	ug/L		09/21/24 05:46		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 05:46		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 05:46		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 05:46		1
Trichloroethene	ND		5.0	ug/L		09/21/24 05:46		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 05:46		1
Vinyl acetate	ND		10	ug/L		09/21/24 05:46		1
Vinyl chloride	ND *+		2.0	ug/L		09/21/24 05:46		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 126		09/21/24 05:46	1
Dibromofluoromethane (Surr)	97		77 - 121		09/21/24 05:46	1
Toluene-d8 (Surr)	98		79 - 119		09/21/24 05:46	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/20/24 15:06	09/23/24 22:57	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/20/24 15:06	09/23/24 22:57	17.5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene	119		74 - 131		09/20/24 15:06	09/23/24 22:57	17.5	

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWC-10**

Date Collected: 09/16/24 12:50

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-6**

Matrix: Water

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:48		1
Arsenic	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:48		1
<b>Barium</b>	<b>0.17</b>		0.020	mg/L	09/19/24 07:16	09/19/24 13:48		1
Beryllium	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:48		1
Cadmium	ND		0.00070	mg/L	09/19/24 07:16	09/19/24 13:48		1
Chromium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:48		1
Cobalt	ND		0.050	mg/L	09/19/24 07:16	09/19/24 13:48		1
Copper	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:48		1
Lead	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:48		1
Nickel	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:48		1
Selenium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:48		1
Silver	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:48		1
Thallium	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:48		1
Vanadium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:48		1
Zinc	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:48		1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000020	mg/L	09/19/24 13:58	09/19/24 20:36		1

**Client Sample ID: TRIP BLANK**

Date Collected: 09/16/24 07:00

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-7**

Matrix: Water

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/21/24 01:03	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/21/24 01:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/21/24 01:03	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/21/24 01:03	1
1,1-Dichloroethane	ND		5.0	ug/L			09/21/24 01:03	1
1,1-Dichloroethene	ND		5.0	ug/L			09/21/24 01:03	1
1,2,3-Trichloropropane	ND		5.0	ug/L			09/21/24 01:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			09/21/24 01:03	1
1,2-Dibromoethane	ND		5.0	ug/L			09/21/24 01:03	1
1,2-Dichlorobenzene	ND		5.0	ug/L			09/21/24 01:03	1
1,2-Dichloroethane	ND		5.0	ug/L			09/21/24 01:03	1
1,2-Dichloropropane	ND		5.0	ug/L			09/21/24 01:03	1
1,4-Dichlorobenzene	ND		5.0	ug/L			09/21/24 01:03	1
2-Butanone	ND		50	ug/L			09/21/24 01:03	1
2-Hexanone	ND		10	ug/L			09/21/24 01:03	1
4-Methyl-2-pentanone	ND		10	ug/L			09/21/24 01:03	1
Acetone	ND		50	ug/L			09/21/24 01:03	1
Acrylonitrile	ND		5.0	ug/L			09/21/24 01:03	1
Benzene	ND		5.0	ug/L			09/21/24 01:03	1
Bromochloromethane	ND		5.0	ug/L			09/21/24 01:03	1
Bromodichloromethane	ND		5.0	ug/L			09/21/24 01:03	1
Bromoform	ND		5.0	ug/L			09/21/24 01:03	1
Bromomethane	ND		5.0	ug/L			09/21/24 01:03	1
Carbon disulfide	ND		5.0	ug/L			09/21/24 01:03	1

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# Client Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: TRIP BLANK**

Date Collected: 09/16/24 07:00

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-7**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 01:03		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 01:03		1
Chloroethane	ND		4.6	ug/L		09/21/24 01:03		1
Chloroform	ND		5.0	ug/L		09/21/24 01:03		1
Chloromethane	ND *+		10	ug/L		09/21/24 01:03		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 01:03		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 01:03		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 01:03		1
Dibromomethane	ND		5.0	ug/L		09/21/24 01:03		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 01:03		1
Iodomethane	ND		10	ug/L		09/21/24 01:03		1
m,p-Xylene	ND		10	ug/L		09/21/24 01:03		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 01:03		1
o-Xylene	ND		10	ug/L		09/21/24 01:03		1
Styrene	ND		5.0	ug/L		09/21/24 01:03		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 01:03		1
Toluene	ND		5.0	ug/L		09/21/24 01:03		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 01:03		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 01:03		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 01:03		1
Trichloroethene	ND		5.0	ug/L		09/21/24 01:03		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 01:03		1
Vinyl acetate	ND		10	ug/L		09/21/24 01:03		1
Vinyl chloride	ND *+		2.0	ug/L		09/21/24 01:03		1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	100			70 - 126			09/21/24 01:03	1
Dibromofluoromethane (Surr)	102			77 - 121			09/21/24 01:03	1
Toluene-d8 (Surr)	100			79 - 119			09/21/24 01:03	1

**Client Sample ID: GC-GWC-7D**

Date Collected: 09/16/24 14:00

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-8**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 06:10		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 06:10		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 06:10		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 06:10		1
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 06:10		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 06:10		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 06:10		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 06:10		1
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 06:10		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 06:10		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 06:10		1
1,2-Dichloropropane	ND		5.0	ug/L		09/21/24 06:10		1
<b>1,4-Dichlorobenzene</b>	<b>17</b>		5.0	ug/L		09/21/24 06:10		1
2-Butanone	ND		50	ug/L		09/21/24 06:10		1

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# Client Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

**Client Sample ID: GC-GWC-7D**

Date Collected: 09/16/24 14:00

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-8**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	ug/L		09/21/24 06:10		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 06:10		1
Acetone	ND		50	ug/L		09/21/24 06:10		1
Acrylonitrile	ND		5.0	ug/L		09/21/24 06:10		1
Benzene	ND		5.0	ug/L		09/21/24 06:10		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 06:10		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 06:10		1
Bromoform	ND		5.0	ug/L		09/21/24 06:10		1
Bromomethane	ND		5.0	ug/L		09/21/24 06:10		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 06:10		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 06:10		1
<b>Chlorobenzene</b>	<b>6.2</b>		5.0	ug/L		09/21/24 06:10		1
Chloroethane	ND		4.6	ug/L		09/21/24 06:10		1
Chloroform	ND		5.0	ug/L		09/21/24 06:10		1
Chloromethane	ND *+		10	ug/L		09/21/24 06:10		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 06:10		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 06:10		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 06:10		1
Dibromomethane	ND		5.0	ug/L		09/21/24 06:10		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 06:10		1
Iodomethane	ND		10	ug/L		09/21/24 06:10		1
m,p-Xylene	ND		10	ug/L		09/21/24 06:10		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 06:10		1
o-Xylene	ND		10	ug/L		09/21/24 06:10		1
Styrene	ND		5.0	ug/L		09/21/24 06:10		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 06:10		1
Toluene	ND		5.0	ug/L		09/21/24 06:10		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 06:10		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 06:10		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 06:10		1
Trichloroethene	ND		5.0	ug/L		09/21/24 06:10		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 06:10		1
Vinyl acetate	ND		10	ug/L		09/21/24 06:10		1
Vinyl chloride	ND *+		2.0	ug/L		09/21/24 06:10		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	99		70 - 126				09/21/24 06:10	1
Dibromofluoromethane (Surr)	99		77 - 121				09/21/24 06:10	1
Toluene-d8 (Surr)	102		79 - 119				09/21/24 06:10	1

**Client Sample ID: GC-DUPLICATE 1**

Date Collected: 09/16/24 00:00

Date Received: 09/16/24 15:35

**Lab Sample ID: 705-7410-9**

Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 06:34		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 06:34		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 06:34		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 06:34		1

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# Client Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## Client Sample ID: GC-DUPLICATE 1

Date Collected: 09/16/24 00:00

Date Received: 09/16/24 15:35

## Lab Sample ID: 705-7410-9

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 06:34		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 06:34		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 06:34		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 06:34		1
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 06:34		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 06:34		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 06:34		1
1,2-Dichloropropane	ND		5.0	ug/L		09/21/24 06:34		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 06:34		1
2-Butanone	ND		50	ug/L		09/21/24 06:34		1
2-Hexanone	ND		10	ug/L		09/21/24 06:34		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 06:34		1
Acetone	ND		50	ug/L		09/21/24 06:34		1
Acrylonitrile	ND		5.0	ug/L		09/21/24 06:34		1
Benzene	ND		5.0	ug/L		09/21/24 06:34		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 06:34		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 06:34		1
Bromoform	ND		5.0	ug/L		09/21/24 06:34		1
Bromomethane	ND		5.0	ug/L		09/21/24 06:34		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 06:34		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 06:34		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 06:34		1
Chloroethane	ND		4.6	ug/L		09/21/24 06:34		1
Chloroform	ND		5.0	ug/L		09/21/24 06:34		1
Chloromethane	ND *+		10	ug/L		09/21/24 06:34		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 06:34		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 06:34		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 06:34		1
Dibromomethane	ND		5.0	ug/L		09/21/24 06:34		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 06:34		1
Iodomethane	ND		10	ug/L		09/21/24 06:34		1
m,p-Xylene	ND		10	ug/L		09/21/24 06:34		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 06:34		1
o-Xylene	ND		10	ug/L		09/21/24 06:34		1
Styrene	ND		5.0	ug/L		09/21/24 06:34		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 06:34		1
Toluene	ND		5.0	ug/L		09/21/24 06:34		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 06:34		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 06:34		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 06:34		1
Trichloroethene	ND		5.0	ug/L		09/21/24 06:34		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 06:34		1
Vinyl acetate	ND		10	ug/L		09/21/24 06:34		1
Vinyl chloride	ND *+		2.0	ug/L		09/21/24 06:34		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 126		09/21/24 06:34	1
Dibromofluoromethane (Surr)	100		77 - 121		09/21/24 06:34	1
Toluene-d8 (Surr)	100		79 - 119		09/21/24 06:34	1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## Client Sample ID: GC-DUPLICATE 1

Date Collected: 09/16/24 00:00  
Date Received: 09/16/24 15:35

## Lab Sample ID: 705-7410-9

Matrix: Water

### Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/20/24 15:06	09/23/24 23:47	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/20/24 15:06	09/23/24 23:47	17.5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	132	S1+	74 - 131			09/20/24 15:06	09/23/24 23:47	17.5

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:50	1
Arsenic	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:50	1
<b>Barium</b>	<b>0.022</b>		0.020	mg/L		09/19/24 07:16	09/19/24 13:50	1
Beryllium	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:50	1
Cadmium	ND		0.00070	mg/L		09/19/24 07:16	09/19/24 13:50	1
Chromium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:50	1
Cobalt	ND		0.050	mg/L		09/19/24 07:16	09/19/24 13:50	1
Copper	ND		0.0020	mg/L		09/19/24 07:16	09/19/24 13:50	1
Lead	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:50	1
Nickel	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:50	1
Selenium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:50	1
Silver	ND		0.0010	mg/L		09/19/24 07:16	09/19/24 13:50	1
Thallium	ND		0.0020	mg/L		09/19/24 07:16	09/19/24 13:50	1
Vanadium	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:50	1
Zinc	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:50	1

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/19/24 13:58	09/19/24 20:40	1

## Client Sample ID: GC-EQUIPMENT BLANK

Date Collected: 09/16/24 12:00  
Date Received: 09/16/24 15:35

## Lab Sample ID: 705-7410-10

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 03:01		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 03:01		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 03:01		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 03:01		1
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 03:01		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 03:01		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 03:01		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 03:01		1
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 03:01		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 03:01		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 03:01		1
1,2-Dichloropropane	ND		5.0	ug/L		09/21/24 03:01		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 03:01		1
2-Butanone	ND		50	ug/L		09/21/24 03:01		1
2-Hexanone	ND		10	ug/L		09/21/24 03:01		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 03:01		1
Acetone	ND		50	ug/L		09/21/24 03:01		1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

**Client Sample ID: GC-EQUIPMENT BLANK**

**Lab Sample ID: 705-7410-10**

**Matrix: Water**

Date Collected: 09/16/24 12:00

Date Received: 09/16/24 15:35

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0	ug/L		09/21/24 03:01		1
Benzene	ND		5.0	ug/L		09/21/24 03:01		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 03:01		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 03:01		1
Bromoform	ND		5.0	ug/L		09/21/24 03:01		1
Bromomethane	ND		5.0	ug/L		09/21/24 03:01		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 03:01		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 03:01		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 03:01		1
Chloroethane	ND		4.6	ug/L		09/21/24 03:01		1
Chloroform	ND		5.0	ug/L		09/21/24 03:01		1
Chloromethane	ND *+		10	ug/L		09/21/24 03:01		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 03:01		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 03:01		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 03:01		1
Dibromomethane	ND		5.0	ug/L		09/21/24 03:01		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 03:01		1
Iodomethane	ND		10	ug/L		09/21/24 03:01		1
m,p-Xylene	ND		10	ug/L		09/21/24 03:01		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 03:01		1
o-Xylene	ND		10	ug/L		09/21/24 03:01		1
Styrene	ND		5.0	ug/L		09/21/24 03:01		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 03:01		1
Toluene	ND		5.0	ug/L		09/21/24 03:01		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 03:01		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 03:01		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 03:01		1
Trichloroethene	ND		5.0	ug/L		09/21/24 03:01		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 03:01		1
Vinyl acetate	ND		10	ug/L		09/21/24 03:01		1
Vinyl chloride	ND *+		2.0	ug/L		09/21/24 03:01		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 126		09/21/24 03:01	1
Dibromofluoromethane (Surr)	101		77 - 121		09/21/24 03:01	1
Toluene-d8 (Surr)	101		79 - 119		09/21/24 03:01	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/20/24 15:06	09/24/24 00:04	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/20/24 15:06	09/24/24 00:04	17.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	118		74 - 131		09/20/24 15:06	09/24/24 00:04	17.5

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/19/24 07:16	09/19/24 13:53	1
Arsenic	ND		0.010	mg/L		09/19/24 07:16	09/19/24 13:53	1
Barium	ND		0.020	mg/L		09/19/24 07:16	09/19/24 13:53	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

**Client Sample ID: GC-EQUIPMENT BLANK**

**Lab Sample ID: 705-7410-10**

Matrix: Water

Date Collected: 09/16/24 12:00

Date Received: 09/16/24 15:35

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:53		1
Cadmium	ND		0.00070	mg/L	09/19/24 07:16	09/19/24 13:53		1
Chromium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:53		1
Cobalt	ND		0.050	mg/L	09/19/24 07:16	09/19/24 13:53		1
Copper	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:53		1
Lead	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:53		1
Nickel	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:53		1
Selenium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:53		1
Silver	ND		0.0010	mg/L	09/19/24 07:16	09/19/24 13:53		1
Thallium	ND		0.0020	mg/L	09/19/24 07:16	09/19/24 13:53		1
Vanadium	ND		0.0050	mg/L	09/19/24 07:16	09/19/24 13:53		1
Zinc	ND		0.010	mg/L	09/19/24 07:16	09/19/24 13:53		1

## Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/19/24 13:58	09/19/24 20:44		1

**Client Sample ID: GC-FIELD BLANK**

**Lab Sample ID: 705-7410-11**

Matrix: Water

Date Collected: 09/16/24 11:55

Date Received: 09/16/24 15:35

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 03:25		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 03:25		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 03:25		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 03:25		1
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 03:25		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 03:25		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 03:25		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 03:25		1
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 03:25		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 03:25		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 03:25		1
1,2-Dichloropropane	ND		5.0	ug/L		09/21/24 03:25		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 03:25		1
2-Butanone	ND		50	ug/L		09/21/24 03:25		1
2-Hexanone	ND		10	ug/L		09/21/24 03:25		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 03:25		1
Acetone	ND		50	ug/L		09/21/24 03:25		1
Acrylonitrile	ND		5.0	ug/L		09/21/24 03:25		1
Benzene	ND		5.0	ug/L		09/21/24 03:25		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 03:25		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 03:25		1
Bromoform	ND		5.0	ug/L		09/21/24 03:25		1
Bromomethane	ND		5.0	ug/L		09/21/24 03:25		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 03:25		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 03:25		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 03:25		1
Chloroethane	ND		4.6	ug/L		09/21/24 03:25		1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Client Sample ID: GC-FIELD BLANK

Date Collected: 09/16/24 11:55

Date Received: 09/16/24 15:35

## Lab Sample ID: 705-7410-11

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		5.0	ug/L		09/21/24 03:25		1
Chloromethane	ND	*+	10	ug/L		09/21/24 03:25		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 03:25		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 03:25		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 03:25		1
Dibromomethane	ND		5.0	ug/L		09/21/24 03:25		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 03:25		1
Iodomethane	ND		10	ug/L		09/21/24 03:25		1
m,p-Xylene	ND		10	ug/L		09/21/24 03:25		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 03:25		1
o-Xylene	ND		10	ug/L		09/21/24 03:25		1
Styrene	ND		5.0	ug/L		09/21/24 03:25		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 03:25		1
Toluene	ND		5.0	ug/L		09/21/24 03:25		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 03:25		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 03:25		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 03:25		1
Trichloroethene	ND		5.0	ug/L		09/21/24 03:25		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 03:25		1
Vinyl acetate	ND		10	ug/L		09/21/24 03:25		1
Vinyl chloride	ND	*+	2.0	ug/L		09/21/24 03:25		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	96		70 - 126			09/21/24 03:25		1
Dibromofluoromethane (Surr)	100		77 - 121			09/21/24 03:25		1
Toluene-d8 (Surr)	102		79 - 119			09/21/24 03:25		1

### Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/20/24 15:06	09/24/24 00:22	17.5
1,2-Dibromo-3-Chloropropane	ND		0.039	ug/L		09/20/24 15:06	09/24/24 00:22	17.5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	122		74 - 131			09/20/24 15:06	09/24/24 00:22	17.5

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/19/24 07:16	09/24/24 14:51	1
Arsenic	ND		0.010	mg/L		09/19/24 07:16	09/24/24 14:51	1
Barium	ND		0.020	mg/L		09/19/24 07:16	09/24/24 14:51	1
Beryllium	ND		0.0010	mg/L		09/19/24 07:16	09/24/24 14:51	1
Cadmium	ND		0.00070	mg/L		09/19/24 07:16	09/24/24 14:51	1
Chromium	ND		0.0050	mg/L		09/19/24 07:16	09/24/24 14:51	1
Cobalt	ND		0.050	mg/L		09/19/24 07:16	09/24/24 14:51	1
Copper	ND		0.0020	mg/L		09/19/24 07:16	09/24/24 14:51	1
Lead	ND		0.0010	mg/L		09/19/24 07:16	09/24/24 14:51	1
Nickel	ND		0.0050	mg/L		09/19/24 07:16	09/24/24 14:51	1
Selenium	ND		0.0050	mg/L		09/19/24 07:16	09/24/24 14:51	1
Silver	ND		0.0010	mg/L		09/19/24 07:16	09/24/24 14:51	1
Thallium	ND		0.0020	mg/L		09/19/24 07:16	09/24/24 14:51	1

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# Client Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

**Client Sample ID: GC-FIELD BLANK**

**Lab Sample ID: 705-7410-11**

Matrix: Water

Date Collected: 09/16/24 11:55

Date Received: 09/16/24 15:35

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.0050	mg/L		09/19/24 07:16	09/24/24 14:51	1
Zinc	ND		0.010	mg/L		09/19/24 07:16	09/24/24 14:51	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/19/24 13:58	09/19/24 20:48	1

# Detection Summary

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## **Client Sample ID: GC-GWA-3R**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0026		0.0020	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWA-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.020	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWC-6**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.020	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWC-7**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	17		5.0	ug/L	1		8260D	Total/NA
Chlorobenzene	5.6		5.0	ug/L	1		8260D	Total/NA
Barium	0.19		0.020	mg/L	1		6020B	Total Recoverable
Cobalt	0.060		0.050	mg/L	1		6020B	Total Recoverable
Nickel	0.0055		0.0050	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWC-9**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	6.7		5.0	ug/L	1		8260D	Total/NA
Chlorobenzene	5.4		5.0	ug/L	1		8260D	Total/NA
Barium	0.14		0.020	mg/L	1		6020B	Total Recoverable
Nickel	0.0076		0.0050	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: GC-GWC-10**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.17		0.020	mg/L	1		6020B	Total Recoverable

## **Client Sample ID: TRIP BLANK**

No Detections.							
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## **Client Sample ID: GC-GWC-7D**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	17		5.0	ug/L	1		8260D	Total/NA
Chlorobenzene	6.2		5.0	ug/L	1		8260D	Total/NA

## **Client Sample ID: GC-DUPLICATE 1**

Lab Sample ID: 705-7410-9								
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.020	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

## Detection Summary

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

**Client Sample ID: GC-EQUIPMENT BLANK**

**Lab Sample ID: 705-7410-10**

No Detections.

**Client Sample ID: GC-FIELD BLANK**

**Lab Sample ID: 705-7410-11**

No Detections.

1

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15

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

## Login Sample Receipt Checklist

Client: Oasis Consulting Services

Job Number: 705-7410-1

**Login Number:** 7410

**List Source:** Eurofins Atlanta

**List Number:** 1

**Creator:** Neal, Anna

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Surrogate Summary

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-126)	DBFM (77-121)	TOL (79-119)
705-7302-B-16 MS ^10	Matrix Spike	102	98	103
705-7302-B-16 MSD ^10	Matrix Spike Duplicate	100	97	101
705-7385-B-6 MS ^10	Matrix Spike	102	102	104
705-7385-B-6 MSD ^10	Matrix Spike Duplicate	104	104	103
705-7410-1	GC-GWA-3R	96	98	100
705-7410-2	GC-GWA-1	96	97	98
705-7410-3	GC-GWC-6	95	97	99
705-7410-4	GC-GWC-7	98	99	100
705-7410-5	GC-GWC-9	97	100	100
705-7410-6	GC-GWC-10	96	97	98
705-7410-7	TRIP BLANK	100	102	100
705-7410-8	GC-GWC-7D	99	99	102
705-7410-9	GC-DUPLICATE 1	95	100	100
705-7410-10	GC-EQUIPMENT BLANK	100	101	101
705-7410-11	GC-FIELD BLANK	96	100	102
LCS 705-12970/2	Lab Control Sample	103	99	101
LCS 705-13080/2	Lab Control Sample	105	100	104
MB 705-12970/4	Method Blank	93	100	103
MB 705-13080/3	Method Blank	95	101	99

### Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (74-131)		
705-7410-1	GC-GWA-3R	123		
705-7410-1 MS	GC-GWA-3R	128		
705-7410-2	GC-GWA-1	135 S1+		
705-7410-2 DU	GC-GWA-1	152 S1+		
705-7410-3	GC-GWC-6	122		
705-7410-4	GC-GWC-7	127		
705-7410-5	GC-GWC-9	122		
705-7410-6	GC-GWC-10	119		
705-7410-9	GC-DUPLICATE 1	132 S1+		
705-7410-10	GC-EQUIPMENT BLANK	118		
705-7410-11	GC-FIELD BLANK	122		
HLCS 705-12949/4-A	Lab Control Sample	110		
LCS 705-12949/2-A	Lab Control Sample	113		
LCSD 705-12949/3-A	Lab Control Sample Dup	111		
MB 705-12949/1-A	Method Blank	110		

### Surrogate Legend

BFB = 4-Bromofluorobenzene

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# Lab Chronicle

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## **Client Sample ID: GC-GWA-3R**

Date Collected: 09/16/24 11:45

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12970	AV	EET ATL	09/20/24 19:10
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/23/24 11:04
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:36
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 19:57

## **Client Sample ID: GC-GWA-1**

Date Collected: 09/16/24 11:30

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12970	AV	EET ATL	09/20/24 19:33
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/23/24 12:08
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:39
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:09

## **Client Sample ID: GC-GWC-6**

Date Collected: 09/16/24 10:00

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12970	AV	EET ATL	09/20/24 19:56
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/23/24 22:05
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:41
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:13

## **Client Sample ID: GC-GWC-7**

Date Collected: 09/16/24 12:25

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12970	AV	EET ATL	09/20/24 20:20
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/23/24 22:23
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:43

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# Lab Chronicle

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## **Client Sample ID: GC-GWC-7**

Date Collected: 09/16/24 12:25

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:16

## **Client Sample ID: GC-GWC-9**

Date Collected: 09/16/24 11:15

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	12970	AV	EET ATL	09/20/24 20:44
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/23/24 22:40
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:46
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:32

## **Client Sample ID: GC-GWC-10**

Date Collected: 09/16/24 12:50

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-6**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 05:46
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/23/24 22:57
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:48
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:36

## **Client Sample ID: TRIP BLANK**

Date Collected: 09/16/24 07:00

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 01:03

## **Client Sample ID: GC-GWC-7D**

Date Collected: 09/16/24 14:00

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-8**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 06:10

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# Lab Chronicle

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## **Client Sample ID: GC-DUPLICATE 1**

Date Collected: 09/16/24 00:00

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-9**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 06:34
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/23/24 23:47
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:50
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:40

## **Client Sample ID: GC-EQUIPMENT BLANK**

Date Collected: 09/16/24 12:00

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-10**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 03:01
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/24/24 00:04
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	12766	AD	EET ATL	09/19/24 13:53
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:44

## **Client Sample ID: GC-FIELD BLANK**

Date Collected: 09/16/24 11:55

Date Received: 09/16/24 15:35

## **Lab Sample ID: 705-7410-11**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 03:25
Total/NA	Prep	8011			12949	SH	EET ATL	09/20/24 15:06
Total/NA	Analysis	8011		17.5	13318	UH	EET ATL	09/24/24 00:22
Total Recoverable	Prep	3005A			12365	SA	EET ATL	09/19/24 07:16
Total Recoverable	Analysis	6020B		1	13407	AD	EET ATL	09/24/24 14:51
Total/NA	Prep	7470A			12727	TA	EET ATL	09/19/24 13:58
Total/NA	Analysis	7470A		1	12887	TA	EET ATL	09/19/24 20:48

### Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

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# QC Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 705-12970/4**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 10:58		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/20/24 10:58		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 10:58		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/20/24 10:58		1
1,1-Dichloroethane	ND		5.0	ug/L		09/20/24 10:58		1
1,1-Dichloroethene	ND		5.0	ug/L		09/20/24 10:58		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/20/24 10:58		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/20/24 10:58		1
1,2-Dibromoethane	ND		5.0	ug/L		09/20/24 10:58		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/20/24 10:58		1
1,2-Dichloroethane	ND		5.0	ug/L		09/20/24 10:58		1
1,2-Dichloropropane	ND		5.0	ug/L		09/20/24 10:58		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/20/24 10:58		1
2-Butanone	ND		50	ug/L		09/20/24 10:58		1
2-Hexanone	ND		10	ug/L		09/20/24 10:58		1
4-Methyl-2-pentanone	ND		10	ug/L		09/20/24 10:58		1
Acetone	ND		50	ug/L		09/20/24 10:58		1
Acrylonitrile	ND		5.0	ug/L		09/20/24 10:58		1
Benzene	ND		5.0	ug/L		09/20/24 10:58		1
Bromochloromethane	ND		5.0	ug/L		09/20/24 10:58		1
Bromodichloromethane	ND		5.0	ug/L		09/20/24 10:58		1
Bromoform	ND		5.0	ug/L		09/20/24 10:58		1
Bromomethane	ND		5.0	ug/L		09/20/24 10:58		1
Carbon disulfide	ND		5.0	ug/L		09/20/24 10:58		1
Carbon tetrachloride	ND		5.0	ug/L		09/20/24 10:58		1
Chlorobenzene	ND		5.0	ug/L		09/20/24 10:58		1
Chloroethane	ND		4.6	ug/L		09/20/24 10:58		1
Chloroform	ND		5.0	ug/L		09/20/24 10:58		1
Chloromethane	ND		10	ug/L		09/20/24 10:58		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 10:58		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 10:58		1
Dibromochloromethane	ND		5.0	ug/L		09/20/24 10:58		1
Dibromomethane	ND		5.0	ug/L		09/20/24 10:58		1
Ethylbenzene	ND		5.0	ug/L		09/20/24 10:58		1
Iodomethane	ND		10	ug/L		09/20/24 10:58		1
m,p-Xylene	ND		10	ug/L		09/20/24 10:58		1
Methylene Chloride	ND		5.0	ug/L		09/20/24 10:58		1
o-Xylene	ND		10	ug/L		09/20/24 10:58		1
Styrene	ND		5.0	ug/L		09/20/24 10:58		1
Tetrachloroethene	ND		5.0	ug/L		09/20/24 10:58		1
Toluene	ND		5.0	ug/L		09/20/24 10:58		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 10:58		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 10:58		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/20/24 10:58		1
Trichloroethene	ND		5.0	ug/L		09/20/24 10:58		1
Trichlorofluoromethane	ND		5.0	ug/L		09/20/24 10:58		1
Vinyl acetate	ND		10	ug/L		09/20/24 10:58		1
Vinyl chloride	ND		2.0	ug/L		09/20/24 10:58		1

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 705-12970/4**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene		93			70 - 126		09/20/24 10:58	1
Dibromofluoromethane (Surr)		100			77 - 121		09/20/24 10:58	1
Toluene-d8 (Surr)		103			79 - 119		09/20/24 10:58	1

**Lab Sample ID: LCS 705-12970/2**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LC S	LC S	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier				Limits	
1,1,1,2-Tetrachloroethane	20.0	18.1		ug/L		90	76 - 130	
1,1,1-Trichloroethane	20.0	17.7		ug/L		89	71 - 124	
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	73 - 127	
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	69 - 127	
1,1-Dichloroethane	20.0	19.8		ug/L		99	65 - 126	
1,1-Dichloroethene	20.0	17.6		ug/L		88	69 - 130	
1,2,3-Trichloropropane	20.0	18.9		ug/L		95	70 - 127	
1,2-Dibromo-3-Chloropropane	20.0	18.9		ug/L		95	64 - 125	
1,2-Dibromoethane	20.0	19.3		ug/L		97	68 - 133	
1,2-Dichlorobenzene	20.0	18.2		ug/L		91	69 - 127	
1,2-Dichloroethane	20.0	20.0		ug/L		100	72 - 127	
1,2-Dichloropropane	20.0	19.9		ug/L		100	71 - 121	
1,4-Dichlorobenzene	20.0	17.2		ug/L		86	68 - 126	
2-Butanone	40.0	45.3 J		ug/L		113	74 - 131	
2-Hexanone	40.0	44.4		ug/L		111	70 - 130	
4-Methyl-2-pentanone	40.0	45.4		ug/L		113	76 - 122	
Acetone	40.0	44.0 J		ug/L		110	62 - 136	
Acrylonitrile	20.0	23.2		ug/L		116	62 - 141	
Benzene	20.0	18.0		ug/L		90	76 - 122	
Bromochloromethane	20.0	19.1		ug/L		96	76 - 120	
Bromodichloromethane	20.0	18.4		ug/L		92	70 - 124	
Bromoform	20.0	16.5		ug/L		82	65 - 129	
Bromomethane	20.0	21.9		ug/L		110	60 - 138	
Carbon disulfide	40.0	36.0		ug/L		90	71 - 122	
Carbon tetrachloride	20.0	16.9		ug/L		84	72 - 133	
Chlorobenzene	20.0	17.6		ug/L		88	75 - 121	
Chloroethane	20.0	22.4		ug/L		112	55 - 138	
Chloroform	20.0	18.4		ug/L		92	72 - 121	
Chloromethane	20.0	24.4		ug/L		122	57 - 129	
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	76 - 121	
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 129	
Dibromochloromethane	20.0	17.7		ug/L		89	70 - 131	
Dibromomethane	20.0	19.8		ug/L		99	70 - 131	
Ethylbenzene	20.0	18.3		ug/L		92	75 - 127	
Iodomethane	40.0	35.6		ug/L		89	50 - 150	
m,p-Xylene	40.0	37.3		ug/L		93	76 - 128	
Methylene Chloride	20.0	19.5		ug/L		97	68 - 131	
o-Xylene	20.0	19.1		ug/L		96	78 - 124	
Styrene	20.0	19.3		ug/L		96	71 - 129	

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 705-12970/2**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Tetrachloroethene	20.0	17.5		ug/L	88	74 - 129	
Toluene	20.0	18.7		ug/L	93	74 - 124	
trans-1,2-Dichloroethene	20.0	17.9		ug/L	89	74 - 124	
trans-1,3-Dichloropropene	20.0	19.2		ug/L	96	59 - 135	
trans-1,4-Dichloro-2-butene	40.0	32.2		ug/L	80	50 - 150	
Trichloroethene	20.0	17.5		ug/L	87	72 - 129	
Trichlorofluoromethane	20.0	20.8		ug/L	104	63 - 142	
Vinyl acetate	40.0	46.4		ug/L	116	50 - 150	
Vinyl chloride	20.0	21.9		ug/L	109	65 - 132	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		70 - 126
Dibromofluoromethane (Surr)	99		77 - 121
Toluene-d8 (Surr)	101		79 - 119

**Lab Sample ID: 705-7385-B-6 MS ^10**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	ND		200	210		ug/L	105	69 - 133	
1,1,1-Trichloroethane	ND		200	230		ug/L	115	69 - 135	
1,1,2,2-Tetrachloroethane	ND		200	221		ug/L	111	68 - 132	
1,1,2-Trichloroethane	ND		200	220		ug/L	110	71 - 133	
1,1-Dichloroethane	ND		200	240		ug/L	120	70 - 133	
1,1-Dichloroethene	ND		200	228		ug/L	114	69 - 139	
1,2,3-Trichloropropane	ND		200	204		ug/L	102	66 - 132	
1,2-Dibromo-3-Chloropropane	ND		200	210		ug/L	105	62 - 127	
1,2-Dibromoethane	ND		200	205		ug/L	103	76 - 129	
1,2-Dichlorobenzene	ND		200	226		ug/L	113	76 - 125	
1,2-Dichloroethane	ND		200	227		ug/L	113	70 - 133	
1,2-Dichloropropane	ND		200	253		ug/L	127	69 - 132	
1,4-Dichlorobenzene	ND		200	213		ug/L	107	76 - 124	
2-Butanone	ND		400	ND		ug/L	123	50 - 150	
2-Hexanone	ND		400	483		ug/L	121	50 - 150	
4-Methyl-2-pentanone	ND		400	488		ug/L	122	50 - 150	
Acetone	ND		400	ND		ug/L	119	50 - 150	
Acrylonitrile	ND		200	249		ug/L	125	50 - 150	
Benzene	ND		200	233		ug/L	116	71 - 133	
Bromochloromethane	ND		200	229		ug/L	114	70 - 133	
Bromodichloromethane	ND		200	219		ug/L	110	68 - 133	
Bromoform	ND		200	180		ug/L	90	58 - 130	
Bromomethane	ND		200	268		ug/L	134	50 - 150	
Carbon disulfide	ND		400	487		ug/L	122	50 - 150	
Carbon tetrachloride	ND		200	223		ug/L	112	70 - 139	
Chlorobenzene	ND		200	214		ug/L	107	78 - 128	
Chloroethane	ND		200	286		ug/L	143	50 - 150	
Chloroform	ND		200	230		ug/L	113	68 - 132	

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 705-7385-B-6 MS ^10**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloromethane	ND	F1	200	311	F1	ug/L	156	50 - 150	
cis-1,2-Dichloroethene	420		200	645		ug/L	111	72 - 133	
cis-1,3-Dichloropropene	ND		200	218		ug/L	109	70 - 128	
Dibromochloromethane	ND		200	198		ug/L	99	68 - 130	
Dibromomethane	ND		200	223		ug/L	111	72 - 130	
Ethylbenzene	ND		200	222		ug/L	111	75 - 131	
Iodomethane	ND		400	439		ug/L	110	50 - 150	
m,p-Xylene	ND		400	463		ug/L	116	73 - 133	
Methylene Chloride	ND		200	231		ug/L	116	66 - 132	
o-Xylene	ND		200	223		ug/L	111	73 - 132	
Styrene	ND		200	230		ug/L	115	73 - 133	
Tetrachloroethene	680		200	906		ug/L	114	74 - 135	
Toluene	ND		200	234		ug/L	117	72 - 134	
trans-1,2-Dichloroethene	ND		200	224		ug/L	110	71 - 132	
trans-1,3-Dichloropropene	ND		200	212		ug/L	106	60 - 125	
trans-1,4-Dichloro-2-butene	ND		400	362		ug/L	91	50 - 150	
Trichloroethene	210		200	426		ug/L	109	77 - 136	
Trichlorofluoromethane	ND F1		200	268	F1	ug/L	134	69 - 133	
Vinyl acetate	ND		400	500		ug/L	125	50 - 150	
Vinyl chloride	ND F1		200	291	F1	ug/L	145	66 - 138	
<b>Surrogate</b>	<b>MS %Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene	102		70 - 126						
Dibromofluoromethane (Surr)	102		77 - 121						
Toluene-d8 (Surr)	104		79 - 119						

**Lab Sample ID: 705-7385-B-6 MSD ^10**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	ND		200	208		ug/L	104	69 - 133		1	18
1,1,1-Trichloroethane	ND		200	225		ug/L	113	69 - 135		2	20
1,1,2,2-Tetrachloroethane	ND		200	226		ug/L	113	68 - 132		2	19
1,1,2-Trichloroethane	ND		200	230		ug/L	115	71 - 133		5	20
1,1-Dichloroethane	ND		200	236		ug/L	118	70 - 133		2	22
1,1-Dichloroethene	ND		200	230		ug/L	115	69 - 139		1	56
1,2,3-Trichloropropane	ND		200	202		ug/L	101	66 - 132		1	39
1,2-Dibromo-3-Chloropropane	ND		200	226		ug/L	113	62 - 127		7	20
1,2-Dibromoethane	ND		200	212		ug/L	106	76 - 129		3	20
1,2-Dichlorobenzene	ND		200	202		ug/L	101	76 - 125		11	20
1,2-Dichloroethane	ND		200	225		ug/L	113	70 - 133		1	41
1,2-Dichloropropane	ND		200	243		ug/L	121	69 - 132		4	20
1,4-Dichlorobenzene	ND		200	204		ug/L	102	76 - 124		4	20
2-Butanone	ND		400	511		ug/L	128	50 - 150		4	20
2-Hexanone	ND		400	478		ug/L	120	50 - 150		1	50
4-Methyl-2-pentanone	ND		400	482		ug/L	120	50 - 150		1	50
Acetone	ND		400	ND		ug/L	125	50 - 150		5	50

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 705-7385-B-6 MSD ^10**

**Matrix: Water**

**Analysis Batch: 12970**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Acrylonitrile	ND		200	229		ug/L	115	50 - 150	8	100	
Benzene	ND		200	224		ug/L	112	71 - 133	4	42	
Bromochloromethane	ND		200	208		ug/L	104	70 - 133	9	20	
Bromodichloromethane	ND		200	216		ug/L	108	68 - 133	1	20	
Bromoform	ND		200	187		ug/L	93	58 - 130	3	20	
Bromomethane	ND		200	263		ug/L	132	50 - 150	2	100	
Carbon disulfide	ND		400	479		ug/L	120	50 - 150	2	50	
Carbon tetrachloride	ND		200	219		ug/L	109	70 - 139	2	22	
Chlorobenzene	ND		200	211		ug/L	106	78 - 128	1	50	
Chloroethane	ND		200	288		ug/L	144	50 - 150	1	100	
Chloroform	ND		200	224		ug/L	110	68 - 132	3	20	
Chloromethane	ND F1		200	304	F1	ug/L	152	50 - 150	2	100	
cis-1,2-Dichloroethene	420		200	631		ug/L	104	72 - 133	2	14	
cis-1,3-Dichloropropene	ND		200	225		ug/L	113	70 - 128	3	14	
Dibromochloromethane	ND		200	199		ug/L	99	68 - 130	0	20	
Dibromomethane	ND		200	230		ug/L	115	72 - 130	3	20	
Ethylbenzene	ND		200	223		ug/L	111	75 - 131	0	28	
Iodomethane	ND		400	433		ug/L	108	50 - 150	1	50	
m,p-Xylene	ND		400	446		ug/L	111	73 - 133	4	28	
Methylene Chloride	ND		200	226		ug/L	113	66 - 132	2	20	
o-Xylene	ND		200	223		ug/L	111	73 - 132	0	28	
Styrene	ND		200	226		ug/L	113	73 - 133	2	20	
Tetrachloroethene	680		200	889		ug/L	105	74 - 135	2	20	
Toluene	ND		200	220		ug/L	110	72 - 134	6	42	
trans-1,2-Dichloroethene	ND		200	222		ug/L	109	71 - 132	1	20	
trans-1,3-Dichloropropene	ND		200	203		ug/L	101	60 - 125	5	20	
trans-1,4-Dichloro-2-butene	ND		400	328		ug/L	82	50 - 150	10	50	
Trichloroethene	210		200	417		ug/L	105	77 - 136	2	51	
Trichlorofluoromethane	ND F1		200	260		ug/L	130	69 - 133	3	23	
Vinyl acetate	ND		400	497		ug/L	124	50 - 150	1	50	
Vinyl chloride	ND F1		200	273		ug/L	136	66 - 138	6	23	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	104		70 - 126
Dibromofluoromethane (Surr)	104		77 - 121
Toluene-d8 (Surr)	103		79 - 119

**Lab Sample ID: MB 705-13080/3**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			09/20/24 23:52	1
1,1,1-Trichloroethane	ND		5.0	ug/L			09/20/24 23:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			09/20/24 23:52	1
1,1,2-Trichloroethane	ND		5.0	ug/L			09/20/24 23:52	1
1,1-Dichloroethane	ND		5.0	ug/L			09/20/24 23:52	1
1,1-Dichloroethene	ND		5.0	ug/L			09/20/24 23:52	1

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# QC Sample Results

Client: Oasis Consulting Services

Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 705-13080/3**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
1,2,3-Trichloropropane	ND			5.0		ug/L		09/20/24 23:52		1
1,2-Dibromo-3-Chloropropane	ND			5.0		ug/L		09/20/24 23:52		1
1,2-Dibromoethane	ND			5.0		ug/L		09/20/24 23:52		1
1,2-Dichlorobenzene	ND			5.0		ug/L		09/20/24 23:52		1
1,2-Dichloroethane	ND			5.0		ug/L		09/20/24 23:52		1
1,2-Dichloropropane	ND			5.0		ug/L		09/20/24 23:52		1
1,4-Dichlorobenzene	ND			5.0		ug/L		09/20/24 23:52		1
2-Butanone	ND			50		ug/L		09/20/24 23:52		1
2-Hexanone	ND			10		ug/L		09/20/24 23:52		1
4-Methyl-2-pentanone	ND			10		ug/L		09/20/24 23:52		1
Acetone	ND			50		ug/L		09/20/24 23:52		1
Acrylonitrile	ND			5.0		ug/L		09/20/24 23:52		1
Benzene	ND			5.0		ug/L		09/20/24 23:52		1
Bromochloromethane	ND			5.0		ug/L		09/20/24 23:52		1
Bromodichloromethane	ND			5.0		ug/L		09/20/24 23:52		1
Bromoform	ND			5.0		ug/L		09/20/24 23:52		1
Bromomethane	ND			5.0		ug/L		09/20/24 23:52		1
Carbon disulfide	ND			5.0		ug/L		09/20/24 23:52		1
Carbon tetrachloride	ND			5.0		ug/L		09/20/24 23:52		1
Chlorobenzene	ND			5.0		ug/L		09/20/24 23:52		1
Chloroethane	ND			4.6		ug/L		09/20/24 23:52		1
Chloroform	ND			5.0		ug/L		09/20/24 23:52		1
Chloromethane	ND			10		ug/L		09/20/24 23:52		1
cis-1,2-Dichloroethene	ND			5.0		ug/L		09/20/24 23:52		1
cis-1,3-Dichloropropene	ND			5.0		ug/L		09/20/24 23:52		1
Dibromochloromethane	ND			5.0		ug/L		09/20/24 23:52		1
Dibromomethane	ND			5.0		ug/L		09/20/24 23:52		1
Ethylbenzene	ND			5.0		ug/L		09/20/24 23:52		1
Iodomethane	ND			10		ug/L		09/20/24 23:52		1
m,p-Xylene	ND			10		ug/L		09/20/24 23:52		1
Methylene Chloride	ND			5.0		ug/L		09/20/24 23:52		1
o-Xylene	ND			10		ug/L		09/20/24 23:52		1
Styrene	ND			5.0		ug/L		09/20/24 23:52		1
Tetrachloroethene	ND			5.0		ug/L		09/20/24 23:52		1
Toluene	ND			5.0		ug/L		09/20/24 23:52		1
trans-1,2-Dichloroethene	ND			5.0		ug/L		09/20/24 23:52		1
trans-1,3-Dichloropropene	ND			5.0		ug/L		09/20/24 23:52		1
trans-1,4-Dichloro-2-butene	ND			10		ug/L		09/20/24 23:52		1
Trichloroethene	ND			5.0		ug/L		09/20/24 23:52		1
Trichlorofluoromethane	ND			5.0		ug/L		09/20/24 23:52		1
Vinyl acetate	ND			10		ug/L		09/20/24 23:52		1
Vinyl chloride	ND			2.0		ug/L		09/20/24 23:52		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4-Bromofluorobenzene	95		95		70 - 126		09/20/24 23:52	1
Dibromofluoromethane (Surr)	101		101		77 - 121		09/20/24 23:52	1
Toluene-d8 (Surr)	99		99		79 - 119		09/20/24 23:52	1

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 705-13080/2**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 13080**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.1		ug/L		95	76 - 130
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	71 - 124
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	73 - 127
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	69 - 127
1,1-Dichloroethane	20.0	22.6		ug/L		113	65 - 126
1,1-Dichloroethene	20.0	20.8		ug/L		104	69 - 130
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	70 - 127
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	64 - 125
1,2-Dibromoethane	20.0	20.6		ug/L		103	68 - 133
1,2-Dichlorobenzene	20.0	20.3		ug/L		102	69 - 127
1,2-Dichloroethane	20.0	20.2		ug/L		101	72 - 127
1,2-Dichloropropane	20.0	23.0		ug/L		115	71 - 121
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	68 - 126
2-Butanone	40.0	43.1	J	ug/L		108	74 - 131
2-Hexanone	40.0	48.3		ug/L		121	70 - 130
4-Methyl-2-pentanone	40.0	47.1		ug/L		118	76 - 122
Acetone	40.0	49.8	J	ug/L		125	62 - 136
Acrylonitrile	20.0	22.7		ug/L		113	62 - 141
Benzene	20.0	21.2		ug/L		106	76 - 122
Bromochloromethane	20.0	21.9		ug/L		110	76 - 120
Bromodichloromethane	20.0	19.6		ug/L		98	70 - 124
Bromoform	20.0	17.1		ug/L		86	65 - 129
Bromomethane	20.0	23.7		ug/L		119	60 - 138
Carbon disulfide	40.0	44.3		ug/L		111	71 - 122
Carbon tetrachloride	20.0	18.8		ug/L		94	72 - 133
Chlorobenzene	20.0	20.1		ug/L		100	75 - 121
Chloroethane	20.0	27.2		ug/L		136	55 - 138
Chloroform	20.0	20.7		ug/L		103	72 - 121
Chloromethane	20.0	29.1	+	ug/L		146	57 - 129
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	76 - 121
cis-1,3-Dichloropropene	20.0	20.9		ug/L		104	70 - 129
Dibromochloromethane	20.0	18.9		ug/L		95	70 - 131
Dibromomethane	20.0	20.9		ug/L		104	70 - 131
Ethylbenzene	20.0	21.5		ug/L		108	75 - 127
Iodomethane	40.0	41.0		ug/L		102	50 - 150
m,p-Xylene	40.0	42.2		ug/L		105	76 - 128
Methylene Chloride	20.0	21.5		ug/L		108	68 - 131
o-Xylene	20.0	21.1		ug/L		105	78 - 124
Styrene	20.0	21.0		ug/L		105	71 - 129
Tetrachloroethene	20.0	20.3		ug/L		101	74 - 129
Toluene	20.0	21.1		ug/L		105	74 - 124
trans-1,2-Dichloroethene	20.0	20.7		ug/L		104	74 - 124
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	59 - 135
trans-1,4-Dichloro-2-butene	40.0	33.1		ug/L		83	50 - 150
Trichloroethene	20.0	19.5		ug/L		98	72 - 129
Trichlorofluoromethane	20.0	23.8		ug/L		119	63 - 142
Vinyl acetate	40.0	49.1		ug/L		123	50 - 150
Vinyl chloride	20.0	27.0	+	ug/L		135	65 - 132

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 705-13080/2**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	105		70 - 126
Dibromofluoromethane (Surr)	100		77 - 121
Toluene-d8 (Surr)	104		79 - 119

**Lab Sample ID: 705-7302-B-16 MS ^10**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		200	217		ug/L	109	69 - 133	
1,1,1-Trichloroethane	ND		200	231		ug/L	115	69 - 135	
1,1,2,2-Tetrachloroethane	ND		200	219		ug/L	109	68 - 132	
1,1,2-Trichloroethane	ND		200	239		ug/L	119	71 - 133	
1,1-Dichloroethane	ND		200	259		ug/L	130	70 - 133	
1,1-Dichloroethene	ND		200	245		ug/L	123	69 - 139	
1,2,3-Trichloropropane	ND		200	192		ug/L	96	66 - 132	
1,2-Dibromo-3-Chloropropane	ND		200	214		ug/L	107	62 - 127	
1,2-Dibromoethane	ND		200	215		ug/L	108	76 - 129	
1,2-Dichlorobenzene	ND		200	213		ug/L	107	76 - 125	
1,2-Dichloroethane	ND		200	224		ug/L	112	70 - 133	
1,2-Dichloropropane	ND		200	248		ug/L	124	69 - 132	
1,4-Dichlorobenzene	ND		200	208		ug/L	104	76 - 124	
2-Butanone	ND		400	ND		ug/L	114	50 - 150	
2-Hexanone	ND		400	494		ug/L	123	50 - 150	
4-Methyl-2-pentanone	ND		400	485		ug/L	121	50 - 150	
Acetone	ND		400	ND		ug/L	117	50 - 150	
Acrylonitrile	ND		200	249		ug/L	125	50 - 150	
Benzene	ND		200	231		ug/L	115	71 - 133	
Bromochloromethane	ND		200	224		ug/L	112	70 - 133	
Bromodichloromethane	ND		200	212		ug/L	106	68 - 133	
Bromoform	ND		200	174		ug/L	87	58 - 130	
Bromomethane	ND F1		200	279		ug/L	140	50 - 150	
Carbon disulfide	ND		400	517		ug/L	129	50 - 150	
Carbon tetrachloride	ND		200	219		ug/L	110	70 - 139	
Chlorobenzene	ND		200	209		ug/L	104	78 - 128	
Chloroethane	ND F1		200	294		ug/L	147	50 - 150	
Chloroform	ND		200	226		ug/L	113	68 - 132	
Chloromethane	ND *+ F1		200	299		ug/L	150	50 - 150	
cis-1,2-Dichloroethene	ND		200	230		ug/L	115	72 - 133	
cis-1,3-Dichloropropene	ND		200	210		ug/L	105	70 - 128	
Dibromochloromethane	ND		200	199		ug/L	100	68 - 130	
Dibromomethane	ND		200	224		ug/L	112	72 - 130	
Ethylbenzene	ND		200	229		ug/L	115	75 - 131	
Iodomethane	ND		400	452		ug/L	113	50 - 150	
m,p-Xylene	ND		400	457		ug/L	114	73 - 133	
Methylene Chloride	ND		200	238		ug/L	119	66 - 132	
o-Xylene	ND		200	229		ug/L	114	73 - 132	
Styrene	ND		200	227		ug/L	113	73 - 133	

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 705-7302-B-16 MS ^10**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Tetrachloroethene	ND		200	218		ug/L		109	74 - 135
Toluene	ND		200	223		ug/L		111	72 - 134
trans-1,2-Dichloroethene	ND		200	240		ug/L		120	71 - 132
trans-1,3-Dichloropropene	ND		200	208		ug/L		104	60 - 125
trans-1,4-Dichloro-2-butene	ND		400	292		ug/L		73	50 - 150
Trichloroethene	ND		200	225		ug/L		112	77 - 136
Trichlorofluoromethane	ND F1		200	270	F1	ug/L		135	69 - 133
Vinyl acetate	ND		400	508		ug/L		127	50 - 150
Vinyl chloride	ND *+ F1		200	304	F1	ug/L		152	66 - 138
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Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene	102		70 - 126						
Dibromofluoromethane (Surr)	98		77 - 121						
Toluene-d8 (Surr)	103		79 - 119						

**Lab Sample ID: 705-7302-B-16 MSD ^10**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		200	200		ug/L		100	69 - 133	8	18
1,1,1-Trichloroethane	ND		200	217		ug/L		108	69 - 135	6	20
1,1,2,2-Tetrachloroethane	ND		200	233		ug/L		117	68 - 132	6	19
1,1,2-Trichloroethane	ND		200	211		ug/L		106	71 - 133	12	20
1,1-Dichloroethane	ND		200	237		ug/L		119	70 - 133	9	22
1,1-Dichloroethene	ND		200	234		ug/L		117	69 - 139	5	56
1,2,3-Trichloropropane	ND		200	199		ug/L		99	66 - 132	3	39
1,2-Dibromo-3-Chloropropane	ND		200	206		ug/L		103	62 - 127	4	20
1,2-Dibromoethane	ND		200	203		ug/L		101	76 - 129	6	20
1,2-Dichlorobenzene	ND		200	200		ug/L		100	76 - 125	6	20
1,2-Dichloroethane	ND		200	206		ug/L		103	70 - 133	8	41
1,2-Dichloropropane	ND		200	233		ug/L		117	69 - 132	6	20
1,4-Dichlorobenzene	ND		200	196		ug/L		98	76 - 124	6	20
2-Butanone	ND		400	ND		ug/L		115	50 - 150	1	20
2-Hexanone	ND		400	494		ug/L		123	50 - 150	0	50
4-Methyl-2-pentanone	ND		400	468		ug/L		117	50 - 150	4	50
Acetone	ND		400	ND		ug/L		116	50 - 150	1	50
Acrylonitrile	ND		200	258		ug/L		129	50 - 150	3	100
Benzene	ND		200	219		ug/L		110	71 - 133	5	42
Bromochloromethane	ND		200	221		ug/L		111	70 - 133	1	20
Bromodichloromethane	ND		200	209		ug/L		104	68 - 133	2	20
Bromoform	ND		200	169		ug/L		84	58 - 130	3	20
Bromomethane	ND F1		200	265		ug/L		133	50 - 150	5	100
Carbon disulfide	ND		400	483		ug/L		121	50 - 150	7	50
Carbon tetrachloride	ND		200	204		ug/L		102	70 - 139	7	22
Chlorobenzene	ND		200	204		ug/L		102	78 - 128	2	50
Chloroethane	ND F1		200	284		ug/L		142	50 - 150	3	100
Chloroform	ND		200	226		ug/L		113	68 - 132	0	20

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 705-7302-B-16 MSD ^10**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

**Matrix: Water**

**Analysis Batch: 13080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Chloromethane	ND	*+ F1	200	296		ug/L	148	50 - 150	1	100	
cis-1,2-Dichloroethene	ND		200	216		ug/L	108	72 - 133	6	14	
cis-1,3-Dichloropropene	ND		200	201		ug/L	101	70 - 128	4	14	
Dibromochloromethane	ND		200	192		ug/L	96	68 - 130	4	20	
Dibromomethane	ND		200	210		ug/L	105	72 - 130	6	20	
Ethylbenzene	ND		200	214		ug/L	107	75 - 131	7	28	
Iodomethane	ND		400	439		ug/L	110	50 - 150	3	50	
m,p-Xylene	ND		400	430		ug/L	108	73 - 133	6	28	
Methylene Chloride	ND		200	237		ug/L	118	66 - 132	0	20	
o-Xylene	ND		200	217		ug/L	108	73 - 132	5	28	
Styrene	ND		200	217		ug/L	109	73 - 133	4	20	
Tetrachloroethene	ND		200	210		ug/L	105	74 - 135	3	20	
Toluene	ND		200	216		ug/L	108	72 - 134	3	42	
trans-1,2-Dichloroethene	ND		200	227		ug/L	114	71 - 132	6	20	
trans-1,3-Dichloropropene	ND		200	203		ug/L	101	60 - 125	3	20	
trans-1,4-Dichloro-2-butene	ND		400	330		ug/L	83	50 - 150	12	50	
Trichloroethene	ND		200	207		ug/L	103	77 - 136	8	51	
Trichlorofluoromethane	ND	F1	200	267	F1	ug/L	134	69 - 133	1	23	
Vinyl acetate	ND		400	505		ug/L	126	50 - 150	1	50	
Vinyl chloride	ND	*+ F1	200	290	F1	ug/L	145	66 - 138	5	23	
<hr/>											
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene	100		70 - 126								
Dibromofluoromethane (Surr)	97		77 - 121								
Toluene-d8 (Surr)	101		79 - 119								

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

**Lab Sample ID: MB 705-12949/1-A**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 13318**

**Prep Batch: 12949**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L	09/20/24 15:06	09/23/24 20:56	17.5	
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L	09/20/24 15:06	09/23/24 20:56	17.5	
<hr/>								
Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene	110		74 - 131	09/20/24 15:06	09/23/24 20:56	17.5		

**Lab Sample ID: HLCS 705-12949/4-A**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 13318**

**Prep Batch: 12949**

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
1,2-Dibromoethane	0.250	0.240		ug/L	96	60 - 140	
1,2-Dibromo-3-Chloropropane	0.250	0.250		ug/L	100	60 - 140	

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# QC Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## **Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)**

**Lab Sample ID: HLCS 705-12949/4-A**

**Matrix: Water**

**Analysis Batch: 13318**

Surrogate	HLCS %Recovery	HLCS Qualifier	Limits
4-Bromofluorobenzene	110		74 - 131

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 12949**

**Lab Sample ID: LCS 705-12949/2-A**

**Matrix: Water**

**Analysis Batch: 13318**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dibromoethane	0.100	0.100		ug/L	100	60 - 140	
1,2-Dibromo-3-Chloropropane	0.100	0.110		ug/L	110	60 - 140	
Surrogate	LCS %Recovery		LCS Qualifier	Limits			
4-Bromofluorobenzene	113			74 - 131			

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 12949**

**Lab Sample ID: LCSD 705-12949/3-A**

**Matrix: Water**

**Analysis Batch: 13318**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	Limit
1,2-Dibromoethane	0.100	0.100		ug/L	100	60 - 140	0	20
1,2-Dibromo-3-Chloropropane	0.100	0.110		ug/L	110	60 - 140	0	20
Surrogate	LCSD %Recovery		LCSD Qualifier	Limits				
4-Bromofluorobenzene	111			74 - 131				

**Lab Sample ID: 705-7410-1 MS**

**Matrix: Water**

**Analysis Batch: 13318**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	RPD	Limit
1,2-Dibromoethane	ND		0.0916	0.0825		ug/L	90	73 - 136		
1,2-Dibromo-3-Chloropropane	ND		0.0916	0.101		ug/L	110	73 - 132		
Surrogate	MS %Recovery		MS Qualifier	Limits						
4-Bromofluorobenzene	128			74 - 131						

**Client Sample ID: GC-GWA-3R**

**Prep Type: Total/NA**

**Prep Batch: 12949**

**Lab Sample ID: 705-7410-2 DU**

**Matrix: Water**

**Analysis Batch: 13318**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1,2-Dibromoethane	ND		ND		ug/L		NC	38
1,2-Dibromo-3-Chloropropane	ND		ND		ug/L		NC	
Surrogate	DU %Recovery		DU Qualifier	Limits				
4-Bromofluorobenzene	152	S1+		74 - 131				

**Client Sample ID: GC-GWA-1**

**Prep Type: Total/NA**

**Prep Batch: 12949**

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# QC Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 705-12727/1-A**

**Matrix: Water**

**Analysis Batch: 12887**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/19/24 13:58	09/19/24 19:49	1

**Lab Sample ID: LCS 705-12727/2-A**

**Matrix: Water**

**Analysis Batch: 12887**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.00399		mg/L		100	80 - 120

**Lab Sample ID: 705-7410-1 MS**

**Matrix: Water**

**Analysis Batch: 12887**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00400	0.00402		mg/L		100	75 - 125

**Lab Sample ID: 705-7410-1 MSD**

**Matrix: Water**

**Analysis Batch: 12887**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00405		mg/L		101	75 - 125	1	20

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 12727**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 12727**

**Client Sample ID: GC-GWA-3R**

**Prep Type: Total/NA**

**Prep Batch: 12727**

**Client Sample ID: GC-GWA-3R**

**Prep Type: Total/NA**

**Prep Batch: 12727**

## Accreditation/Certification Summary

Client: Oasis Consulting Services

Job ID: 705-7410-1

Project/Site: Gun Club Road LF Second Event

### Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

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## Method Summary

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ATL
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
7470A	Mercury (CVAA)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
5030B	Purge and Trap	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL
8011	Microextraction	SW846	EET ATL

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

# Sample Summary

Client: Oasis Consulting Services  
Project/Site: Gun Club Road LF Second Event

Job ID: 705-7410-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-7410-1	GC-GWA-3R	Water	09/16/24 11:45	09/16/24 15:35
705-7410-2	GC-GWA-1	Water	09/16/24 11:30	09/16/24 15:35
705-7410-3	GC-GWC-6	Water	09/16/24 10:00	09/16/24 15:35
705-7410-4	GC-GWC-7	Water	09/16/24 12:25	09/16/24 15:35
705-7410-5	GC-GWC-9	Water	09/16/24 11:15	09/16/24 15:35
705-7410-6	GC-GWC-10	Water	09/16/24 12:50	09/16/24 15:35
705-7410-7	TRIP BLANK	Water	09/16/24 07:00	09/16/24 15:35
705-7410-8	GC-GWC-7D	Water	09/16/24 14:00	09/16/24 15:35
705-7410-9	GC-DUPLICATE 1	Water	09/16/24 00:00	09/16/24 15:35
705-7410-10	GC-EQUIPMENT BLANK	Water	09/16/24 12:00	09/16/24 15:35
705-7410-11	GC-FIELD BLANK	Water	09/16/24 11:55	09/16/24 15:35

**END OF REPORT**

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Chase Maughon  
Oasis Consulting Services  
885 Woodstock Rd  
Suite 430  
PMB 382  
Roswell, Georgia 30075

Generated 9/26/2024 1:13:55 PM

## JOB DESCRIPTION

Gun Club Rd LF Second Event

## JOB NUMBER

705-7594-1

# Eurofins Atlanta

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

### Authorization



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9/26/2024 1:13:55 PM

Authorized for release by  
Shawn Boyd, Project Manager  
[shawn.boyd@et.eurofinsus.com](mailto:shawn.boyd@et.eurofinsus.com)  
(770)457-8177

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# Definitions/Glossary

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

## Glossary

### Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Environment Testing

Eurofins Environment Testing Southeast-Atlanta, LLC

3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

Work Order: \_\_\_\_\_  
Page 1 of 1

## CHAIN OF CUSTODY

COMPANY: <b>Oasis Consulting</b>		ADDRESS: 45 Woodstock St Roswell GA 30075		ANALYSIS REQUESTED										Visit our website www.EurofinsUS.com for downloadable COCs.	Number of Containers								
PHONE: 678-739-2400		EMAIL: cmaughon@oasis-cs.com / bnolin@oasis-cs.com		App I VOC	Micro Extractables	App I Metals + Hg																	
SAMPLED BY:		SIGNATURE:																					
#	SAMPLE ID	SAMPLER:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS						
		DATE	TIME				H+I	I	N+I														
1	GC-GWA-1			✓		GW	✓	✓	✓							5							
2	GC-GWA-2R	9/16/24	11:00	✓		GW	✓	✓	✓	✓						5							
3	GC-GWA-3R	9/17/24	9:10	✓		GW	✓	✓	✓	✓						5							
4	GC-GWC-1			✓		GW	✓	✓	✓	✓						5							
5	GC-GWC-2	9/16/24	13:20	✓		GW	✓	✓	✓	✓						5							
6	GC-GWC-2R	9/17/24	8:50	✓		GW	✗	✗	✗	✓						5							
7	GC-GWC-4			✓		GW	✓	✓	✓	✓						5							
8	GC-GWC-5			✓		GW	✓	✓	✓	✓						5							
9	GC-GWC-6			✓		GW	✓	✓	✓	✓						5							
10	GC-GWC-7			✓		GW	✓	✓	✓	✓						5							
11	GC-GWC-8	9/17/24	10:00	✓		GW	✓	✓	✓	✓						5							
12	GC-GWC-9			✓		GW	✓	✓	✓	✓						5							
13	GC-GWC-10			✓		GW	✓	✓	✓	✓						5							
14	Trip Blank			✓		W	✓									2							
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT					
1. <i>[Signature]</i> 9/17/24 1317		1. <i>[Signature]</i> 9/17/24 1317						PROJECT NAME: Gun Club Rd LF Second Event										Total # of Containers					
2.		2.						PROJECT #: _____										Turnaround Time (TAT) Request in Business Days					
3.		3.						SITE ADDRESS: _____										<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> 4-Day Rush*				
								SEND REPORT TO: cmaughon@oasis-cs.com										<input type="checkbox"/> 3-Day Rush*	<input type="checkbox"/> 2-Day Rush*				
								INVOICE TO (IF DIFFERENT FROM ABOVE): accounting@oasis-cs.com										<input type="checkbox"/> Next Day Rush*	<input type="checkbox"/> Other _____				
								QUOTE #: _____ PO #: _____										<input type="checkbox"/> Same-Day Rush* (auth req.)	* Surcharges apply for Rush TAT				
																		REGULATORY PROGRAM (If any):					
																		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>					
Submission of samples to the laboratory constitutes acceptance of EETSE'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, EETSE-Atlanta will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																							

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

2.27.24\_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 NaOH=SH O = Other (specify) NA = None

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# Case Narrative

Client: Oasis Consulting Services  
Project: Gun Club Rd LF Second Event

Job ID: 705-7594-1

**Job ID: 705-7594-1**

**Eurofins Atlanta**

## Job Narrative 705-7594-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 9/17/2024 1:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

### GC/MS VOA

Method 8260D: The laboratory control sample (LCS) for analytical batch 705-13080 recovered outside control limits for the following analytes: Chloromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Due to the high concentration of Trichlorofluoromethane and Vinyl chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 705-13080 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC Semi VOA

Method 8011: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 705-13527 and analytical batch 705-13789 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane.

Method 8011: Surrogate 4-Bromofluorobenzene recovery for the following sample was outside the upper control limit: (LCS 705-13527/3-A).

Method 8011: Surrogate 4-Bromofluorobenzene recovery for the following samples were outside the upper control limit: GC-GWA-2R (705-7594-1), GC-GWC-8 (705-7594-5), (705-7594-D-1-A MS) and (705-7594-D-3-A DU).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## Client Sample ID: GC-GWA-2R

Date Collected: 09/16/24 11:00

Date Received: 09/17/24 13:17

## Lab Sample ID: 705-7594-1

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 06:57		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 06:57		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 06:57		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 06:57		1
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 06:57		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 06:57		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 06:57		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 06:57		1
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 06:57		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 06:57		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 06:57		1
1,2-Dichloropropane	ND		5.0	ug/L		09/21/24 06:57		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 06:57		1
2-Butanone	ND		50	ug/L		09/21/24 06:57		1
2-Hexanone	ND		10	ug/L		09/21/24 06:57		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 06:57		1
Acetone	ND		50	ug/L		09/21/24 06:57		1
Acrylonitrile	ND		5.0	ug/L		09/21/24 06:57		1
Benzene	ND		5.0	ug/L		09/21/24 06:57		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 06:57		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 06:57		1
Bromoform	ND		5.0	ug/L		09/21/24 06:57		1
Bromomethane	ND		5.0	ug/L		09/21/24 06:57		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 06:57		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 06:57		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 06:57		1
Chloroethane	ND		4.6	ug/L		09/21/24 06:57		1
Chloroform	ND		5.0	ug/L		09/21/24 06:57		1
Chloromethane	ND	**+	10	ug/L		09/21/24 06:57		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 06:57		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 06:57		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 06:57		1
Dibromomethane	ND		5.0	ug/L		09/21/24 06:57		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 06:57		1
Iodomethane	ND		10	ug/L		09/21/24 06:57		1
m,p-Xylene	ND		10	ug/L		09/21/24 06:57		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 06:57		1
o-Xylene	ND		10	ug/L		09/21/24 06:57		1
Styrene	ND		5.0	ug/L		09/21/24 06:57		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 06:57		1
Toluene	ND		5.0	ug/L		09/21/24 06:57		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 06:57		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 06:57		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 06:57		1
Trichloroethene	ND		5.0	ug/L		09/21/24 06:57		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 06:57		1
Vinyl acetate	ND		10	ug/L		09/21/24 06:57		1
Vinyl chloride	ND	**+	2.0	ug/L		09/21/24 06:57		1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## Client Sample ID: GC-GWA-2R

Lab Sample ID: 705-7594-1

Matrix: Water

Date Collected: 09/16/24 11:00

Date Received: 09/17/24 13:17

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 126		09/21/24 06:57	1
Dibromofluoromethane (Surr)	102		77 - 121		09/21/24 06:57	1
Toluene-d8 (Surr)	102		79 - 119		09/21/24 06:57	1

### Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/25/24 11:09	09/25/24 16:34	17.5
1,2-Dibromo-3-Chloropropane	ND	*1	0.040	ug/L		09/25/24 11:09	09/25/24 16:34	17.5
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	134	S1+	74 - 131			09/25/24 11:09	09/25/24 16:34	17.5

## Client Sample ID: GC-GWA-2R

Lab Sample ID: 705-7594-2

Matrix: Water

Date Collected: 09/17/24 09:10

Date Received: 09/17/24 13:17

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/23/24 10:15	09/23/24 19:15	1
Arsenic	ND		0.010	mg/L		09/23/24 10:15	09/23/24 19:15	1
<b>Barium</b>	<b>0.028</b>		0.020	mg/L		09/23/24 10:15	09/23/24 19:15	1
Beryllium	ND		0.0010	mg/L		09/23/24 10:15	09/23/24 19:15	1
Cadmium	ND		0.00070	mg/L		09/23/24 10:15	09/23/24 19:15	1
Chromium	ND		0.0050	mg/L		09/23/24 10:15	09/23/24 19:15	1
Cobalt	ND		0.050	mg/L		09/23/24 10:15	09/23/24 19:15	1
Copper	ND		0.0020	mg/L		09/23/24 10:15	09/23/24 19:15	1
Lead	ND		0.0010	mg/L		09/23/24 10:15	09/23/24 19:15	1
<b>Nickel</b>	<b>0.017</b>		0.0050	mg/L		09/23/24 10:15	09/23/24 19:15	1
Selenium	ND		0.0050	mg/L		09/23/24 10:15	09/23/24 19:15	1
Silver	ND		0.0010	mg/L		09/23/24 10:15	09/23/24 19:15	1
Thallium	ND		0.0020	mg/L		09/23/24 10:15	09/23/24 19:15	1
Vanadium	ND		0.0050	mg/L		09/23/24 10:15	09/23/24 19:15	1
<b>Zinc</b>	<b>0.017</b>		0.010	mg/L		09/23/24 10:15	09/23/24 19:15	1

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L		09/23/24 14:31	09/23/24 18:31	1

## Client Sample ID: GC-GWC-2

Lab Sample ID: 705-7594-3

Matrix: Water

Date Collected: 09/16/24 13:20

Date Received: 09/17/24 13:17

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 07:21		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 07:21		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 07:21		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 07:21		1
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 07:21		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 07:21		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 07:21		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 07:21		1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## Client Sample ID: GC-GWC-2

Date Collected: 09/16/24 13:20

Date Received: 09/17/24 13:17

## Lab Sample ID: 705-7594-3

Matrix: Water

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 07:21		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 07:21		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 07:21		1
1,2-Dichloropropane	ND		5.0	ug/L		09/21/24 07:21		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 07:21		1
2-Butanone	ND		50	ug/L		09/21/24 07:21		1
2-Hexanone	ND		10	ug/L		09/21/24 07:21		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 07:21		1
Acetone	ND		50	ug/L		09/21/24 07:21		1
Acrylonitrile	ND		5.0	ug/L		09/21/24 07:21		1
Benzene	ND		5.0	ug/L		09/21/24 07:21		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 07:21		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 07:21		1
Bromoform	ND		5.0	ug/L		09/21/24 07:21		1
Bromomethane	ND		5.0	ug/L		09/21/24 07:21		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 07:21		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 07:21		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 07:21		1
Chloroethane	ND		4.6	ug/L		09/21/24 07:21		1
Chloroform	ND		5.0	ug/L		09/21/24 07:21		1
Chloromethane	ND *+		10	ug/L		09/21/24 07:21		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 07:21		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 07:21		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 07:21		1
Dibromomethane	ND		5.0	ug/L		09/21/24 07:21		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 07:21		1
Iodomethane	ND		10	ug/L		09/21/24 07:21		1
m,p-Xylene	ND		10	ug/L		09/21/24 07:21		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 07:21		1
o-Xylene	ND		10	ug/L		09/21/24 07:21		1
Styrene	ND		5.0	ug/L		09/21/24 07:21		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 07:21		1
Toluene	ND		5.0	ug/L		09/21/24 07:21		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 07:21		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 07:21		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 07:21		1
Trichloroethene	ND		5.0	ug/L		09/21/24 07:21		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 07:21		1
Vinyl acetate	ND		10	ug/L		09/21/24 07:21		1
Vinyl chloride	ND *+		2.0	ug/L		09/21/24 07:21		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene	96		70 - 126			09/21/24 07:21		1
Dibromofluoromethane (Surr)	99		77 - 121			09/21/24 07:21		1
Toluene-d8 (Surr)	100		79 - 119			09/21/24 07:21		1

### Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	ug/L		09/25/24 11:09	09/25/24 17:07	17.5
1,2-Dibromo-3-Chloropropane	ND *1		0.040	ug/L		09/25/24 11:09	09/25/24 17:07	17.5

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

**Client Sample ID: GC-GWC-2**  
Date Collected: 09/16/24 13:20  
Date Received: 09/17/24 13:17

**Lab Sample ID: 705-7594-3**  
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	123		74 - 131	09/25/24 11:09	09/25/24 17:07	17.5

**Client Sample ID: GC-GWC-2**  
Date Collected: 09/17/24 08:50  
Date Received: 09/17/24 13:17

**Lab Sample ID: 705-7594-4**  
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 19:17		1
Arsenic	ND		0.010	mg/L	09/23/24 10:15	09/23/24 19:17		1
<b>Barium</b>	<b>0.16</b>		0.020	mg/L	09/23/24 10:15	09/23/24 19:17		1
<b>Beryllium</b>	<b>0.0011</b>		0.0010	mg/L	09/23/24 10:15	09/23/24 19:17		1
Cadmium	ND		0.00070	mg/L	09/23/24 10:15	09/23/24 19:17		1
<b>Chromium</b>	<b>0.0058</b>		0.0050	mg/L	09/23/24 10:15	09/23/24 19:17		1
Cobalt	ND		0.050	mg/L	09/23/24 10:15	09/23/24 19:17		1
<b>Copper</b>	<b>0.0072</b>		0.0020	mg/L	09/23/24 10:15	09/23/24 19:17		1
Lead	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 19:17		1
<b>Nickel</b>	<b>0.0097</b>		0.0050	mg/L	09/23/24 10:15	09/23/24 19:17		1
Selenium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 19:17		1
Silver	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 19:17		1
Thallium	ND		0.0020	mg/L	09/23/24 10:15	09/23/24 19:17		1
Vanadium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 19:17		1
Zinc	ND		0.010	mg/L	09/23/24 10:15	09/23/24 19:17		1

Method: SW846 7470A - Mercury (CVAA)	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/23/24 14:31	09/23/24 18:42		1

**Client Sample ID: GC-GWC-8**  
Date Collected: 09/17/24 10:00  
Date Received: 09/17/24 13:17

**Lab Sample ID: 705-7594-5**  
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 07:44		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 07:44		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 07:44		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 07:44		1
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 07:44		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 07:44		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 07:44		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 07:44		1
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 07:44		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 07:44		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 07:44		1
1,2-Dichloropropene	ND		5.0	ug/L		09/21/24 07:44		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 07:44		1
2-Butanone	ND		50	ug/L		09/21/24 07:44		1
2-Hexanone	ND		10	ug/L		09/21/24 07:44		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 07:44		1
Acetone	ND		50	ug/L		09/21/24 07:44		1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

**Client Sample ID: GC-GWC-8**  
Date Collected: 09/17/24 10:00  
Date Received: 09/17/24 13:17

**Lab Sample ID: 705-7594-5**  
Matrix: Water

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0	ug/L		09/21/24 07:44		1
Benzene	ND		5.0	ug/L		09/21/24 07:44		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 07:44		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 07:44		1
Bromoform	ND		5.0	ug/L		09/21/24 07:44		1
Bromomethane	ND		5.0	ug/L		09/21/24 07:44		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 07:44		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 07:44		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 07:44		1
Chloroethane	ND		4.6	ug/L		09/21/24 07:44		1
Chloroform	ND		5.0	ug/L		09/21/24 07:44		1
Chloromethane	ND *+		10	ug/L		09/21/24 07:44		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 07:44		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 07:44		1
Dibromochloromethane	ND		5.0	ug/L		09/21/24 07:44		1
Dibromomethane	ND		5.0	ug/L		09/21/24 07:44		1
Ethylbenzene	ND		5.0	ug/L		09/21/24 07:44		1
Iodomethane	ND		10	ug/L		09/21/24 07:44		1
m,p-Xylene	ND		10	ug/L		09/21/24 07:44		1
Methylene Chloride	ND		5.0	ug/L		09/21/24 07:44		1
o-Xylene	ND		10	ug/L		09/21/24 07:44		1
Styrene	ND		5.0	ug/L		09/21/24 07:44		1
Tetrachloroethene	ND		5.0	ug/L		09/21/24 07:44		1
Toluene	ND		5.0	ug/L		09/21/24 07:44		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 07:44		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 07:44		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 07:44		1
Trichloroethene	ND		5.0	ug/L		09/21/24 07:44		1
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 07:44		1
Vinyl acetate	ND		10	ug/L		09/21/24 07:44		1
Vinyl chloride	ND *+		2.0	ug/L		09/21/24 07:44		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		70 - 126				09/21/24 07:44	1
Dibromofluoromethane (Sur)	100		77 - 121				09/21/24 07:44	1
Toluene-d8 (Sur)	100		79 - 119				09/21/24 07:44	1

## Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
1,2-Dibromoethane	ND		0.020	ug/L		09/25/24 11:09	09/25/24 17:42	17.5	
1,2-Dibromo-3-Chloropropane	ND *1		0.040	ug/L		09/25/24 11:09	09/25/24 17:42	17.5	
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene	137	S1+	74 - 131				09/25/24 11:09	09/25/24 17:42	17.5

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0050	mg/L		09/23/24 10:15	09/23/24 19:20	1
Arsenic	ND		0.010	mg/L		09/23/24 10:15	09/23/24 19:20	1
Barium	ND		0.020	mg/L		09/23/24 10:15	09/23/24 19:20	1

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# Client Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## **Client Sample ID: GC-GWC-8**

Date Collected: 09/17/24 10:00

Date Received: 09/17/24 13:17

**Lab Sample ID: 705-7594-5**

Matrix: Water

### **Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 19:20		1
Cadmium	ND		0.00070	mg/L	09/23/24 10:15	09/23/24 19:20		1
Chromium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 19:20		1
Cobalt	ND		0.050	mg/L	09/23/24 10:15	09/23/24 19:20		1
Copper	ND		0.0020	mg/L	09/23/24 10:15	09/23/24 19:20		1
Lead	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 19:20		1
Nickel	<b>0.0071</b>		0.0050	mg/L	09/23/24 10:15	09/23/24 19:20		1
Selenium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 19:20		1
Silver	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 19:20		1
Thallium	ND		0.0020	mg/L	09/23/24 10:15	09/23/24 19:20		1
Vanadium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 19:20		1
Zinc	ND		0.010	mg/L	09/23/24 10:15	09/23/24 19:20		1

### **Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	mg/L	09/23/24 14:31	09/23/24 18:46		1

## **Client Sample ID: TRIP BLANK**

Date Collected: 09/17/24 00:00

Date Received: 09/17/24 13:17

**Lab Sample ID: 705-7594-6**

Matrix: Water

### **Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 00:39		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/21/24 00:39		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/21/24 00:39		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/21/24 00:39		1
1,1-Dichloroethane	ND		5.0	ug/L		09/21/24 00:39		1
1,1-Dichloroethene	ND		5.0	ug/L		09/21/24 00:39		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/21/24 00:39		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/21/24 00:39		1
1,2-Dibromoethane	ND		5.0	ug/L		09/21/24 00:39		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/21/24 00:39		1
1,2-Dichloroethane	ND		5.0	ug/L		09/21/24 00:39		1
1,2-Dichloropropene	ND		5.0	ug/L		09/21/24 00:39		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/21/24 00:39		1
2-Butanone	ND		50	ug/L		09/21/24 00:39		1
2-Hexanone	ND		10	ug/L		09/21/24 00:39		1
4-Methyl-2-pentanone	ND		10	ug/L		09/21/24 00:39		1
Acetone	ND		50	ug/L		09/21/24 00:39		1
Acrylonitrile	ND		5.0	ug/L		09/21/24 00:39		1
Benzene	ND		5.0	ug/L		09/21/24 00:39		1
Bromochloromethane	ND		5.0	ug/L		09/21/24 00:39		1
Bromodichloromethane	ND		5.0	ug/L		09/21/24 00:39		1
Bromoform	ND		5.0	ug/L		09/21/24 00:39		1
Bromomethane	ND		5.0	ug/L		09/21/24 00:39		1
Carbon disulfide	ND		5.0	ug/L		09/21/24 00:39		1
Carbon tetrachloride	ND		5.0	ug/L		09/21/24 00:39		1
Chlorobenzene	ND		5.0	ug/L		09/21/24 00:39		1
Chloroethane	ND		4.6	ug/L		09/21/24 00:39		1

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# Client Sample Results

Client: Oasis Consulting Services  
 Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## **Client Sample ID: TRIP BLANK**

**Lab Sample ID: 705-7594-6**

**Matrix: Water**

Date Collected: 09/17/24 00:00  
 Date Received: 09/17/24 13:17

### **Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloroform	ND		5.0	ug/L		09/21/24 00:39		1	
Chloromethane	ND	*+	10	ug/L		09/21/24 00:39		1	
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 00:39		1	
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 00:39		1	
Dibromochloromethane	ND		5.0	ug/L		09/21/24 00:39		1	
Dibromomethane	ND		5.0	ug/L		09/21/24 00:39		1	
Ethylbenzene	ND		5.0	ug/L		09/21/24 00:39		1	
Iodomethane	ND		10	ug/L		09/21/24 00:39		1	
m,p-Xylene	ND		10	ug/L		09/21/24 00:39		1	
Methylene Chloride	ND		5.0	ug/L		09/21/24 00:39		1	
o-Xylene	ND		10	ug/L		09/21/24 00:39		1	
Styrene	ND		5.0	ug/L		09/21/24 00:39		1	
Tetrachloroethene	ND		5.0	ug/L		09/21/24 00:39		1	
Toluene	ND		5.0	ug/L		09/21/24 00:39		1	
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/21/24 00:39		1	
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/21/24 00:39		1	
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/21/24 00:39		1	
Trichloroethene	ND		5.0	ug/L		09/21/24 00:39		1	
Trichlorofluoromethane	ND		5.0	ug/L		09/21/24 00:39		1	
Vinyl acetate	ND		10	ug/L		09/21/24 00:39		1	
Vinyl chloride	ND	*+	2.0	ug/L		09/21/24 00:39		1	
<b>Surrogate</b>									
4-Bromofluorobenzene	99			70 - 126			Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98			77 - 121			09/21/24 00:39		1
Toluene-d8 (Surr)	102			79 - 119			09/21/24 00:39		1

## Detection Summary

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

### **Client Sample ID: GC-GWA-2R**

**Lab Sample ID: 705-7594-1**

No Detections.

### **Client Sample ID: GC-GWA-2R**

**Lab Sample ID: 705-7594-2**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.028		0.020	mg/L	1		6020B	Total Recoverable
Nickel	0.017		0.0050	mg/L	1		6020B	Total Recoverable
Zinc	0.017		0.010	mg/L	1		6020B	Total Recoverable

### **Client Sample ID: GC-GWC-2**

**Lab Sample ID: 705-7594-3**

No Detections.

### **Client Sample ID: GC-GWC-2**

**Lab Sample ID: 705-7594-4**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.16		0.020	mg/L	1		6020B	Total Recoverable
Beryllium	0.0011		0.0010	mg/L	1		6020B	Total Recoverable
Chromium	0.0058		0.0050	mg/L	1		6020B	Total Recoverable
Copper	0.0072		0.0020	mg/L	1		6020B	Total Recoverable
Nickel	0.0097		0.0050	mg/L	1		6020B	Total Recoverable

### **Client Sample ID: GC-GWC-8**

**Lab Sample ID: 705-7594-5**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.0071		0.0050	mg/L	1		6020B	Total Recoverable

### **Client Sample ID: TRIP BLANK**

**Lab Sample ID: 705-7594-6**

No Detections.

This Detection Summary does not include radiochemical test results.

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## Login Sample Receipt Checklist

Client: Oasis Consulting Services

Job Number: 705-7594-1

**Login Number:** 7594

**List Source:** Eurofins Atlanta

**List Number:** 1

**Creator:** Neal, Anna

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Surrogate Summary

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

### Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-126)	DBFM (77-121)	TOL (79-119)
705-7302-B-16 MS ^10	Matrix Spike	102	98	103
705-7302-B-16 MSD ^10	Matrix Spike Duplicate	100	97	101
705-7594-1	GC-GWA-2R	94	102	102
705-7594-3	GC-GWC-2	96	99	100
705-7594-5	GC-GWC-8	97	100	100
705-7594-6	TRIP BLANK	99	98	102
LCS 705-13080/2	Lab Control Sample	105	100	104
MB 705-13080/3	Method Blank	95	101	99

#### Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (74-131)		
705-7594-1	GC-GWA-2R	134 S1+		
705-7594-1 MS	GC-GWA-2R	135 S1+		
705-7594-3	GC-GWC-2	123		
705-7594-3 DU	GC-GWC-2	133 S1+		
705-7594-5	GC-GWC-8	137 S1+		
HLCS 705-13527/5-A	Lab Control Sample	115		
LCS 705-13527/3-A	Lab Control Sample	139 S1+		
LCSD 705-13527/4-A	Lab Control Sample Dup	115		
MB 705-13527/2-A	Method Blank	120		

#### Surrogate Legend

BFB = 4-Bromofluorobenzene

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# Lab Chronicle

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## **Client Sample ID: GC-GWA-2R**

Date Collected: 09/16/24 11:00

Date Received: 09/17/24 13:17

## **Lab Sample ID: 705-7594-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 06:57
Total/NA	Prep	8011			13527	UH	EET ATL	09/25/24 11:09
Total/NA	Analysis	8011		17.5	13789	UH	EET ATL	09/25/24 16:34

## **Client Sample ID: GC-GWA-2R**

Date Collected: 09/17/24 09:10

Date Received: 09/17/24 13:17

## **Lab Sample ID: 705-7594-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			13043	BL	EET ATL	09/23/24 10:15
Total Recoverable	Analysis	6020B		1	13248	AD	EET ATL	09/23/24 19:15
Total/NA	Prep	7470A			13153	TA	EET ATL	09/23/24 14:31
Total/NA	Analysis	7470A		1	13378	TA	EET ATL	09/23/24 18:31

## **Client Sample ID: GC-GWC-2**

Date Collected: 09/16/24 13:20

Date Received: 09/17/24 13:17

## **Lab Sample ID: 705-7594-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 07:21
Total/NA	Prep	8011			13527	UH	EET ATL	09/25/24 11:09
Total/NA	Analysis	8011		17.5	13789	UH	EET ATL	09/25/24 17:07

## **Client Sample ID: GC-GWC-2**

Date Collected: 09/17/24 08:50

Date Received: 09/17/24 13:17

## **Lab Sample ID: 705-7594-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			13043	BL	EET ATL	09/23/24 10:15
Total Recoverable	Analysis	6020B		1	13248	AD	EET ATL	09/23/24 19:17
Total/NA	Prep	7470A			13153	TA	EET ATL	09/23/24 14:31
Total/NA	Analysis	7470A		1	13378	TA	EET ATL	09/23/24 18:42

## **Client Sample ID: GC-GWC-8**

Date Collected: 09/17/24 10:00

Date Received: 09/17/24 13:17

## **Lab Sample ID: 705-7594-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 07:44
Total/NA	Prep	8011			13527	UH	EET ATL	09/25/24 11:09
Total/NA	Analysis	8011		17.5	13789	UH	EET ATL	09/25/24 17:42
Total Recoverable	Prep	3005A			13043	BL	EET ATL	09/23/24 10:15
Total Recoverable	Analysis	6020B		1	13248	AD	EET ATL	09/23/24 19:20
Total/NA	Prep	7470A			13153	TA	EET ATL	09/23/24 14:31
Total/NA	Analysis	7470A		1	13378	TA	EET ATL	09/23/24 18:46

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## Lab Chronicle

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

### Client Sample ID: TRIP BLANK

Lab Sample ID: 705-7594-6

Matrix: Water

Date Collected: 09/17/24 00:00

Date Received: 09/17/24 13:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	13080	AV	EET ATL	09/21/24 00:39

#### Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 705-13080/3**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 13080**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 23:52		1
1,1,1-Trichloroethane	ND		5.0	ug/L		09/20/24 23:52		1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		09/20/24 23:52		1
1,1,2-Trichloroethane	ND		5.0	ug/L		09/20/24 23:52		1
1,1-Dichloroethane	ND		5.0	ug/L		09/20/24 23:52		1
1,1-Dichloroethene	ND		5.0	ug/L		09/20/24 23:52		1
1,2,3-Trichloropropane	ND		5.0	ug/L		09/20/24 23:52		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		09/20/24 23:52		1
1,2-Dibromoethane	ND		5.0	ug/L		09/20/24 23:52		1
1,2-Dichlorobenzene	ND		5.0	ug/L		09/20/24 23:52		1
1,2-Dichloroethane	ND		5.0	ug/L		09/20/24 23:52		1
1,2-Dichloropropene	ND		5.0	ug/L		09/20/24 23:52		1
1,4-Dichlorobenzene	ND		5.0	ug/L		09/20/24 23:52		1
2-Butanone	ND		50	ug/L		09/20/24 23:52		1
2-Hexanone	ND		10	ug/L		09/20/24 23:52		1
4-Methyl-2-pentanone	ND		10	ug/L		09/20/24 23:52		1
Acetone	ND		50	ug/L		09/20/24 23:52		1
Acrylonitrile	ND		5.0	ug/L		09/20/24 23:52		1
Benzene	ND		5.0	ug/L		09/20/24 23:52		1
Bromochloromethane	ND		5.0	ug/L		09/20/24 23:52		1
Bromodichloromethane	ND		5.0	ug/L		09/20/24 23:52		1
Bromoform	ND		5.0	ug/L		09/20/24 23:52		1
Bromomethane	ND		5.0	ug/L		09/20/24 23:52		1
Carbon disulfide	ND		5.0	ug/L		09/20/24 23:52		1
Carbon tetrachloride	ND		5.0	ug/L		09/20/24 23:52		1
Chlorobenzene	ND		5.0	ug/L		09/20/24 23:52		1
Chloroethane	ND		4.6	ug/L		09/20/24 23:52		1
Chloroform	ND		5.0	ug/L		09/20/24 23:52		1
Chloromethane	ND		10	ug/L		09/20/24 23:52		1
cis-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 23:52		1
cis-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 23:52		1
Dibromochloromethane	ND		5.0	ug/L		09/20/24 23:52		1
Dibromomethane	ND		5.0	ug/L		09/20/24 23:52		1
Ethylbenzene	ND		5.0	ug/L		09/20/24 23:52		1
Iodomethane	ND		10	ug/L		09/20/24 23:52		1
m,p-Xylene	ND		10	ug/L		09/20/24 23:52		1
Methylene Chloride	ND		5.0	ug/L		09/20/24 23:52		1
o-Xylene	ND		10	ug/L		09/20/24 23:52		1
Styrene	ND		5.0	ug/L		09/20/24 23:52		1
Tetrachloroethene	ND		5.0	ug/L		09/20/24 23:52		1
Toluene	ND		5.0	ug/L		09/20/24 23:52		1
trans-1,2-Dichloroethene	ND		5.0	ug/L		09/20/24 23:52		1
trans-1,3-Dichloropropene	ND		5.0	ug/L		09/20/24 23:52		1
trans-1,4-Dichloro-2-butene	ND		10	ug/L		09/20/24 23:52		1
Trichloroethene	ND		5.0	ug/L		09/20/24 23:52		1
Trichlorofluoromethane	ND		5.0	ug/L		09/20/24 23:52		1
Vinyl acetate	ND		10	ug/L		09/20/24 23:52		1
Vinyl chloride	ND		2.0	ug/L		09/20/24 23:52		1

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 705-13080/3**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene	95		70 - 126			09/20/24 23:52		1
Dibromofluoromethane (Surr)	101		77 - 121			09/20/24 23:52		1
Toluene-d8 (Surr)	99		79 - 119			09/20/24 23:52		1

**Lab Sample ID: LCS 705-13080/2**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LC S	LC S	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
1,1,1,2-Tetrachloroethane	20.0	19.1		ug/L		95	76 - 130	
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	71 - 124	
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	73 - 127	
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	69 - 127	
1,1-Dichloroethane	20.0	22.6		ug/L		113	65 - 126	
1,1-Dichloroethene	20.0	20.8		ug/L		104	69 - 130	
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	70 - 127	
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	64 - 125	
1,2-Dibromoethane	20.0	20.6		ug/L		103	68 - 133	
1,2-Dichlorobenzene	20.0	20.3		ug/L		102	69 - 127	
1,2-Dichloroethane	20.0	20.2		ug/L		101	72 - 127	
1,2-Dichloropropane	20.0	23.0		ug/L		115	71 - 121	
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	68 - 126	
2-Butanone	40.0	43.1 J		ug/L		108	74 - 131	
2-Hexanone	40.0	48.3		ug/L		121	70 - 130	
4-Methyl-2-pentanone	40.0	47.1		ug/L		118	76 - 122	
Acetone	40.0	49.8 J		ug/L		125	62 - 136	
Acrylonitrile	20.0	22.7		ug/L		113	62 - 141	
Benzene	20.0	21.2		ug/L		106	76 - 122	
Bromochloromethane	20.0	21.9		ug/L		110	76 - 120	
Bromodichloromethane	20.0	19.6		ug/L		98	70 - 124	
Bromoform	20.0	17.1		ug/L		86	65 - 129	
Bromomethane	20.0	23.7		ug/L		119	60 - 138	
Carbon disulfide	40.0	44.3		ug/L		111	71 - 122	
Carbon tetrachloride	20.0	18.8		ug/L		94	72 - 133	
Chlorobenzene	20.0	20.1		ug/L		100	75 - 121	
Chloroethane	20.0	27.2		ug/L		136	55 - 138	
Chloroform	20.0	20.7		ug/L		103	72 - 121	
Chloromethane	20.0	29.1 *+		ug/L		146	57 - 129	
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	76 - 121	
cis-1,3-Dichloropropene	20.0	20.9		ug/L		104	70 - 129	
Dibromochloromethane	20.0	18.9		ug/L		95	70 - 131	
Dibromomethane	20.0	20.9		ug/L		104	70 - 131	
Ethylbenzene	20.0	21.5		ug/L		108	75 - 127	
Iodomethane	40.0	41.0		ug/L		102	50 - 150	
m,p-Xylene	40.0	42.2		ug/L		105	76 - 128	
Methylene Chloride	20.0	21.5		ug/L		108	68 - 131	
o-Xylene	20.0	21.1		ug/L		105	78 - 124	
Styrene	20.0	21.0		ug/L		105	71 - 129	

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 705-13080/2**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte		Spike	LCS	LCS	Unit	D	%Rec	Limits
		Added	Result	Qualifier				
Tetrachloroethene		20.0	20.3		ug/L	101	74 - 129	
Toluene		20.0	21.1		ug/L	105	74 - 124	
trans-1,2-Dichloroethene		20.0	20.7		ug/L	104	74 - 124	
trans-1,3-Dichloropropene		20.0	20.2		ug/L	101	59 - 135	
trans-1,4-Dichloro-2-butene		40.0	33.1		ug/L	83	50 - 150	
Trichloroethene		20.0	19.5		ug/L	98	72 - 129	
Trichlorofluoromethane		20.0	23.8		ug/L	119	63 - 142	
Vinyl acetate		40.0	49.1		ug/L	123	50 - 150	
Vinyl chloride		20.0	27.0	*+	ug/L	135	65 - 132	

Surrogate	LCS	LCS	Limits
		%Recovery	Qualifier
4-Bromofluorobenzene	105		70 - 126
Dibromofluoromethane (Surr)	100		77 - 121
Toluene-d8 (Surr)	104		79 - 119

**Lab Sample ID: 705-7302-B-16 MS ^10**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		200	217		ug/L	109	69 - 133	
1,1,1-Trichloroethane	ND		200	231		ug/L	115	69 - 135	
1,1,2,2-Tetrachloroethane	ND		200	219		ug/L	109	68 - 132	
1,1,2-Trichloroethane	ND		200	239		ug/L	119	71 - 133	
1,1-Dichloroethane	ND		200	259		ug/L	130	70 - 133	
1,1-Dichloroethene	ND		200	245		ug/L	123	69 - 139	
1,2,3-Trichloropropane	ND		200	192		ug/L	96	66 - 132	
1,2-Dibromo-3-Chloropropane	ND		200	214		ug/L	107	62 - 127	
1,2-Dibromoethane	ND		200	215		ug/L	108	76 - 129	
1,2-Dichlorobenzene	ND		200	213		ug/L	107	76 - 125	
1,2-Dichloroethane	ND		200	224		ug/L	112	70 - 133	
1,2-Dichloropropane	ND		200	248		ug/L	124	69 - 132	
1,4-Dichlorobenzene	ND		200	208		ug/L	104	76 - 124	
2-Butanone	ND		400	ND		ug/L	114	50 - 150	
2-Hexanone	ND		400	494		ug/L	123	50 - 150	
4-Methyl-2-pentanone	ND		400	485		ug/L	121	50 - 150	
Acetone	ND		400	ND		ug/L	117	50 - 150	
Acrylonitrile	ND		200	249		ug/L	125	50 - 150	
Benzene	ND		200	231		ug/L	115	71 - 133	
Bromochloromethane	ND		200	224		ug/L	112	70 - 133	
Bromodichloromethane	ND		200	212		ug/L	106	68 - 133	
Bromoform	ND		200	174		ug/L	87	58 - 130	
Bromomethane	ND F1		200	279		ug/L	140	50 - 150	
Carbon disulfide	ND		400	517		ug/L	129	50 - 150	
Carbon tetrachloride	ND		200	219		ug/L	110	70 - 139	
Chlorobenzene	ND		200	209		ug/L	104	78 - 128	
Chloroethane	ND F1		200	294		ug/L	147	50 - 150	
Chloroform	ND		200	226		ug/L	113	68 - 132	

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 705-7302-B-16 MS ^10**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloromethane	ND	*+ F1	200	299		ug/L		150	50 - 150
cis-1,2-Dichloroethene	ND		200	230		ug/L		115	72 - 133
cis-1,3-Dichloropropene	ND		200	210		ug/L		105	70 - 128
Dibromochloromethane	ND		200	199		ug/L		100	68 - 130
Dibromomethane	ND		200	224		ug/L		112	72 - 130
Ethylbenzene	ND		200	229		ug/L		115	75 - 131
Iodomethane	ND		400	452		ug/L		113	50 - 150
m,p-Xylene	ND		400	457		ug/L		114	73 - 133
Methylene Chloride	ND		200	238		ug/L		119	66 - 132
o-Xylene	ND		200	229		ug/L		114	73 - 132
Styrene	ND		200	227		ug/L		113	73 - 133
Tetrachloroethene	ND		200	218		ug/L		109	74 - 135
Toluene	ND		200	223		ug/L		111	72 - 134
trans-1,2-Dichloroethene	ND		200	240		ug/L		120	71 - 132
trans-1,3-Dichloropropene	ND		200	208		ug/L		104	60 - 125
trans-1,4-Dichloro-2-butene	ND		400	292		ug/L		73	50 - 150
Trichloroethene	ND		200	225		ug/L		112	77 - 136
Trichlorofluoromethane	ND	F1	200	270	F1	ug/L		135	69 - 133
Vinyl acetate	ND		400	508		ug/L		127	50 - 150
Vinyl chloride	ND	*+ F1	200	304	F1	ug/L		152	66 - 138
<b>Surrogate</b>		<b>MS</b>	<b>MS</b>						
		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene	102			70 - 126					
Dibromofluoromethane (Surr)	98			77 - 121					
Toluene-d8 (Surr)	103			79 - 119					

**Lab Sample ID: 705-7302-B-16 MSD ^10**

**Matrix: Water**

**Analysis Batch: 13080**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		200	200		ug/L		100	69 - 133	8	18
1,1,1-Trichloroethane	ND		200	217		ug/L		108	69 - 135	6	20
1,1,2,2-Tetrachloroethane	ND		200	233		ug/L		117	68 - 132	6	19
1,1,2-Trichloroethane	ND		200	211		ug/L		106	71 - 133	12	20
1,1-Dichloroethane	ND		200	237		ug/L		119	70 - 133	9	22
1,1-Dichloroethene	ND		200	234		ug/L		117	69 - 139	5	56
1,2,3-Trichloropropane	ND		200	199		ug/L		99	66 - 132	3	39
1,2-Dibromo-3-Chloropropane	ND		200	206		ug/L		103	62 - 127	4	20
1,2-Dibromoethane	ND		200	203		ug/L		101	76 - 129	6	20
1,2-Dichlorobenzene	ND		200	200		ug/L		100	76 - 125	6	20
1,2-Dichloroethane	ND		200	206		ug/L		103	70 - 133	8	41
1,2-Dichloropropane	ND		200	233		ug/L		117	69 - 132	6	20
1,4-Dichlorobenzene	ND		200	196		ug/L		98	76 - 124	6	20
2-Butanone	ND		400	ND		ug/L		115	50 - 150	1	20
2-Hexanone	ND		400	494		ug/L		123	50 - 150	0	50
4-Methyl-2-pentanone	ND		400	468		ug/L		117	50 - 150	4	50
Acetone	ND		400	ND		ug/L		116	50 - 150	1	50

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 705-7302-B-16 MSD ^10

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 13080

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Acrylonitrile	ND		200	258		ug/L	129	50 - 150	3	100	
Benzene	ND		200	219		ug/L	110	71 - 133	5	42	
Bromochloromethane	ND		200	221		ug/L	111	70 - 133	1	20	
Bromodichloromethane	ND		200	209		ug/L	104	68 - 133	2	20	
Bromoform	ND		200	169		ug/L	84	58 - 130	3	20	
Bromomethane	ND F1		200	265		ug/L	133	50 - 150	5	100	
Carbon disulfide	ND		400	483		ug/L	121	50 - 150	7	50	
Carbon tetrachloride	ND		200	204		ug/L	102	70 - 139	7	22	
Chlorobenzene	ND		200	204		ug/L	102	78 - 128	2	50	
Chloroethane	ND F1		200	284		ug/L	142	50 - 150	3	100	
Chloroform	ND		200	226		ug/L	113	68 - 132	0	20	
Chloromethane	ND *+ F1		200	296		ug/L	148	50 - 150	1	100	
cis-1,2-Dichloroethene	ND		200	216		ug/L	108	72 - 133	6	14	
cis-1,3-Dichloropropene	ND		200	201		ug/L	101	70 - 128	4	14	
Dibromochloromethane	ND		200	192		ug/L	96	68 - 130	4	20	
Dibromomethane	ND		200	210		ug/L	105	72 - 130	6	20	
Ethylbenzene	ND		200	214		ug/L	107	75 - 131	7	28	
Iodomethane	ND		400	439		ug/L	110	50 - 150	3	50	
m,p-Xylene	ND		400	430		ug/L	108	73 - 133	6	28	
Methylene Chloride	ND		200	237		ug/L	118	66 - 132	0	20	
o-Xylene	ND		200	217		ug/L	108	73 - 132	5	28	
Styrene	ND		200	217		ug/L	109	73 - 133	4	20	
Tetrachloroethene	ND		200	210		ug/L	105	74 - 135	3	20	
Toluene	ND		200	216		ug/L	108	72 - 134	3	42	
trans-1,2-Dichloroethene	ND		200	227		ug/L	114	71 - 132	6	20	
trans-1,3-Dichloropropene	ND		200	203		ug/L	101	60 - 125	3	20	
trans-1,4-Dichloro-2-butene	ND		400	330		ug/L	83	50 - 150	12	50	
Trichloroethene	ND		200	207		ug/L	103	77 - 136	8	51	
Trichlorofluoromethane	ND F1		200	267 F1		ug/L	134	69 - 133	1	23	
Vinyl acetate	ND		400	505		ug/L	126	50 - 150	1	50	
Vinyl chloride	ND *+ F1		200	290 F1		ug/L	145	66 - 138	5	23	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		70 - 126
Dibromofluoromethane (Surr)	97		77 - 121
Toluene-d8 (Surr)	101		79 - 119

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 705-13527/2-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 13789

Prep Batch: 13527

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2-Dibromoethane	ND		0.020	ug/L		09/25/24 11:09	09/25/24 15:26	17.5
1,2-Dibromo-3-Chloropropane	ND		0.040	ug/L		09/25/24 11:09	09/25/24 15:26	17.5

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

**Lab Sample ID:** MB 705-13527/2-A

**Matrix:** Water

**Analysis Batch:** 13789

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 13527

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene			120		74 - 131	09/25/24 11:09	09/25/24 15:26	17.5

**Lab Sample ID:** HLCS 705-13527/5-A

**Matrix:** Water

**Analysis Batch:** 13789

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 13527

Analyte	HLCS	HLCS	Spike	HLCS	HLCS	Unit	D	%Rec	Limits
Surrogate	HLCS	HLCS	%Recovery	Qualifier	Limits				
1,2-Dibromoethane			0.250	0.260		ug/L		104	60 - 140
1,2-Dibromo-3-Chloropropane			0.250	0.250		ug/L		100	60 - 140

**Lab Sample ID:** LCS 705-13527/3-A

**Matrix:** Water

**Analysis Batch:** 13789

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 13527

Analyte	LCS	LCS	Spike	LCS	LCS	Unit	D	%Rec	Limits
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits				
1,2-Dibromoethane			0.100	0.110		ug/L		110	60 - 140
1,2-Dibromo-3-Chloropropane			0.100	0.130		ug/L		130	60 - 140

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
4-Bromofluorobenzene			139	S1+	74 - 131

**Lab Sample ID:** LCSD 705-13527/4-A

**Matrix:** Water

**Analysis Batch:** 13789

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Total/NA

**Prep Batch:** 13527

Analyte	LCSD	LCSD	Spike	LCSD	LCSD	Unit	D	%Rec	RPD	Limit	
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits						
1,2-Dibromoethane			0.100	0.110		ug/L		110	60 - 140	0	20
1,2-Dibromo-3-Chloropropane			0.100	0.100 *1		ug/L		100	60 - 140	26	20

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene			115	S1+	74 - 131

**Lab Sample ID:** 705-7594-1 MS

**Matrix:** Water

**Analysis Batch:** 13789

**Client Sample ID:** GC-GWA-2R

**Prep Type:** Total/NA

**Prep Batch:** 13527

Surrogate	MS	MS	%Recovery	Qualifier	Limits
4-Bromofluorobenzene			135	S1+	74 - 131

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# QC Sample Results

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

**Lab Sample ID: 705-7594-3 DU**

**Matrix: Water**

**Analysis Batch: 13789**

**Client Sample ID: GC-GWC-2**

**Prep Type: Total/NA**

**Prep Batch: 13527**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
1,2-Dibromoethane	ND		ND		ug/L		NC	38
1,2-Dibromo-3-Chloropropane	ND	*1	ND	*1	ug/L		NC	
<i>DU DU</i>								
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene	133	S1+	74 - 131					

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 705-13043/1-A**

**Matrix: Water**

**Analysis Batch: 13248**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 13043**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Antimony	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 18:30		1
Arsenic	ND		0.010	mg/L	09/23/24 10:15	09/23/24 18:30		1
Barium	ND		0.020	mg/L	09/23/24 10:15	09/23/24 18:30		1
Beryllium	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 18:30		1
Cadmium	ND		0.00070	mg/L	09/23/24 10:15	09/23/24 18:30		1
Chromium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 18:30		1
Cobalt	ND		0.050	mg/L	09/23/24 10:15	09/23/24 18:30		1
Copper	ND		0.0020	mg/L	09/23/24 10:15	09/23/24 18:30		1
Lead	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 18:30		1
Nickel	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 18:30		1
Selenium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 18:30		1
Silver	ND		0.0010	mg/L	09/23/24 10:15	09/23/24 18:30		1
Thallium	ND		0.0020	mg/L	09/23/24 10:15	09/23/24 18:30		1
Vanadium	ND		0.0050	mg/L	09/23/24 10:15	09/23/24 18:30		1
Zinc	ND		0.010	mg/L	09/23/24 10:15	09/23/24 18:30		1

**Lab Sample ID: LCS 705-13043/2-A**

**Matrix: Water**

**Analysis Batch: 13248**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 13043**

Analyte	Spike	LCS	LCS	%Rec			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	0.100	0.0988		mg/L		99	80 - 120
Arsenic	0.100	0.0967		mg/L		97	80 - 120
Barium	0.100	0.103		mg/L		103	80 - 120
Beryllium	0.100	0.0944		mg/L		94	80 - 120
Cadmium	0.100	0.0987		mg/L		99	80 - 120
Chromium	0.100	0.0989		mg/L		99	80 - 120
Cobalt	0.100	0.0999		mg/L		100	80 - 120
Copper	0.100	0.101		mg/L		101	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Nickel	0.100	0.0998		mg/L		100	80 - 120
Selenium	0.100	0.0979		mg/L		98	80 - 120
Silver	0.0100	0.0103		mg/L		103	80 - 120
Thallium	0.100	0.0995		mg/L		99	80 - 120
Vanadium	0.100	0.0982		mg/L		98	80 - 120
Zinc	0.100	0.0968		mg/L		97	80 - 120

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# QC Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: 705-7582-A-6-B MS**

**Matrix: Water**

**Analysis Batch: 13248**

**Client Sample ID: Matrix Spike**

**Prep Type: Total Recoverable**

**Prep Batch: 13043**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Antimony	ND		0.100	0.0979		mg/L		98	75 - 125
Arsenic	ND		0.100	0.0952		mg/L		95	75 - 125
Barium	ND		0.100	0.105		mg/L		100	75 - 125
Beryllium	ND		0.100	0.0915		mg/L		91	75 - 125
Cadmium	ND		0.100	0.0981		mg/L		98	75 - 125
Chromium	ND		0.100	0.0985		mg/L		98	75 - 125
Cobalt	ND		0.100	0.0990		mg/L		99	75 - 125
Copper	ND		0.100	0.100		mg/L		100	75 - 125
Lead	ND		0.100	0.0997		mg/L		100	75 - 125
Nickel	ND		0.100	0.0991		mg/L		99	75 - 125
Selenium	ND		0.100	0.0978		mg/L		98	75 - 125
Silver	ND		0.0100	0.0101		mg/L		101	75 - 125
Thallium	ND		0.100	0.100		mg/L		100	75 - 125
Vanadium	ND		0.100	0.0980		mg/L		98	75 - 125
Zinc	ND		0.100	0.0967		mg/L		97	75 - 125

**Lab Sample ID: 705-7582-A-6-C MSD**

**Matrix: Water**

**Analysis Batch: 13248**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 13043**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Antimony	ND		0.100	0.0982		mg/L		98	75 - 125	0	20	
Arsenic	ND		0.100	0.0963		mg/L		96	75 - 125	1	20	
Barium	ND		0.100	0.107		mg/L		102	75 - 125	1	20	
Beryllium	ND		0.100	0.0925		mg/L		93	75 - 125	1	20	
Cadmium	ND		0.100	0.0997		mg/L		100	75 - 125	2	20	
Chromium	ND		0.100	0.0986		mg/L		99	75 - 125	0	20	
Cobalt	ND		0.100	0.0993		mg/L		99	75 - 125	0	20	
Copper	ND		0.100	0.0998		mg/L		100	75 - 125	0	20	
Lead	ND		0.100	0.0999		mg/L		100	75 - 125	0	20	
Nickel	ND		0.100	0.0982		mg/L		98	75 - 125	1	20	
Selenium	ND		0.100	0.0986		mg/L		99	75 - 125	1	20	
Silver	ND		0.0100	0.0103		mg/L		103	75 - 125	2	20	
Thallium	ND		0.100	0.0996		mg/L		100	75 - 125	0	20	
Vanadium	ND		0.100	0.0975		mg/L		97	75 - 125	1	20	
Zinc	ND		0.100	0.0972		mg/L		97	75 - 125	1	20	

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 705-13153/1-A**

**Matrix: Water**

**Analysis Batch: 13378**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 13153**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Mercury	ND		0.00020	mg/L		09/23/24 14:31	09/23/24 18:23	1

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# QC Sample Results

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

## **Method: 7470A - Mercury (CVAA) (Continued)**

**Lab Sample ID: LCS 705-13153/2-A**

**Matrix: Water**

**Analysis Batch: 13378**

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec		Limits
	Added						%Rec	Limits	
Mercury	0.00400		0.00396		mg/L	99	80 - 120		

**Lab Sample ID: 705-7594-2 MS**

**Matrix: Water**

**Analysis Batch: 13378**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec		Limits
	Result	Qualifier	Added	Result	Qualifier			%Rec	Limits	
Mercury	ND		0.00400	0.00357		mg/L	89	75 - 125		

**Lab Sample ID: 705-7594-2 MSD**

**Matrix: Water**

**Analysis Batch: 13378**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec	Limits		
Mercury	ND		0.00400	0.00372		mg/L	93	75 - 125		4	20

## Accreditation/Certification Summary

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

### Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

1

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## Method Summary

Client: Oasis Consulting Services  
Project/Site: Gun Club Rd LF Second Event

Job ID: 705-7594-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ATL
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
7470A	Mercury (CVAA)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
5030B	Purge and Trap	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL
8011	Microextraction	SW846	EET ATL

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

## Sample Summary

Client: Oasis Consulting Services

Job ID: 705-7594-1

Project/Site: Gun Club Rd LF Second Event

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-7594-1	GC-GWA-2R	Water	09/16/24 11:00	09/17/24 13:17
705-7594-2	GC-GWA-2R	Water	09/17/24 09:10	09/17/24 13:17
705-7594-3	GC-GWC-2	Water	09/16/24 13:20	09/17/24 13:17
705-7594-4	GC-GWC-2	Water	09/17/24 08:50	09/17/24 13:17
705-7594-5	GC-GWC-8	Water	09/17/24 10:00	09/17/24 13:17
705-7594-6	TRIP BLANK	Water	09/17/24 00:00	09/17/24 13:17

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**END OF REPORT**

## **APPENDIX C**

### **STATISTICAL EVALUATION DATA**

## Kruskal-Wallis Non-Parametric Test

Parameter: 1,4-Dichlorobenzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GC-GWA-1	3/24/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/28/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	ND<5	127
	4/19/2018	ND<5	127
	10/30/2018	ND<5	127
	3/19/2019	ND<5	127
	10/17/2019	ND<5	127
	3/6/2020	ND<5	127
	9/11/2020	ND<5	127
	3/10/2021	ND<5	127
	8/10/2021	ND<5	127
	2/10/2022	ND<5	127
	8/29/2022	ND<5	127
	3/14/2023	ND<5	127
	9/18/2023	ND<5	127
	2/29/2024	ND<5	127
	9/16/2024	ND<5	127

Rank Sum = 2794

Rank Mean = 127

GC-GWA-3R	9/28/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	ND<5	127
	4/20/2018	ND<5	127
	10/31/2018	ND<5	127
	3/20/2019	ND<5	127
	10/18/2019	ND<5	127
	3/6/2020	ND<5	127
	9/11/2020	ND<5	127
	3/10/2021	ND<5	127
	8/10/2021	ND<5	127
	2/14/2022	ND<5	127
	8/30/2022	ND<5	127
	3/13/2023	ND<5	127
	9/19/2023	ND<5	127
	2/27/2024	ND<5	127
	9/16/2024	ND<5	127

Rank Sum = 2413

Rank Mean = 127

GC-GWA-2R 9/16/2024 ND<5 127

10/7/2024	ND<5	127
10/14/2024	ND<5	127
10/21/2024	ND<5	127

Rank Sum = 508

Rank Mean = 127

Background Rank Sum = 5715

Background Rank Mean = 127

### Compliance Locations

---

Loc. ID	Date	Value	Rank
GC-GWC-1	3/24/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/28/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	4/19/2018	ND<5	127
	10/30/2018	ND<5	127
	3/20/2019	ND<5	127
	10/17/2019	ND<5	127
	10/18/2019	ND<5	127
	3/9/2020	ND<5	127
	9/11/2020	ND<5	127
	3/10/2021	ND<5	127
	8/10/2021	ND<5	127
	2/11/2022	ND<5	127
	8/29/2022	ND<5	127
	3/14/2023	ND<5	127
	9/18/2023	ND<5	127
	2/29/2024	ND<5	127

Rank Sum = 2667

Rank Mean = 127

---

GC-GWC-10	3/24/2014	ND<5	127
GC-GWC-10	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/29/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	ND<5	127
	4/20/2018	ND<5	127
	10/30/2018	ND<5	127
	3/20/2019	ND<5	127
	10/18/2019	ND<5	127
	3/6/2020	ND<5	127
	9/14/2020	ND<5	127
	3/10/2021	ND<5	127
	8/11/2021	ND<5	127
	2/14/2022	ND<5	127
	8/31/2022	ND<5	127
	3/15/2023	ND<5	127
	9/20/2023	ND<5	127
	2/29/2024	ND<5	127

9/16/2024 ND<5 127

Rank Sum = 2794

Rank Mean = 127

---

GC-GWC-2	3/24/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/28/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	ND<5	127
	4/19/2018	ND<5	127
	10/30/2018	ND<5	127
	3/20/2019	ND<5	127
	10/18/2019	ND<5	127
	3/6/2020	ND<5	127
	9/14/2020	ND<5	127
	3/8/2021	ND<5	127
	8/9/2021	ND<5	127
	2/11/2022	ND<5	127
	8/29/2022	ND<5	127
	3/14/2023	ND<5	127
	9/18/2023	ND<5	127
	2/26/2024	ND<5	127
	9/16/2024	ND<5	127

Rank Sum = 2794

Rank Mean = 127

---

GC-GWC-4	3/24/2014	6.2	266
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/28/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	ND<5	127
	4/20/2018	ND<5	127
	10/25/2018	ND<5	127
	3/19/2019	ND<5	127
	10/17/2019	ND<5	127
	3/2/2020	ND<5	127
	9/14/2020	ND<5	127
	3/9/2021	ND<5	127
	8/11/2021	ND<5	127
	2/11/2022	ND<5	127
	8/30/2022	ND<5	127
	3/14/2023	ND<5	127
	9/18/2023	ND<5	127
	2/26/2024	ND<5	127
	9/11/2024	ND<5	127

Rank Sum = 2933

Rank Mean = 133.318

---

GC-GWC-5	3/24/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127

9/29/2015	ND<5	127
3/28/2016	ND<5	127
9/26/2016	ND<5	127
3/22/2017	ND<5	127
1/23/2018	ND<5	127
4/19/2018	ND<5	127
10/25/2018	ND<5	127
3/19/2019	ND<5	127
10/17/2019	ND<5	127
3/2/2020	ND<5	127
9/14/2020	ND<5	127
3/9/2021	ND<5	127
8/11/2021	ND<5	127
2/14/2022	ND<5	127
8/30/2022	ND<5	127
3/15/2023	ND<5	127
9/18/2023	ND<5	127
2/26/2024	ND<5	127
9/11/2024	ND<5	127

Rank Sum = 2794

Rank Mean = 127

---

GC-GWC-6	3/24/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/29/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	ND<5	127
	4/19/2018	ND<5	127
	10/25/2018	ND<5	127
	3/20/2019	ND<5	127
	10/17/2019	ND<5	127
	3/6/2020	ND<5	127
	9/11/2020	ND<5	127
	3/10/2021	ND<5	127
	8/11/2021	ND<5	127
	2/14/2022	ND<5	127
	8/31/2022	ND<5	127
	3/15/2023	ND<5	127
	9/20/2023	ND<5	127
	2/26/2024	ND<5	127
	9/16/2024	ND<5	127

Rank Sum = 2794

Rank Mean = 127

---

GC-GWC-7	3/24/2014	16	291
	9/24/2014	17	299
	3/24/2015	15	286
	9/29/2015	15	287
	3/28/2016	18	306
	9/26/2016	16	292
	3/22/2017	18	307
	1/23/2018	25.4	326
	4/20/2018	20	320
	10/25/2018	18	308

3/20/2019	16	293
10/17/2019	15	288
3/6/2020	16.65	298
9/14/2020	18	309
3/9/2021	15	289
8/10/2021	16	294
2/14/2022	ND<5	127
8/30/2022	16	295
3/14/2023	15	290
9/19/2023	17	300
2/27/2024	19	311
9/16/2024	17	301

Rank Sum = 6417

Rank Mean = 291.682

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GC-GWC-8	3/24/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/29/2015	ND<5	127
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	5.1	255
	4/20/2018	ND<5	127
	10/31/2018	ND<5	127
	3/20/2019	ND<5	127
	10/18/2019	ND<5	127
	3/6/2020	ND<5	127
	9/14/2020	ND<5	127
	3/9/2021	ND<5	127
	8/10/2021	ND<5	127
	2/15/2022	ND<5	127
	8/31/2022	ND<5	127
	3/14/2023	ND<5	127
	9/20/2023	ND<5	127
	2/29/2024	ND<5	127
	9/17/2024	ND<5	127

Rank Sum = 2922

Rank Mean = 132.818

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GC-GWC-9	3/24/2014	6	263
	9/24/2014	ND<5	127
	3/24/2015	5.1	256
	9/29/2015	ND<5	127
	3/28/2016	7.7	275
	9/26/2016	ND<5	127
	3/22/2017	6.9	272
	1/23/2018	8.5	279
	4/20/2018	8.7	280
	10/31/2018	5.2	258
	3/20/2019	6.4	267
	10/18/2019	7	273
	3/6/2020	5.49	260
	9/14/2020	6	264
	3/10/2021	5.4	259
	8/10/2021	6.6	269
	2/15/2022	ND<5	127

8/31/2022	7.9	277
3/14/2023	6.6	270
9/20/2023	7.8	276
2/27/2024	7.4	274
9/16/2024	6.7	271

Rank Sum = 5351

Rank Mean = 243.227

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GC-GWC-11	3/25/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/29/2015	ND<5	127
	3/29/2016	ND<5	127
	9/26/2016	5.9	262
	3/23/2017	ND<5	127
	1/23/2018	5.1	257
	4/20/2018	ND<5	127
	10/25/2018	ND<5	127
	3/20/2019	ND<5	127
	10/17/2019	ND<5	127
	3/6/2020	3.12	254
	9/14/2020	8.3	278
	3/10/2021	ND<5	127
	8/10/2021	9	281
	2/14/2022	ND<5	127
	8/31/2022	10	282
	3/15/2023	6.4	268
	9/19/2023	12	284
	2/29/2024	11	283
	9/11/2024	12	285

Rank Sum = 4258

Rank Mean = 193.545

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GC-GWC-12	3/25/2014	ND<5	127
	9/24/2014	ND<5	127
	3/24/2015	ND<5	127
	9/29/2015	ND<5	127
	3/29/2016	ND<5	127
	9/26/2016	ND<5	127
	3/23/2017	ND<5	127
	1/23/2018	ND<5	127
	4/20/2018	ND<5	127
	10/25/2018	ND<5	127
	3/20/2019	ND<5	127
	10/17/2019	ND<5	127
	3/6/2020	ND<0	127
	9/14/2020	ND<5	127
	3/10/2021	ND<5	127
	8/10/2021	ND<5	127
	2/11/2022	ND<5	127
	8/31/2022	ND<5	127
	3/15/2023	ND<5	127
	9/19/2023	ND<5	127
	2/29/2024	ND<5	127
	9/11/2024	ND<5	127

Rank Sum = 2794

Rank Mean = 127

---

GC-GWC-7D	3/25/2014	20	321
	9/25/2014	21	323
	3/24/2015	24	325
	9/29/2015	20	322
	3/28/2016	19	312
	9/26/2016	19	313
	3/23/2017	19	314
	1/23/2018	27.1	327
	4/20/2018	23	324
	10/25/2018	17	302
	3/20/2019	19	315
	10/17/2019	17	303
	3/6/2020	19.08	319
	9/11/2020	19	316
	3/9/2021	17	304
	8/10/2021	18	310
	2/14/2022	ND<5	127
	8/30/2022	16	296
	3/15/2023	16	297
	9/19/2023	19	317
	2/27/2024	19	318
	9/16/2024	17	305

Rank Sum = 6710

Rank Mean = 305

---

GC-GWC-3R	9/28/2015	6.1	265
	3/28/2016	ND<5	127
	9/26/2016	ND<5	127
	3/22/2017	ND<5	127
	1/23/2018	5.5	261
	4/19/2018	ND<5	127
	10/30/2018	ND<5	127
	3/19/2019	ND<5	127
	10/18/2019	ND<5	127
	3/6/2020	ND<5	127
	9/14/2020	ND<5	127
	3/9/2021	ND<5	127
	8/10/2021	ND<5	127
	2/14/2022	ND<5	127
	8/30/2022	ND<5	127
	3/14/2023	ND<5	127
	9/18/2023	ND<5	127
	2/27/2024	ND<5	127
	9/11/2024	ND<5	127

Rank Sum = 2685

Rank Mean = 141.316

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#### Calculation Results:

Kruskal-Wallis H Statistic = 139.423

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 259.702

95% Confidence comparison value is 22.362 at 13 degrees of freedom

**139.423 > 22.362 indicating a significant group difference at 5% significance level**

**259.702 > 22.362 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 127

Well	Mean Rank	Dif from Bkg	Critical Value
GC-GWC-1	127	0	58.1232
GC-GWC-10	127	0	57.2155
GC-GWC-2	127	0	57.2155
GC-GWC-4	133.318	6.31818	57.2155
GC-GWC-5	127	0	57.2155
GC-GWC-6	127	0	57.2155
<b>GC-GWC-7</b>	<b>291.682</b>	<b>164.682</b>	<b>57.2155</b>
GC-GWC-8	132.818	5.81818	57.2155
<b>GC-GWC-9</b>	<b>243.227</b>	<b>116.227</b>	<b>57.2155</b>
<b>GC-GWC-11</b>	<b>193.545</b>	<b>66.5455</b>	<b>57.2155</b>
GC-GWC-12	127	0	57.2155
<b>GC-GWC-7D</b>	<b>305</b>	<b>178</b>	<b>57.2155</b>
GC-GWC-3R	141.316	14.3158	60.1729

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### Individual Well Comparisons at Groupwise 5% Significance Level

(0.384615% Significance Level per comparison)

0.384615% Z score is 2.74777

Mean background rank is 127

Well	Mean Rank	Dif from Bkg	Critical Value
GC-GWC-1	127	0	68.6524
GC-GWC-10	127	0	67.5802
GC-GWC-2	127	0	67.5802
GC-GWC-4	133.318	6.31818	67.5802
GC-GWC-5	127	0	67.5802
GC-GWC-6	127	0	67.5802
<b>GC-GWC-7</b>	<b>291.682</b>	<b>164.682</b>	<b>67.5802</b>
GC-GWC-8	132.818	5.81818	67.5802
<b>GC-GWC-9</b>	<b>243.227</b>	<b>116.227</b>	<b>67.5802</b>
GC-GWC-11	193.545	66.5455	67.5802
GC-GWC-12	127	0	67.5802
<b>GC-GWC-7D</b>	<b>305</b>	<b>178</b>	<b>67.5802</b>
GC-GWC-3R	141.316	14.3158	71.0733

## Non-Parametric Prediction Interval

### Inter-Well Comparison

Parameter: 1,4-Dichlorobenzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 77.37%

Number of comparisons = 13

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 45

**Maximum Background Value = 5**

Confidence Level = 84.9%

False Positive Rate = 15.1%

---

Location	Date	Count	Mean	Significant
GC-GWC-1	2/29/2024	1	5	FALSE
GC-GWC-10	9/16/2024	1	5	FALSE
GC-GWC-2	9/16/2024	1	5	FALSE
GC-GWC-4	9/11/2024	1	5	FALSE
GC-GWC-5	9/11/2024	1	5	FALSE
GC-GWC-6	9/16/2024	1	5	FALSE
<b>GC-GWC-7</b>	<b>9/16/2024</b>	<b>1</b>	<b>17</b>	<b>TRUE</b>
GC-GWC-8	9/17/2024	1	5	FALSE
<b>GC-GWC-9</b>	<b>9/16/2024</b>	<b>1</b>	<b>6.7</b>	<b>TRUE</b>
<b>GC-GWC-11</b>	<b>9/11/2024</b>	<b>1</b>	<b>12</b>	<b>TRUE</b>
GC-GWC-12	9/11/2024	1	5	FALSE
<b>GC-GWC-7D</b>	<b>9/16/2024</b>	<b>1</b>	<b>17</b>	<b>TRUE</b>
GC-GWC-3R	9/11/2024	1	5	FALSE

## Kruskal-Wallis Non-Parametric Test

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GC-GWA-1	3/25/2014	27.5	56
	9/25/2014	26.1	49
	3/25/2015	22.5	35
	9/29/2015	26.8	52
	3/29/2016	27.4	54
	9/27/2016	29.8	63
	3/22/2017	23.1	39
	1/23/2018	22.9	36
	4/19/2018	24.9	45
	10/30/2018	26.7	51
	3/19/2019	30.6	65
	10/17/2019	24.5	42
	3/6/2020	26.4099	50
	9/11/2020	27.4	55
	3/10/2021	28	58
	8/10/2021	ND<20	14.5
	2/10/2022	26	47
	8/29/2022	25.5	46
	3/14/2023	20.3	29
	9/18/2023	21.7	32
	2/29/2024	23	37
	9/16/2024	22	33

Rank Sum = 988.5

Rank Mean = 44.9318

GC-GWA-3R	9/29/2015	32.3	69
	3/29/2016	34.5	77
	9/27/2016	33.8	73
	3/23/2017	23.7	40
	1/24/2018	ND<20	14.5
	4/20/2018	ND<20	14.5
	10/31/2018	ND<20	14.5
	3/20/2019	ND<20	14.5
	10/18/2019	26	48
	3/6/2020	24.7145	44
	9/11/2020	64.5	106
	3/10/2021	32.4	70
	8/10/2021	22.2	34
	2/14/2022	23.7	41
	8/30/2022	28.1	60
	3/13/2023	21	31
	9/19/2023	20.8	30
	2/27/2024	23	38
	9/16/2024	ND<20	14.5

Rank Sum = 833.5

Rank Mean = 43.8684

GC-GWA-2R 9/17/2024 28 59

10/8/2024	36	81
10/14/2024	35	79
10/21/2024	40	88

Rank Sum = 307

Rank Mean = 76.75

Background Rank Sum = 2129

Background Rank Mean = 47.3111

### Compliance Locations

---

Loc. ID	Date	Value	Rank
GC-GWC-7	3/24/2014	145	208
	9/25/2014	177	233
	3/25/2015	163	218
	9/30/2015	175	230
	3/29/2016	171	228
	9/27/2016	170	226
	3/23/2017	165	219
	1/24/2018	181	238
	4/20/2018	152	210
	10/25/2018	153	211
	3/20/2019	189	246
	10/17/2019	200	253
	3/6/2020	180.959	237
	9/14/2020	186	242
	3/9/2021	174	229
	8/10/2021	281	259
	2/14/2022	231	257
	8/30/2022	236	258
	3/14/2023	208	254
	9/19/2023	198	252
	2/27/2024	208	255
	9/16/2024	190	248

Rank Sum = 5211

Rank Mean = 236.864

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GC-GWC-9	3/24/2014	124	184
	9/25/2014	75.4	116
	3/25/2015	127	192
	9/30/2015	107	160
	3/29/2016	120	179
	9/27/2016	88.9	133
	3/23/2017	116	174
	1/24/2018	88.1	131
	4/20/2018	125	187
	10/31/2018	125	188
	3/20/2019	124	185
	10/18/2019	127	193
	3/6/2020	113.721	171
	9/14/2020	143	207
	3/10/2021	140	204
	8/10/2021	134	199
	2/15/2022	135	202
	8/31/2022	156	213
	3/14/2023	131	195
	9/20/2023	141	206

2/27/2024	138	203
9/16/2024	140	205

Rank Sum = 4027

Rank Mean = 183.045

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GC-GWC-1	3/25/2014	37.5	84
	9/25/2014	34.9	78
	3/25/2015	29.2	61
	9/29/2015	44.7	92
	3/29/2016	44.1	91
	9/27/2016	73.5	114
	3/23/2017	34.3	76
	4/19/2018	33.8	74
	10/30/2018	80.6	118
	3/20/2019	36.8	83
	10/17/2019	24.5	43
	10/18/2019	57.3	104
	3/9/2020	27.7	57
	9/11/2020	33.1	71
	3/10/2021	40.5	90
	8/10/2021	33.5	72
	2/11/2022	30	64
	8/29/2022	35.3	80
	3/14/2023	72.2	113
	9/18/2023	44.9	93
	2/29/2024	27	53

Rank Sum = 1711

Rank Mean = 81.4762

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GC-GWC-10	3/25/2014	167	221
	9/25/2014	181	239
	3/25/2015	188	245
	9/30/2015	189	247
	3/29/2016	178	235
	9/27/2016	194	249
	3/22/2017	180	236
	1/23/2018	185	241
	4/20/2018	169	224
	10/30/2018	177	234
	3/20/2019	169	225
	10/18/2019	187	244
	3/6/2020	167.216	222
	9/14/2020	157	214
	3/10/2021	195	251
	8/11/2021	175	231
	2/14/2022	168	223
	8/31/2022	216	256
	3/15/2023	165	220
	9/20/2023	184	240
	2/29/2024	176	232
	9/16/2024	170	227

Rank Sum = 5156

Rank Mean = 234.364

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GC-GWC-2	3/25/2014	122	181
	9/25/2014	132	196
	3/25/2015	107	161

9/29/2015	119	177
3/29/2016	124	186
9/27/2016	133	197
3/23/2017	108	163
1/24/2018	125	189
4/19/2018	116	175
10/30/2018	134	200
3/20/2019	155	212
10/18/2019	123	183
3/6/2020	104.161	157
9/14/2020	119	178
3/8/2021	122	182
8/9/2021	112	170
2/11/2022	120	180
8/29/2022	126	190
3/15/2023	194	250
9/18/2023	106	158
2/26/2024	106	159
9/17/2024	160	216

Rank Sum = 4060

Rank Mean = 184.545

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GC-GWC-4	3/25/2014	98.2	146
	9/25/2014	83.3	121
	3/25/2015	90.7	135
	9/29/2015	69.9	110
	3/29/2016	73.9	115
	9/27/2016	94	139
	3/23/2017	81.1	119
	1/24/2018	58.8	105
	4/20/2018	111	168
	10/25/2018	97.8	145
	3/19/2019	85	124
	10/17/2019	115	173
	3/2/2020	134	201
	9/14/2020	101	150
	3/9/2021	114	172
	8/11/2021	98.7	147
	2/11/2022	95.5	140
	8/30/2022	96	141
	3/14/2023	78.9	117
	9/18/2023	84.8	123
	2/26/2024	86.3	127
	9/11/2024	69	109

Rank Sum = 3027

Rank Mean = 137.591

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GC-GWC-5	3/25/2014	30.8	66
	9/25/2014	47.6	96
	3/25/2015	29.2	62
	9/30/2015	68.6	108
	3/29/2016	38.2	85
	9/27/2016	68.5	107
	3/23/2017	49.7	101
	1/24/2018	54.7	102
	4/19/2018	31.7	67
	10/25/2018	47	95

3/19/2019	39.7	87
10/17/2019	48.5	98
3/2/2020	34	75
9/14/2020	49.1	100
3/9/2021	32	68
8/11/2021	48.2	97
2/14/2022	38.8	86
8/30/2022	55.1	103
3/15/2023	36.2	82
9/18/2023	45.5	94
2/26/2024	40.1	89
9/11/2024	49	99

Rank Sum = 1967

Rank Mean = 89.4091

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GC-GWC-6	3/25/2014	96.6	142
	9/25/2014	86.1	125
	3/25/2015	89.3	134
	9/30/2015	86.2	126
	3/29/2016	102	152
	9/27/2016	104	155
	3/22/2017	99.7	149
	1/24/2018	70.6	112
	4/19/2018	92.1	137
	10/25/2018	86.3	128
	3/20/2019	99.1	148
	10/17/2019	96.6	143
	3/6/2020	111.597	169
	9/11/2020	102	153
	3/10/2021	126	191
	8/11/2021	88.4	132
	2/14/2022	81.8	120
	8/31/2022	160	217
	3/15/2023	97.7	144
	9/20/2023	108	164
	2/26/2024	92.3	138
	9/16/2024	110	165

Rank Sum = 3244

Rank Mean = 147.455

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GC-GWC-8	3/25/2014	ND<20	14.5
	9/24/2014	ND<20	14.5
	3/25/2015	ND<20	14.5
	9/29/2015	ND<20	14.5
	3/29/2016	ND<20	14.5
	9/27/2016	ND<20	14.5
	3/22/2017	ND<20	14.5
	1/23/2018	ND<20	14.5
	4/20/2018	ND<20	14.5
	10/31/2018	ND<20	14.5
	3/20/2019	ND<20	14.5
	10/18/2019	ND<20	14.5
	3/6/2020	ND<20	14.5
	9/14/2020	ND<20	14.5
	3/9/2021	ND<20	14.5
	8/10/2021	ND<20	14.5
	2/15/2022	ND<20	14.5

8/31/2022	ND<20	14.5
3/14/2023	ND<20	14.5
9/20/2023	ND<20	14.5
2/29/2024	ND<20	14.5
9/17/2024	ND<20	14.5

Rank Sum = 319

Rank Mean = 14.5

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GC-GWC-3R	9/29/2015	186	243
	3/29/2016	433	261
	9/27/2016	148	209
	3/23/2017	110	166
	1/24/2018	133	198
	4/19/2018	92	136
	10/30/2018	320	260
	3/19/2019	70.3	111
	10/18/2019	157	215
	3/6/2020	107.351	162
	9/14/2020	104	156
	3/9/2021	87.6	130
	8/10/2021	117	176
	2/14/2022	101	151
	8/30/2022	127	194
	3/14/2023	83.3	122
	9/18/2023	103	154
	2/27/2024	87.5	129
	9/11/2024	110	167

Rank Sum = 3340

Rank Mean = 175.789

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### Calculation Results:

Kruskal-Wallis H Statistic = 237.365

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 237.658

95% Confidence comparison value is 18.307 at 10 degrees of freedom

**237.365 > 18.307 indicating a significant group difference at 5% significance level**

**237.658 > 18.307 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 47.3111

Well	Mean Rank	Dif from Bkg	Critical Value
<b>GC-GWC-7</b>	<b>236.864</b>	<b>189.553</b>	<b>45.685</b>
<b>GC-GWC-9</b>	<b>183.045</b>	<b>135.734</b>	<b>45.685</b>
GC-GWC-1	81.4762	34.1651	46.4098
<b>GC-GWC-10</b>	<b>234.364</b>	<b>187.053</b>	<b>45.685</b>
<b>GC-GWC-2</b>	<b>184.545</b>	<b>137.234</b>	<b>45.685</b>
<b>GC-GWC-4</b>	<b>137.591</b>	<b>90.2798</b>	<b>45.685</b>
GC-GWC-5	89.4091	42.098	45.685
<b>GC-GWC-6</b>	<b>147.455</b>	<b>100.143</b>	<b>45.685</b>
GC-GWC-8	14.5	-32.8111	45.685
<b>GC-GWC-3R</b>	<b>175.789</b>	<b>128.478</b>	<b>48.0464</b>

### Individual Well Comparisons at Groupwise 5% Significance Level

(0.5% Significance Level per comparison)

0.5% Z score is 2.57583

Mean background rank is 47.3111

Well	Mean Rank	Dif from Bkg	Critical Value
<b>GC-GWC-7</b>	<b>236.864</b>	<b>189.553</b>	<b>50.5846</b>
<b>GC-GWC-9</b>	<b>183.045</b>	<b>135.734</b>	<b>50.5846</b>
GC-GWC-1	81.4762	34.1651	51.3871
<b>GC-GWC-10</b>	<b>234.364</b>	<b>187.053</b>	<b>50.5846</b>
<b>GC-GWC-2</b>	<b>184.545</b>	<b>137.234</b>	<b>50.5846</b>
<b>GC-GWC-4</b>	<b>137.591</b>	<b>90.2798</b>	<b>50.5846</b>
GC-GWC-5	89.4091	42.098	50.5846
<b>GC-GWC-6</b>	<b>147.455</b>	<b>100.143</b>	<b>50.5846</b>
GC-GWC-8	14.5	-32.8111	50.5846
<b>GC-GWC-3R</b>	<b>175.789</b>	<b>128.478</b>	<b>53.1992</b>

## Non-Parametric Prediction Interval

### Inter-Well Comparison

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 10.728%

Number of comparisons = 10

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 45

**Maximum Background Value = 64.5**

Confidence Level = 84.9%

False Positive Rate = 15.1%

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Location	Date	Count	Mean	Significant
GC-GWC-7	9/16/2024	1	190	TRUE
GC-GWC-9	9/16/2024	1	140	TRUE
GC-GWC-1	2/29/2024	1	27	FALSE
GC-GWC-10	9/16/2024	1	170	TRUE
GC-GWC-2	9/17/2024	1	160	TRUE
GC-GWC-4	9/11/2024	1	69	TRUE
GC-GWC-5	9/11/2024	1	49	FALSE
GC-GWC-6	9/16/2024	1	110	TRUE
GC-GWC-8	9/17/2024	1	20	FALSE
GC-GWC-3R	9/11/2024	1	110	TRUE

## Kruskal-Wallis Non-Parametric Test

Parameter: Chlorobenzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GC-GWA-1	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/28/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/19/2018	ND<5	143
	10/30/2018	ND<5	143
	3/19/2019	ND<5	143
	10/17/2019	ND<5	143
	3/6/2020	ND<5	143
	9/11/2020	ND<5	143
	3/10/2021	ND<5	143
	8/10/2021	ND<5	143
	2/10/2022	ND<5	143
	8/29/2022	ND<5	143
	3/14/2023	ND<5	143
	9/18/2023	ND<5	143
	2/29/2024	ND<5	143
	9/16/2024	ND<5	143

Rank Sum = 3146

Rank Mean = 143

GC-GWA-3R	9/28/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/20/2018	ND<5	143
	10/31/2018	ND<5	143
	3/20/2019	ND<5	143
	10/18/2019	ND<5	143
	3/6/2020	ND<5	143
	9/11/2020	ND<5	143
	3/10/2021	ND<5	143
	8/10/2021	ND<5	143
	2/14/2022	ND<5	143
	8/30/2022	ND<5	143
	3/13/2023	ND<5	143
	9/19/2023	ND<5	143
	2/27/2024	ND<5	143
	9/16/2024	ND<5	143

Rank Sum = 2717

Rank Mean = 143

GC-GWA-2R	9/16/2024	ND<5	143
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10/7/2024	ND<5	143
10/14/2024	ND<5	143
10/21/2024	ND<5	143

Rank Sum = 572

Rank Mean = 143

Background Rank Sum = 6435

Background Rank Mean = 143

### Compliance Locations

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Loc. ID	Date	Value	Rank
GC-GWC-1	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/28/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	4/19/2018	ND<5	143
	10/30/2018	ND<5	143
	3/20/2019	ND<5	143
	10/17/2019	ND<5	143
	10/18/2019	ND<5	143
	3/9/2020	ND<5	143
	9/11/2020	ND<5	143
	3/10/2021	ND<5	143
	8/10/2021	ND<5	143
	2/11/2022	ND<5	143
	8/29/2022	ND<5	143
	3/14/2023	ND<5	143
	9/18/2023	ND<5	143
	2/29/2024	ND<5	143

Rank Sum = 3003

Rank Mean = 143

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GC-GWC-10	3/24/2014	ND<5	143
GC-GWC-10	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/29/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/20/2018	ND<5	143
	10/30/2018	ND<5	143
	3/20/2019	ND<5	143
	10/18/2019	ND<5	143
	3/6/2020	ND<5	143
	9/14/2020	ND<5	143
	3/10/2021	ND<5	143
	8/11/2021	ND<5	143
	2/14/2022	ND<5	143
	8/31/2022	ND<5	143
	3/15/2023	ND<5	143
	9/20/2023	ND<5	143
	2/29/2024	ND<5	143

9/16/2024 ND<5 143

Rank Sum = 3146

Rank Mean = 143

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GC-GWC-2	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/28/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/19/2018	ND<5	143
	10/30/2018	ND<5	143
	3/20/2019	ND<5	143
	10/18/2019	ND<5	143
	3/6/2020	ND<5	143
	9/14/2020	ND<5	143
	3/8/2021	ND<5	143
	8/9/2021	ND<5	143
	2/11/2022	ND<5	143
	8/29/2022	ND<5	143
	3/14/2023	ND<5	143
	9/18/2023	ND<5	143
	2/26/2024	ND<5	143
	9/16/2024	ND<5	143

Rank Sum = 3146

Rank Mean = 143

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GC-GWC-4	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/28/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/20/2018	ND<5	143
	10/25/2018	ND<5	143
	3/19/2019	ND<5	143
	10/17/2019	ND<5	143
	3/2/2020	ND<5	143
	9/14/2020	ND<5	143
	3/9/2021	ND<5	143
	8/11/2021	ND<5	143
	2/11/2022	ND<5	143
	8/30/2022	ND<5	143
	3/14/2023	ND<5	143
	9/18/2023	ND<5	143
	2/26/2024	ND<5	143
	9/11/2024	ND<5	143

Rank Sum = 3146

Rank Mean = 143

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GC-GWC-5	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143

9/29/2015	ND<5	143
3/28/2016	ND<5	143
9/26/2016	ND<5	143
3/22/2017	ND<5	143
1/23/2018	ND<5	143
4/19/2018	ND<5	143
10/25/2018	ND<5	143
3/19/2019	ND<5	143
10/17/2019	ND<5	143
3/2/2020	ND<5	143
9/14/2020	ND<5	143
3/9/2021	ND<5	143
8/11/2021	ND<5	143
2/14/2022	ND<5	143
8/30/2022	ND<5	143
3/15/2023	ND<5	143
9/18/2023	ND<5	143
2/26/2024	ND<5	143
9/11/2024	ND<5	143

Rank Sum = 3146

Rank Mean = 143

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GC-GWC-6	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/29/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/19/2018	ND<5	143
	10/25/2018	ND<5	143
	3/20/2019	ND<5	143
	10/17/2019	ND<5	143
	3/6/2020	ND<5	143
	9/11/2020	ND<5	143
	3/10/2021	ND<5	143
	8/11/2021	ND<5	143
	2/14/2022	ND<5	143
	8/31/2022	ND<5	143
	3/15/2023	ND<5	143
	9/20/2023	ND<5	143
	2/26/2024	ND<5	143
	9/16/2024	ND<5	143

Rank Sum = 3146

Rank Mean = 143

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GC-GWC-7	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/29/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	6.8	323
	4/20/2018	5.8	311
	10/25/2018	ND<5	143

3/20/2019	ND<5	143
10/17/2019	ND<5	143
3/6/2020	ND<5	143
9/14/2020	6	316
3/9/2021	ND<5	143
8/10/2021	ND<5	143
2/14/2022	ND<5	143
8/30/2022	5.1	288
3/14/2023	5.2	290
9/19/2023	5.5	300
2/27/2024	5.6	305
9/16/2024	5.6	306

Rank Sum = 4441

Rank Mean = 201.864

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GC-GWC-8	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/29/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/20/2018	ND<5	143
	10/31/2018	ND<5	143
	3/20/2019	ND<5	143
	10/18/2019	ND<5	143
	3/6/2020	ND<5	143
	9/14/2020	ND<5	143
	3/9/2021	ND<5	143
	8/10/2021	ND<5	143
	2/15/2022	ND<5	143
	8/31/2022	ND<5	143
	3/14/2023	ND<5	143
	9/20/2023	ND<5	143
	2/29/2024	ND<5	143
	9/17/2024	ND<5	143

Rank Sum = 3146

Rank Mean = 143

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GC-GWC-9	3/24/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/29/2015	ND<5	143
	3/28/2016	5.7	310
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/20/2018	7.1	325
	10/31/2018	ND<5	143
	3/20/2019	5.1	289
	10/18/2019	5.9	315
	3/6/2020	ND<5	143
	9/14/2020	ND<5	143
	3/10/2021	5.4	297
	8/10/2021	5.4	298
	2/15/2022	6	317

8/31/2022	5.2	291
3/14/2023	5.2	292
9/20/2023	5.3	294
2/27/2024	6.5	322
9/16/2024	5.4	299

Rank Sum = 5079

Rank Mean = 230.864

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GC-GWC-11	3/25/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/29/2015	ND<5	143
	3/29/2016	ND<5	143
	9/26/2016	ND<5	143
	3/23/2017	ND<5	143
	1/23/2018	ND<5	143
	4/20/2018	ND<5	143
	10/25/2018	ND<5	143
	3/20/2019	ND<5	143
	10/17/2019	ND<5	143
	3/6/2020	1.2	286
	9/14/2020	ND<5	143
	3/10/2021	ND<5	143
	8/10/2021	ND<5	143
	2/14/2022	ND<5	143
	8/31/2022	ND<5	143
	3/15/2023	ND<5	143
	9/19/2023	ND<5	143
	2/29/2024	ND<5	143
	9/11/2024	ND<5	143

Rank Sum = 3289

Rank Mean = 149.5

---

GC-GWC-12	3/25/2014	ND<5	143
	9/24/2014	ND<5	143
	3/24/2015	ND<5	143
	9/29/2015	ND<5	143
	3/29/2016	ND<5	143
	9/26/2016	ND<5	143
	3/23/2017	ND<5	143
	1/23/2018	ND<5	143
	4/20/2018	ND<5	143
	10/25/2018	ND<5	143
	3/20/2019	ND<5	143
	10/17/2019	ND<5	143
	3/6/2020	ND<0	143
	9/14/2020	ND<5	143
	3/10/2021	ND<5	143
	8/10/2021	ND<5	143
	2/11/2022	ND<5	143
	8/31/2022	ND<5	143
	3/15/2023	ND<5	143
	9/19/2023	ND<5	143
	2/29/2024	ND<5	143
	9/11/2024	ND<5	143

Rank Sum = 3146

Rank Mean = 143

---

GC-GWC-7D	3/25/2014	ND<5	143
	9/25/2014	5.3	295
	3/24/2015	6.2	319
	9/29/2015	5.6	307
	3/28/2016	5	287
	9/26/2016	5.5	301
	3/23/2017	5.2	293
	1/23/2018	8	327
	4/20/2018	7.3	326
	10/25/2018	5.6	308
	3/20/2019	5.8	312
	10/17/2019	5.5	302
	3/6/2020	5.81	314
	9/11/2020	6.1	318
	3/9/2021	5.5	303
	8/10/2021	5.8	313
	2/14/2022	5.3	296
	8/30/2022	5.6	309
	3/15/2023	5.5	304
	9/19/2023	6.3	321
	2/27/2024	6.8	324
	9/16/2024	6.2	320

Rank Sum = 6642

Rank Mean = 301.909

---

GC-GWC-3R	9/28/2015	ND<5	143
	3/28/2016	ND<5	143
	9/26/2016	ND<5	143
	3/22/2017	ND<5	143
	1/23/2018	ND<5	143
	4/19/2018	ND<5	143
	10/30/2018	ND<5	143
	3/19/2019	ND<5	143
	10/18/2019	ND<5	143
	3/6/2020	ND<5	143
	9/14/2020	ND<5	143
	3/9/2021	ND<5	143
	8/10/2021	ND<5	143
	2/14/2022	ND<5	143
	8/30/2022	ND<5	143
	3/14/2023	ND<5	143
	9/18/2023	ND<5	143
	2/27/2024	ND<5	143
	9/11/2024	ND<5	143

Rank Sum = 2717

Rank Mean = 143

---

#### Calculation Results:

Kruskal-Wallis H Statistic = 73.656

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 217.949

95% Confidence comparison value is 22.362 at 13 degrees of freedom

**73.656 > 22.362 indicating a significant group difference at 5% significance level**

**217.949 > 22.362 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 143

Well	Mean Rank	Dif from Bkg	Critical Value
GC-GWC-1	143	0	58.1232
GC-GWC-10	143	0	57.2155
GC-GWC-2	143	0	57.2155
GC-GWC-4	143	0	57.2155
GC-GWC-5	143	0	57.2155
GC-GWC-6	143	0	57.2155
<b>GC-GWC-7</b>	<b>201.864</b>	<b>58.8636</b>	<b>57.2155</b>
GC-GWC-8	143	0	57.2155
<b>GC-GWC-9</b>	<b>230.864</b>	<b>87.8636</b>	<b>57.2155</b>
GC-GWC-11	149.5	6.5	57.2155
GC-GWC-12	143	0	57.2155
<b>GC-GWC-7D</b>	<b>301.909</b>	<b>158.909</b>	<b>57.2155</b>
GC-GWC-3R	143	0	60.1729

---

### Individual Well Comparisons at Groupwise 5% Significance Level

(0.384615% Significance Level per comparison)

0.384615% Z score is 2.74777

Mean background rank is 143

Well	Mean Rank	Dif from Bkg	Critical Value
GC-GWC-1	143	0	68.6524
GC-GWC-10	143	0	67.5802
GC-GWC-2	143	0	67.5802
GC-GWC-4	143	0	67.5802
GC-GWC-5	143	0	67.5802
GC-GWC-6	143	0	67.5802
GC-GWC-7	201.864	58.8636	67.5802
GC-GWC-8	143	0	67.5802
<b>GC-GWC-9</b>	<b>230.864</b>	<b>87.8636</b>	<b>67.5802</b>
GC-GWC-11	149.5	6.5	67.5802
GC-GWC-12	143	0	67.5802
<b>GC-GWC-7D</b>	<b>301.909</b>	<b>158.909</b>	<b>67.5802</b>
GC-GWC-3R	143	0	71.0733

## Non-Parametric Prediction Interval

### Inter-Well Comparison

Parameter: Chlorobenzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 87.156%

Number of comparisons = 13

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 45

**Maximum Background Value = 5**

Confidence Level = 84.9%

False Positive Rate = 15.1%

---

Location	Date	Count	Mean	Significant
GC-GWC-1	2/29/2024	1	5	FALSE
GC-GWC-10	9/16/2024	1	5	FALSE
GC-GWC-2	9/16/2024	1	5	FALSE
GC-GWC-4	9/11/2024	1	5	FALSE
GC-GWC-5	9/11/2024	1	5	FALSE
GC-GWC-6	9/16/2024	1	5	FALSE
<b>GC-GWC-7</b>	<b>9/16/2024</b>	<b>1</b>	<b>5.6</b>	<b>TRUE</b>
GC-GWC-8	9/17/2024	1	5	FALSE
<b>GC-GWC-9</b>	<b>9/16/2024</b>	<b>1</b>	<b>5.4</b>	<b>TRUE</b>
GC-GWC-11	9/11/2024	1	5	FALSE
GC-GWC-12	9/11/2024	1	5	FALSE
<b>GC-GWC-7D</b>	<b>9/16/2024</b>	<b>1</b>	<b>6.2</b>	<b>TRUE</b>
GC-GWC-3R	9/11/2024	1	5	FALSE

## Poisson Prediction Limit (Inter-Well)

Parameter: Chloroform

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Recent Dates = 1

Poisson Count of 45 background Samples = 225

99% t-test = 2.41414

95% t-test = 1.68023

---

### Well: GC-GWC-1

Number of comparisons = 1

Future Samples (k) = 1

c = 0.0222222

99% Prediction Limit (Tk) = 10.523

95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

### Well: GC-GWC-10

Number of comparisons = 1

Future Samples (k) = 1

c = 0.0222222

99% Prediction Limit (Tk) = 10.523

95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

### Well: GC-GWC-2

Number of comparisons = 1

Future Samples (k) = 1

c = 0.0222222

99% Prediction Limit (Tk) = 10.523

95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

### Well: GC-GWC-4

Number of comparisons = 1

Future Samples (k) = 1

c = 0.0222222

99% Prediction Limit (Tk) = 10.523

95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	12	TRUE	TRUE

---

### Well: GC-GWC-5

Number of comparisons = 1  
Future Samples (k) = 1  
 $c = 0.0222222$   
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-6

Number of comparisons = 1  
Future Samples (k) = 1  
 $c = 0.0222222$   
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-7

Number of comparisons = 1  
Future Samples (k) = 1  
 $c = 0.0222222$   
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-8

Number of comparisons = 1  
Future Samples (k) = 1  
 $c = 0.0222222$   
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-9

Number of comparisons = 1  
Future Samples (k) = 1  
 $c = 0.0222222$   
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-11

Number of comparisons = 1

Future Samples (k) = 1  
c = 0.0222222  
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-12

Number of comparisons = 1  
Future Samples (k) = 1  
c = 0.0222222  
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-7D

Number of comparisons = 1  
Future Samples (k) = 1  
c = 0.0222222  
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

#### Well: GC-GWC-3R

Number of comparisons = 1  
Future Samples (k) = 1  
c = 0.0222222  
99% Prediction Limit (Tk) = 10.523  
95% Prediction Limit (Tk) = 8.83012

Samples	Sum	95 %tile	99 %tile
1	5	FALSE	FALSE

---

## **APPENDIX D**

## **TIME-SERIES GRAPHS**

