Remedial Investigation Report
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, North Carolina
Task Order 2900 RI-17
S&ME Project No. 23050459

PREPARED FOR:

North Carolina Department of Environmental Quality
Division of Waste Management – Special Remediation Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

PREPARED BY:

S&ME, Inc.
3201 Spring Forest Road
Raleigh, NC 27616

January 12, 2026

January 12, 2026

North Carolina Department of Environmental Quality
Division of Waste Management – Special Remediation Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Ms. Analee Thornburg via email: analee.thornburg@deq.nc.gov
Project Manager

Reference: **Remedial Investigation Report – Offsite Soil Gas**
Cumberland County/Cliffdale Landfill
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
NCDEQ ID No. NCD98052900
NCDEQ Task Order 2900RI-17
S&ME Project No. 23050459

Dear Ms. Thornburg:

S&ME, Inc. (S&ME) is submitting this report to NCDEQ to summarize the results of the offsite soil gas investigation phase remedial investigation activities conducted at the above-referenced site in Fayetteville, North Carolina. S&ME completed this investigation in general conformance with S&ME 230504591I, dated August 12, 2025, between NCDEQ and S&ME. The attached report includes the results of the following tasks:

- Offsite Soil Gas Probe and Implant Installation
- Offsite Soil Gas Screening and Sampling

We appreciate the opportunity to provide environmental consulting services to NCDEQ. Please contact us if you have any questions about the information included in this report.

Sincerely,

S&ME, Inc.

Brandon Governo, PG
Staff Geologist
brandongoverno@smeinc.com

Thomas Raymond, P. E., PMP
Principal Engineer/Project Manager
traymond@smeinc.com

Attachment: Remedial Investigation Report

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1.0 Summary of Current Investigation

S&ME completed the scope of services listed below for this investigation in general conformance with S&ME Proposal No. 230504591I, dated August 12, 2025, for Task Order 2900RI-15, 16 and 17:

- Installed 41 additional offsite soil gas probes and implants;
- Field-screened and sampled 60 offsite landfill gas probes and implants for laboratory analysis;
- Prepared this report.

S&ME's services were performed in general accordance with the North Carolina Department of Environmental Quality (NCDEQ), *Guidelines for Addressing Pre-Regulatory Landfills and Dumps* (March 2022) and S&ME's approved *Standard Operating Procedures and Quality Assurance (SOP/QA) Manual (July 2010)*, previously approved by NCDEQ.

2.0 Landfill Gas Assessment

2.1 Soil Gas Probe and Implant Installation

2.1.1 Offsite Residential Property Visits and Installations

From September 8 through 23, 2025, S&ME personnel visited the 30 properties that submitted property access agreements to S&ME. Residents were briefed on the installation and sampling process.

From September 8 through 23, 2025, S&ME personnel installed 38 soil gas probes (SGPs) and 3 soil gas implants (SGIs) using a stainless-steel hand auger with a two-inch diameter bucket. SGPs were installed to depths of 4.5 to 10 feet below ground surface (ft-bgs), and SGIs were installed to a depth of 3-4 ft-bgs. Once the total depth of the SGPs were determined, a 1-inch diameter 1 to 5-foot-long section of PVC 0.010-inch slotted screen was installed with PVC well riser casing installed from the top of the well screen up to the ground surface. A sand pack of #2 filter sand was placed in the annulus between the borehole wall and the well screen up to approximately two feet above the top of the well screen. A granular bentonite seal was installed up to approximately two feet above the top of the sand pack for all SGP's.

For the SGIs, an implant was placed at the bottom of the boring, and a sand pack of #2 filter sand was put one foot above the implant. Granular bentonite was then used to seal the boring from the sand pack to the ground surface. The SGP and SGI construction details are presented in **Table 1,** and the location of the SGPs and SGIs is shown in **Figure 1**. The Coordinates of Selected Features are included in **Appendix I.**

2.2 Field Screening Methods

On October 23 and 24, 2025, offsite soil gas probes and implants were screened for landfill gas. **Figure 2** shows the data from the field screening event. Portable meters were used to collect the following parameters at each soil gas probe, soil gas implant and background screening location:

- Landfill Gas Meter – GEM5000 PLUS for the following:
  - methane: 0-100%, +/- 0.3% to 1.5% accuracy
  - hydrogen sulfide: 0-500 parts per million-volume (ppm-v), with +/- 2.0% accuracy
  - carbon dioxide: 0-100%, +/- 0.5% to 1.5% accuracy
  - oxygen: 0-25%, +/- 1.0% accuracy
  - barometric pressure: +/- 14.7 inches mercury from calibration pressure, +/- 1% inches mercury accuracy
- Photo-Ionization Detector (PID) MiniRAE 3000 for total VOCs: 0-15,000 ppm-v, with +/- 0.1 ppm-v resolution over range of 0 to 999.9 ppm-v and +/- 1 ppm-v resolution over range of 1,000 to 15,000 ppm-v.

Each of the meters listed above has an internal pump, which was used to draw air samples from the gas probe through the portable meters. New Teflon tubing was connected from the meters to the soil gas probe cap for sampling.

A thermohygrometer was used to measure ambient air for humidity and temperature. The landfill gas screening forms which summarize the results are included with the field documents in **Appendix II**.

2.3 Landfill Gas Screening Results

2.3.1 Volatile Organic Compounds

Offsite Landfill Gas Screening Results

- VOCs were detected in 6 out of 60 sample locations. VOCs were detected in SGP-31, SGI-34, SGP-50, SGP-50-H, SGP-52 and SGP-52-H. During the screening event, concentrations ranged from 0.2 parts per million by volume (ppm-v) to 2.0 ppm-v.

2.3.2 Methane

Offsite Landfill Gas Screening Results

- During the screening event, methane was detected in 10 of 60 sample locations. See **Figure 2** for detection locations. Concentrations ranged from 2.6% to 38.8% (volume in air), all exceeding the Lower Explosive Limit (LEL) for methane (5%) except SGP-31, SGP-34, and SGP-52.

  The GEM5000 manufacturer specifies an approximate accuracy range of +/- 0.3% of the displayed reading for methane concentrations between 0% and 5%.

2.3.3 Hydrogen Sulfide

Offsite Landfill Gas Screening Results

- Hydrogen Sulfide was detected in 2 of 60 sample locations. Hydrogen Sulfide was detected in SGP-35, and SGP-37. Each having a concentration of 1 ppm-v where Hydrogen Sulfide was detected. The GEM5000 manufacturer specifies an approximate accuracy range of +/- 2.0% of the displayed reading for hydrogen sulfide concentrations between 0 – 500 ppm-v.

The landfill gas screening results are summarized in **Table 2** and shown in **Figures 2**.

2.4 Landfill Gas Sampling

On October 13, 2025, through October 22, 2025, S&ME personnel used batch-certified sampling canisters to collect samples (including duplicate samples) from 68 offsite soil gas probes and implants for laboratory analysis of VOCs by EPA Method TO-15, Methane by EPA Method 3C, and Hydrogen sulfide by TO-15.

2.4.1 Shut-in Testing

Prior to beginning sample collection, S&ME performed a shut-in test and helium leak test in general accordance with the Pre-Regulatory Landfill Guidance document. The shut-in test was performed by attaching the dedicated sampling array (series of dedicated stopcock valves, Teflon® tubing and silicone tubing) to the soil gas probe on one end and to the regulator installed on a batch certified six-liter SILO canister on the other end. An open end of the sample array (three-way stopcock) was connected to a 100 ml/cc dedicated syringe. The syringe was then used to pull vacuum on the sample train (approximately 10" of Hg – indicated on the regulator vacuum gage). Once the vacuum was created the three-way stopcock was closed to seal the sample train. After approximately one minute of the vacuum being held on the sample train, the vacuum was released, and the shut-in test was considered successful.

2.4.2 Helium Leak Testing

To perform the helium leak test, the syringe was replaced by additional Teflon® tubing and was connected to the purge port on the leak testing shroud. Next, a section of Teflon® tubing was then attached to the end of the stopcock valve and fitted through a plastic shroud that was placed overtop the soil gas probe sampling array. S&ME then injected helium gas into the plastic shroud until the concentration reached at least 15% helium, as monitored with a helium detector. The gas probe and sampling array were monitored for leaks by using a calibrated personal pump to purge air from the sampling array into a Tedlar® bag.

The purged air from the sampling array in the Tedlar® bag was then monitored for the presence of helium gas concentration with a helium detector. Per the North Carolina Department of Environmental Quality (NCDEQ) Vapor Intrusion Guidance Document (March 2018), the helium concentrations detected during the leak test shall not exceed 10% of the helium concentration contained in the shroud. Each of the gas probes or soil gas implants, and sampling arrays had a successful leak test.

2.4.3 Purging and Sampling

After successfully passing the leak test, a minimum of three volumes of air were purged from the gas probes and sampling arrays. After purging the sampling array, the ball valve attachment on the T-connector leading to the purge point was closed and the valve on the regulator was opened to allow the collection of the samples into SUMMA canisters.

After collecting the gas samples, the SUMMA canisters were shipped under standard chain-of-custody protocol to Enthalpy Analytical for VOC analysis, including Hydrogen Sulfide by EPA Method TO-15 and Methane by EPA Method 3C. The laboratory reports and chain of custody are in **Appendix III.**

2.5 Landfill Gas Sample Results

Offsite Landfill Gas Sample Results

The laboratory reported detections of multiple volatile organic compounds in the landfill gas samples. The NCDEQ Risk Calculator was used to assess the risk of the soil gas to the indoor air pathway. The Residential Receptor Risk was exceeded at 7 of 60 sample locations. See **Section 3.0** for the Risk Calculator details.

- Methane was detected above the LEL in 5 of 60 sample locations.
- Hydrogen Sulfide was detected in 6 of 60 sample locations.

A summary of the laboratory results is included in **Tables 3,** and the results of the NCDEQ Risk Calculator Residential Vapor Intrusion risk levels are shown in **Figures 3A-D**. The field notes are included in **Appendix II**. The laboratory reports and chain of custody forms are included in **Appendix III**.

3.0 NCDEQ Risk Calculator

NCDEQ's Risk Calculator was used to evaluate environmental exposure risks of multiple contaminants and exposure pathways associated with the Offsite Landfill Gas Samples. The January 2025 version of NCDEQ's Risk Calculator, downloaded from the NCDEQ website, was used.

S&ME used the January 2025 version of NCDEQ's Risk Calculator, downloaded from the NCDEQ website to quantify the risks from different exposure points (landfill gas, groundwater, surface water, and sediment) that contain concentrations of chemicals that potentially cause cancer (carcinogens) and chemicals not known to cause cancer (noncarcinogens). The Risk Calculator was used to show the risks these exposure points pose to park users. Carcinogenic and noncarcinogenic effects are evaluated separately as discussed below.

The risk characterization for carcinogens is expressed in terms of a probability that an individual will develop an excess cancer risk due to exposure to site-related contaminants. The cancer risk is summed across all carcinogenic chemicals and exposure routes (ingestion, dermal, and inhalation) to determine cumulative cancer risks.

The potential for noncancer effects is evaluated by comparing the estimated contaminant exposure to a reference threshold. This threshold represents the exposure below which is unlikely for sensitive

populations to experience adverse health effects. The ratio of exposure to toxicity is referred to as a hazard quotient (HQ). The HQs are summed across all noncarcinogenic chemicals and exposure routes to determine cumulative hazard index (HI). For risk assessment purposes, a residential and non-residential/worker exposure scenario was used for landfill gas, groundwater, and sediment samples, and the recreator/trespasser exposure scenario was used for surface water samples. The Resident Receptor scenario is based upon the assumption that people would live at the park for 350 days per year, 24 hours per day, for 26 years (6 years as a child and 20 years as an adult).

3.1 Landfill Gas Samples

The NCDEQ Risk Calculator was run for each sample location and associated duplicate samples. The risk calculator uses analytical results and generates a Carcinogenic Risk and Hazard Index value. The laboratory results from the following locations exceeded risk:

- Resident Receptor, Soil Gas to Indoor Air Pathway: 7 of 60 sample locations exceeded the Residential Receptor Risk.

Appendix IV contains the NCDEQ Risk Calculator Inputs and Outputs.

4.0 Quality Control

Quality control samples were collected and analyzed as follows:

Soil Gas Duplicates

- One SGP duplicate sample was collected for each day of sampling. Duplicates were taken at SGP-30-H (DUP-1), SGP-59-H (DUP-2), SGP-35-H (DUP-3), SGP-51-H (DUP-4), SGI-52-H (DUP-5), SGP-50-H (DUP-6) SGP-54-H (DUP-7) and SGP-47-H (DUP-8) and analyzed for the same parameters as the record sample. Analytical results of the duplicate samples were within an acceptable relative difference from the record samples.

5.0 Deviation From Work Plan

There were no deviations from the work plan during this project.

6.0 Sole Use Statement

This report is solely intended for use by NCDEQ for the services that were performed in accordance with S&ME Proposal No. 230504591I, dated August 12, 2025. for Task Order 2900RI-15, 16 and 17 as authorized by NCDEQ.

7.0 Certification Acknowledgement

"I certify that to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete."

Thomas P. Raymond / S&ME, Inc.
Name of Environmental Consultant / Company

Jan. 12. 2026

Signature of Environmental Consultant Date

I, _____, a Notary Public of said County and State, do hereby certify that Thomas P. Raymond did personally appear and sign before me this day, produced proper identification in the form of Driver's License was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 12th day of January 2026.

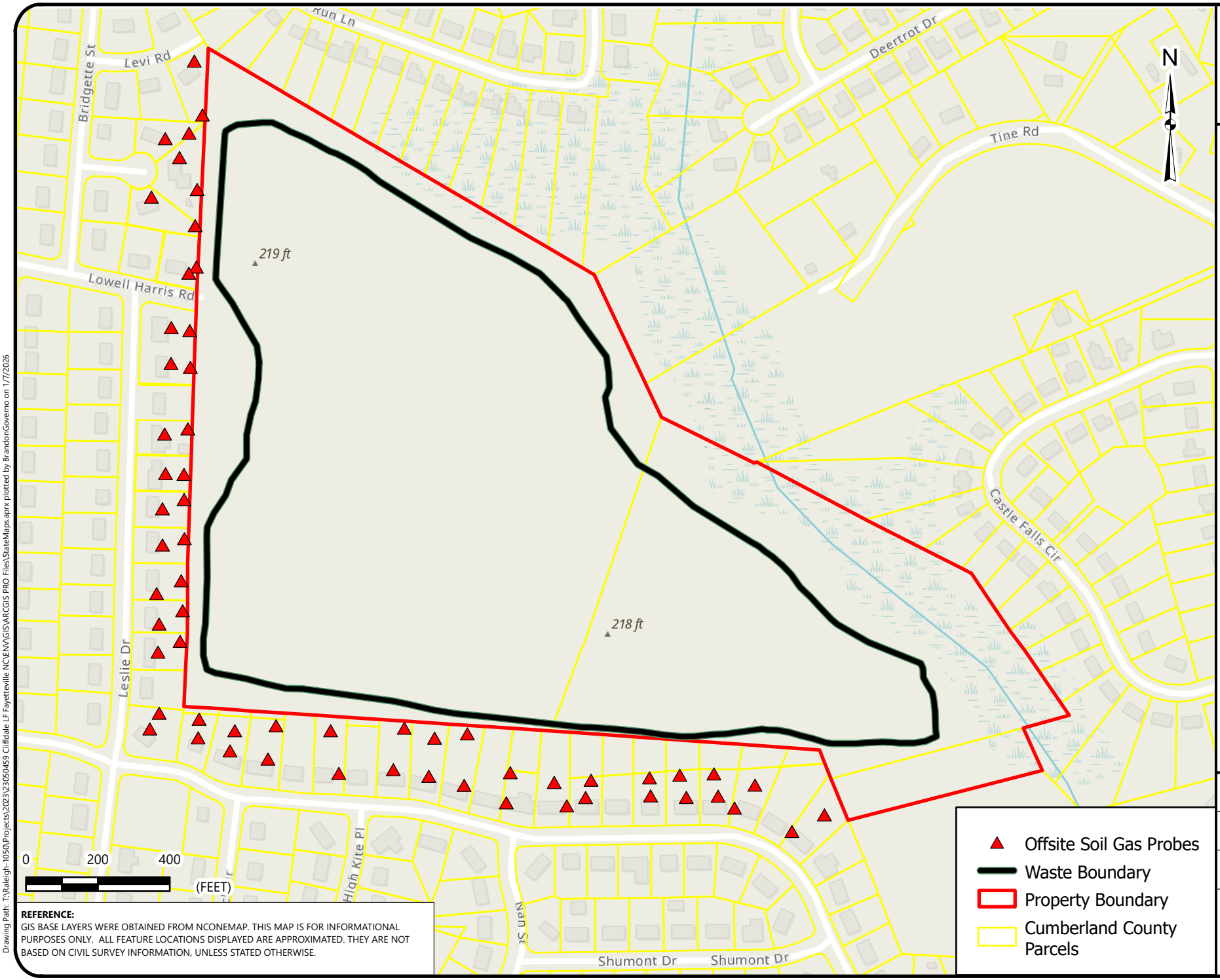
(OFFICIAL SEAL)

Gail L Kluever

Notary Public (signature)

My commission expires: 7/26/2026.

Gail L. Kluever NOTARY PUBLIC Wake County, NC My Comm. Exp. 07-26-2026



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM NCONEMAP. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

Drawing Path: T:\Raleigh-1050\Projects\2023\23050459 Cliffdale LF Fayetteville NC\ENV\GIS\ARCGIS PRO Files\StateMaps.aprx plotted by BrandonGoverno on 1/7/2026

SITE MAP

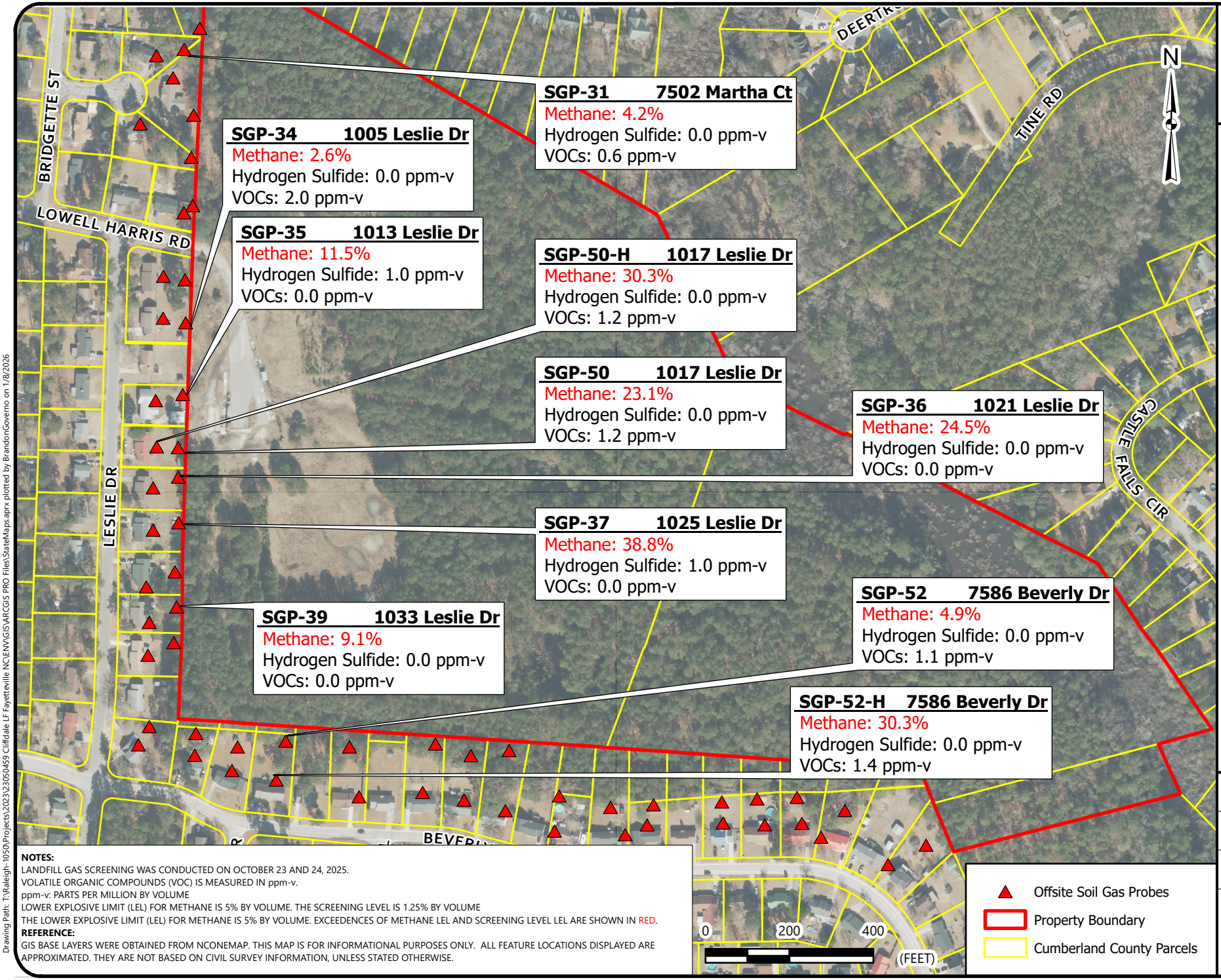
CUMBERLAND COUNTY / CLIFFDALE LANDFILL
NCDEQ ID NCD980502900 TASK ORDER 2900RI-17
7583 LOWELL HARRIS ROAD FAYETTEVILLE, NORTH CAROLINA

SCALE:
1 in = 350 feet

DATE:
1/7/2026

PROJECT NUMBER
23050459

FIGURE NO.
1



NOTES:
LANDFILL GAS SCREENING WAS CONDUCTED ON OCTOBER 23 AND 24, 2025.
VOLATILE ORGANIC COMPOUNDS (VOC) IS MEASURED IN ppm-v.
ppm-v: PARTS PER MILLION BY VOLUME
LOWER EXPLOSIVE LIMIT (LEL) FOR METHANE IS 5% BY VOLUME. THE SCREENING LEVEL IS 1.25% BY VOLUME
THE LOWER EXPLOSIVE LIMIT (LEL) FOR METHANE IS 5% BY VOLUME. EXCEEDENCES OF METHANE LEL AND SCREENING LEVEL LEL ARE SHOWN IN RED.
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM NCONEMAP. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

OFFSITE RESIDENTIAL SOIL GAS SCREENING RESULTS

CUMBERLAND COUNTY / CLIFFDALE LANDFILL
NCDEQ ID NCD980502900 TASK ORDER 2900RI-17
7583 LOWELL HARRIS ROAD FAYETTEVILLE, NORTH CAROLINA

SCALE:
1 in = 300 feet

DATE:
1/8/2026

PROJECT NUMBER
23050459

FIGURE NO.
2

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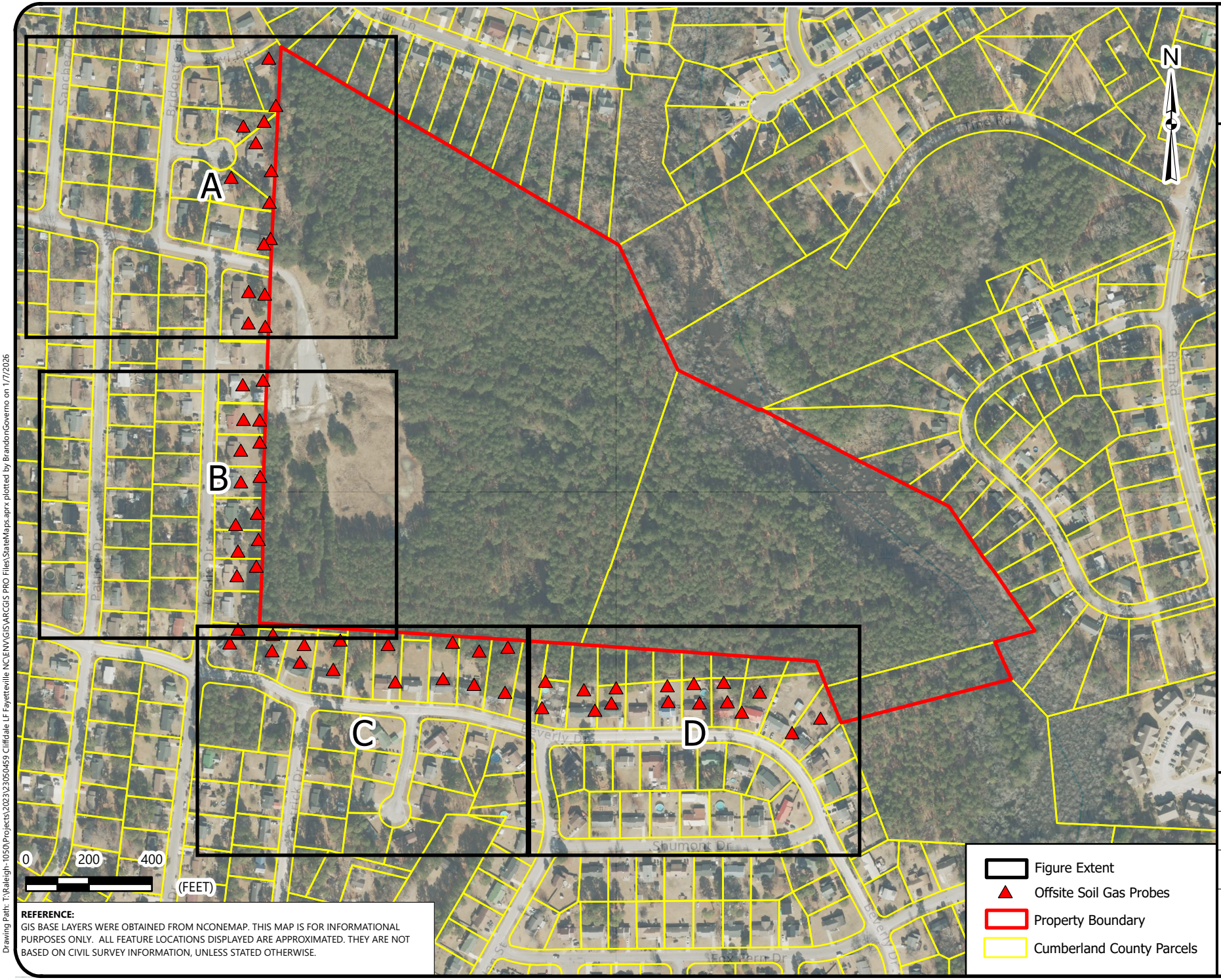


REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM NCONEMAP. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

OFFSITE RESIDENTIAL SOIL GAS RISK ASSESSMENT & LABORATORY METHANE RESULTS LAYOUT

CUMBERLAND COUNTY / CLIFFDALE LANDFILL
NCDEQ ID NCD980502900 TASK ORDER 2900RI-17
7583 LOWELL HARRIS ROAD FAYETTEVILLE, NORTH CAROLINA

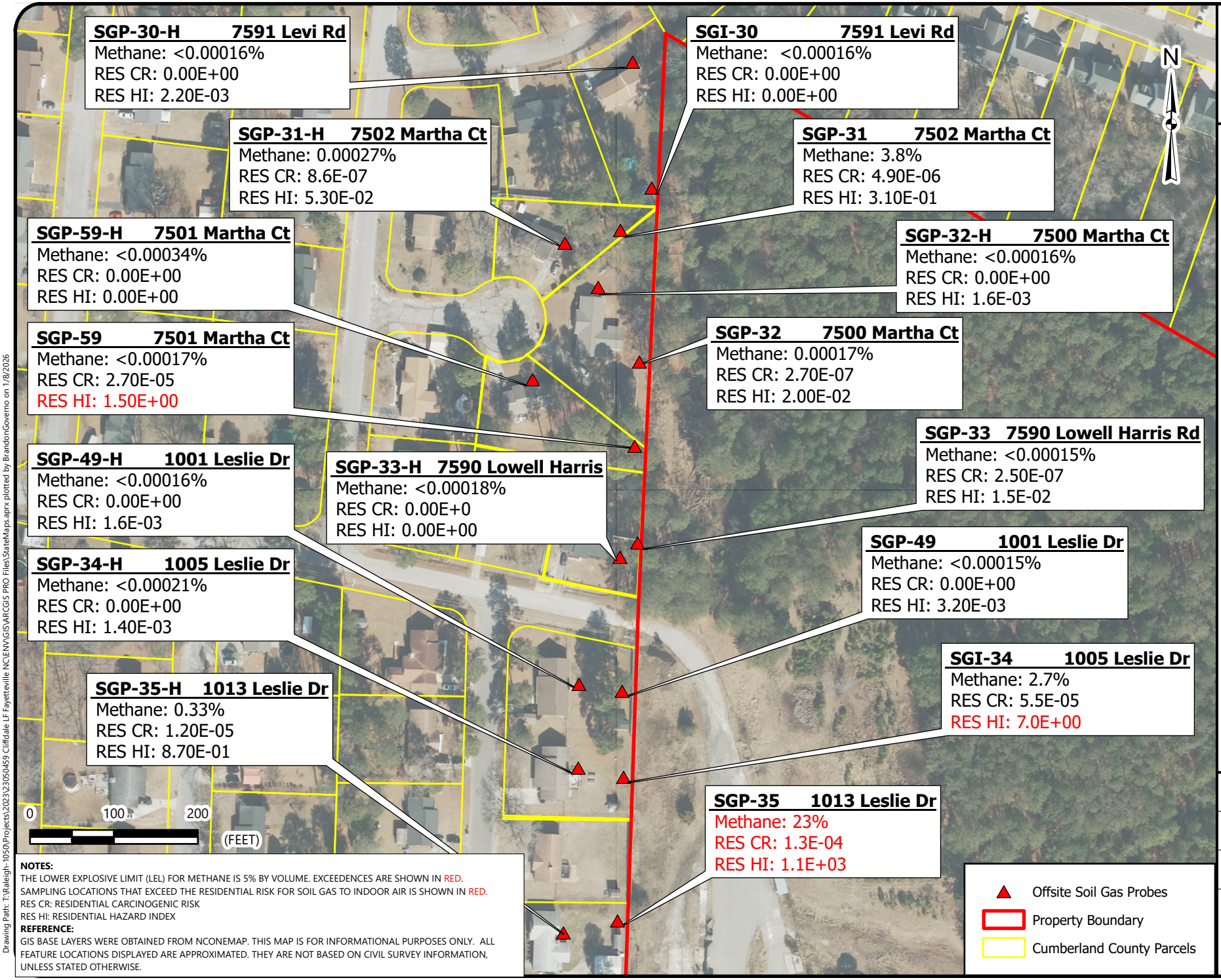
SCALE:
1 in = 400 feet

DATE:
1/7/2026

PROJECT NUMBER
23050459

FIGURE NO.
3

Drawing Path: T:\Raleigh-1050\Projects\2023\23050459 Cliffdale LF Fayetteville NC\ENV\GIS\ARCGIS PRO Files\StateMaps.aprx plotted by BrandonGoverno on 1/7/2026



NOTES:
THE LOWER EXPLOSIVE LIMIT (LEL) FOR METHANE IS 5% BY VOLUME. EXCEEDENCES ARE SHOWN IN RED.
SAMPLING LOCATIONS THAT EXCEED THE RESIDENTIAL RISK FOR SOIL GAS TO INDOOR AIR IS SHOWN IN RED.
RES CR: RESIDENTIAL CARCINOGENIC RISK
RES HI: RESIDENTIAL HAZARD INDEX

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM NCONEMAP. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

OFFSITE RESIDENTIAL SOIL GAS RISK ASSESSMENT & LABORATORY METHANE RESULTS

CUMBERLAND COUNTY / CLIFFDALE LANDFILL
NCDEQ ID NCD980502900 TASK ORDER 2900RI-17
7583 LOWELL HARRIS ROAD FAYETTEVILLE, NORTH CAROLINA

SCALE:
1 in = 150 feet

DATE:
1/8/2026

PROJECT NUMBER
23050459

FIGURE NO.
3A

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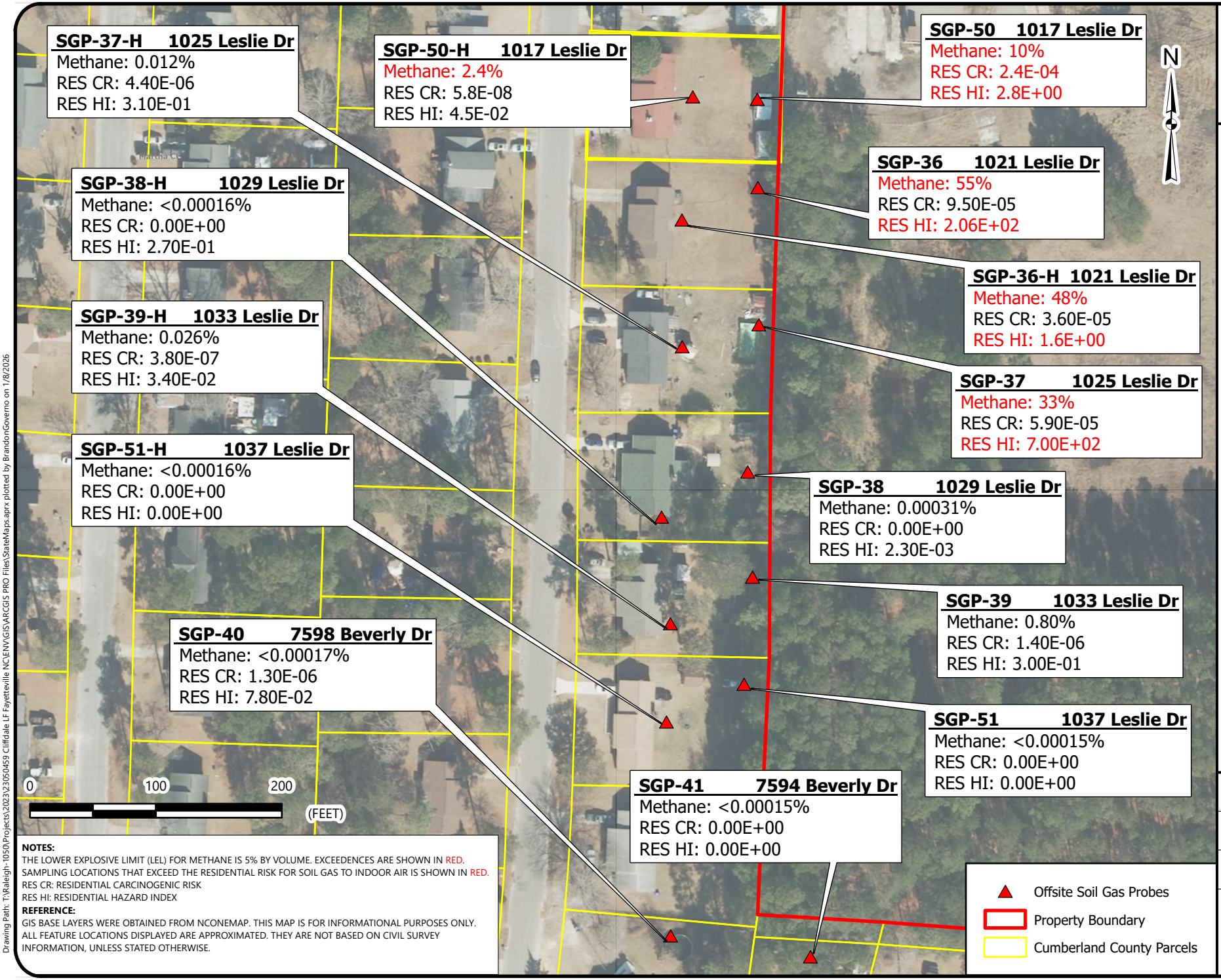

NOTES:
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SAMPLING LOCATIONS THAT EXCEED THE RESIDENTIAL RISK FOR SOIL GAS TO INDOOR AIR IS SHOWN IN RED.
RES CR: RESIDENTIAL CARCINOGENIC RISK
RES HI: RESIDENTIAL HAZARD INDEX

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OFFSITE RESIDENTIAL SOIL GAS RISK ASSESSMENT & LABORATORY METHANE RESULTS

CUMBERLAND COUNTY / CLIFFDALE LANDFILL
NCDEQ ID NCD980502900 TASK ORDER 2900RI-17
7583 LOWELL HARRIS ROAD FAYETTEVILLE, NORTH CAROLINA

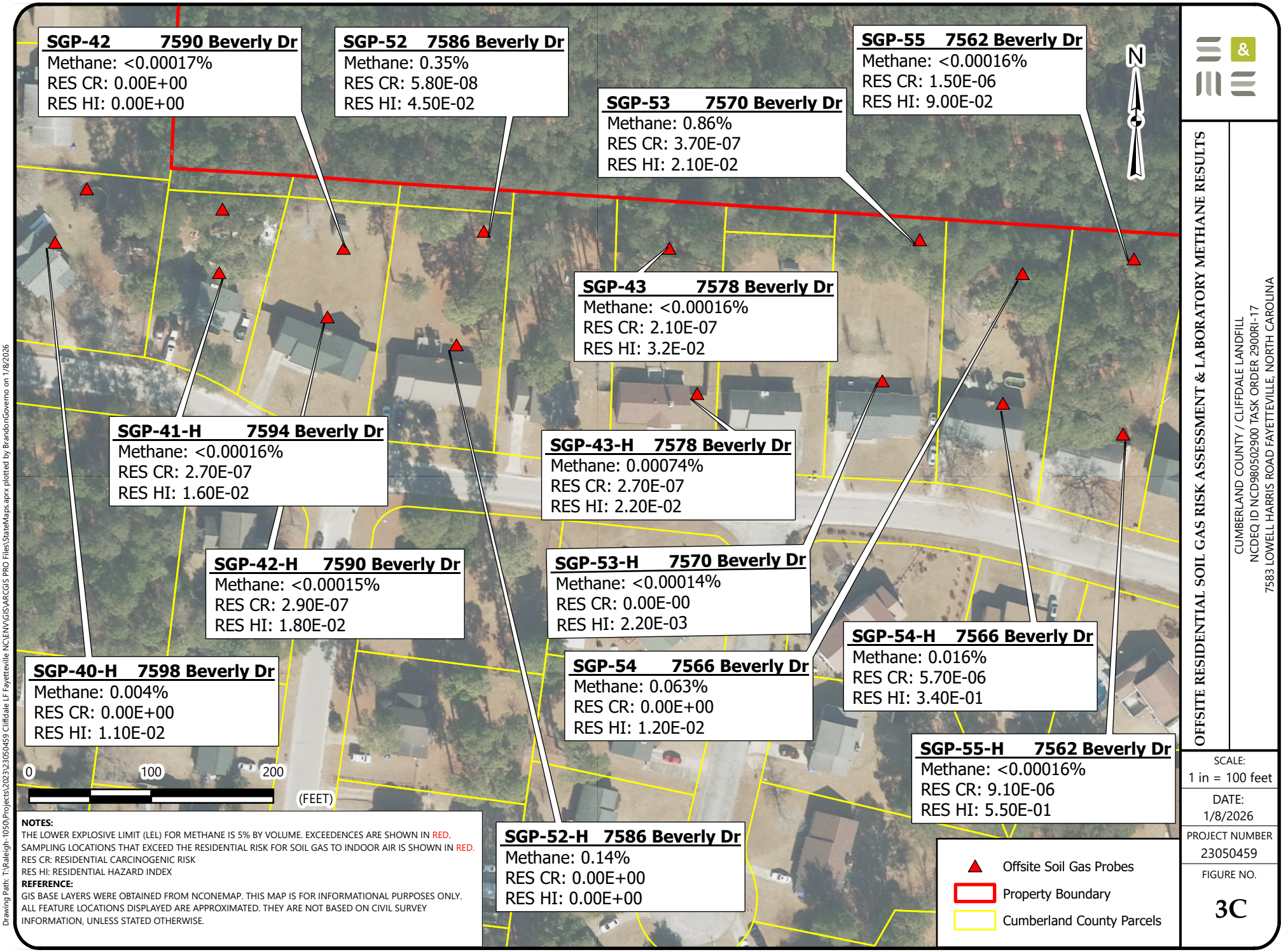
SCALE:
1 in = 100 feet

DATE:
1/8/2026

PROJECT NUMBER
23050459

FIGURE NO.
3B

Drawing Path: T:\Raleigh-1050\Projects\2023\23050459 Cliffdale LF Fayetteville NC\ENV\GIS\ARCGIS PRO Files\StateMaps.aprx plotted by BrandonGovernо on 1/8/2026



NOTES:
THE LOWER EXPLOSIVE LIMIT (LEL) FOR METHANE IS 5% BY VOLUME. EXCEEDENCES ARE SHOWN IN RED.
SAMPLING LOCATIONS THAT EXCEED THE RESIDENTIAL RISK FOR SOIL GAS TO INDOOR AIR IS SHOWN IN RED.
RES CR: RESIDENTIAL CARCINOGENIC RISK
RES HI: RESIDENTIAL HAZARD INDEX

REFERENCE:
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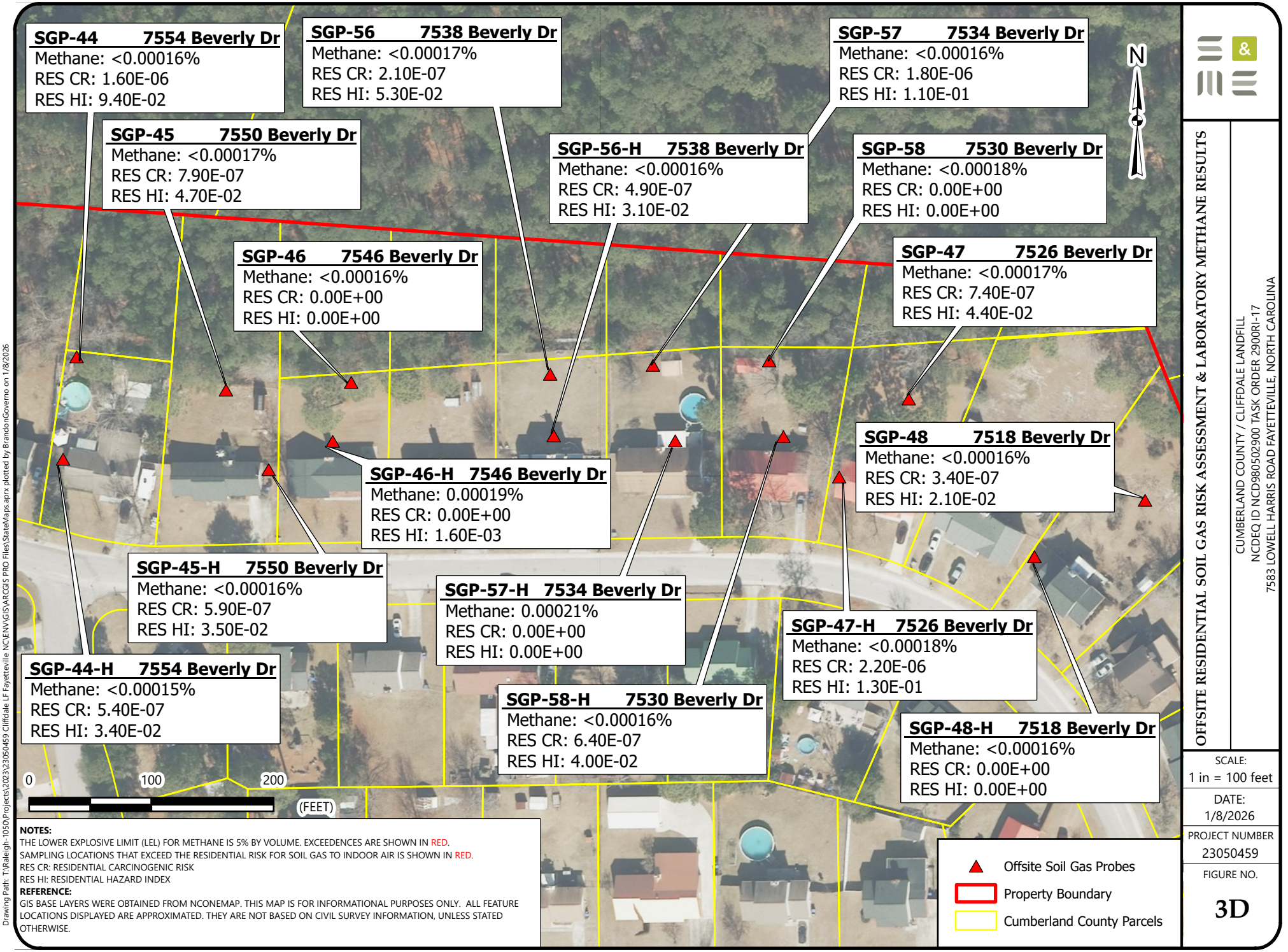
OFFSITE RESIDENTIAL SOIL GAS RISK ASSESSMENT & LABORATORY METHANE RESULTS

CUMBERLAND COUNTY / CLIFFDALE LANDFILL
NCDEQ ID NCD980502900 TASK ORDER 2900RI-17
7583 LOWELL HARRIS ROAD FAYETTEVILLE, NORTH CAROLINA

SCALE: 1 in = 100 feet
DATE: 1/8/2026
PROJECT NUMBER 23050459
FIGURE NO. 3C

Drawing Path: T:\Raleigh-1050\Projects\2023\23050459 Cliffdale LF Fayetteville NC\ENV\GIS\ARCGIS PRO Files\StateMaps.aprx plotted by BrandonGovernо on 1/8/2026



NOTES:
THE LOWER EXPLOSIVE LIMIT (LEL) FOR METHANE IS 5% BY VOLUME. EXCEEDENCES ARE SHOWN IN RED.
SAMPLING LOCATIONS THAT EXCEED THE RESIDENTIAL RISK FOR SOIL GAS TO INDOOR AIR IS SHOWN IN RED.
RES CR: RESIDENTIAL CARCINOGENIC RISK
RES HI: RESIDENTIAL HAZARD INDEX

REFERENCE:
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OFFSITE RESIDENTIAL SOIL GAS RISK ASSESSMENT & LABORATORY METHANE RESULTS

CUMBERLAND COUNTY / CLIFFDALE LANDFILL
NCDEQ ID NCD980502900 TASK ORDER 2900RI-17
7583 LOWELL HARRIS ROAD FAYETTEVILLE, NORTH CAROLINA

SCALE:
1 in = 100 feet

DATE:
1/8/2026

PROJECT NUMBER
23050459

FIGURE NO.
3D

Drawing Path: T:\Raleigh-1050\Projects\2023\23050459 Cliffdale LF Fayetteville NC\ENV\GIS\ARCGIS PRO Files\StateMaps.aprx plotted by BrandonGovernо on 1/8/2026

TABLE 1
Offsite Landfill Gas Probe & Gas Implant Construction Details
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
S&ME Project No. 23050459 Task Order 2900 RI-19

ID	Date Installed	Type	Casing Material	Stickup Height (ft)	Total Depth (ft-bgs)	Casing Interval (ft-bgs)	Screen Interval (ft-bgs)	Grout Interval (ft-bgs)	Bentonite Interval (ft-bgs)	Filter Pack Interval (ft-bgs)
SGI-30	4/1/25	Flushmount-Gas Implant	1/4" tubing	0.0	5.0	NA	4.5 - 5.0	Installed Points by Hand Auger - Bentonite From Top of Filter Pack to Ground Surface	0.0 - 3.0	3.0 - 5.0
SGI-30-H	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-31	4/1/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-31-H	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-32	4/2/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	7.0	0.0 - 5.0	5.0 - 7.0		0.0 - 4.0	4.0 - 7.0
SGP-32-H	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-33	4/3/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-33-H	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	9.0	0.0 - 6.0	6.0 - 9.0		0.0 - 5.0	5.0 - 9.0
SGI-34	3/31/25	Flushmount-Gas Implant	1/4" tubing	0.0	5.5	NA	5.0 - 5.5		0.0 - 3.0	3.0 - 5.5
SGI-34-H	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	9.0	0.0 - 6.0	6.0 - 9.0		0.0 - 5.0	5.0 - 9.0
SGP-35	3/31/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	11.0	0.0 - 6.0	6.0 - 11.0		0.0 - 5.0	5.0 - 11.0
SGP-35-H	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-36	3/31/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	11.0	0.0 - 6.0	6.0 - 11.0		0.0 - 5.0	5.0 - 11.0
SGP-36-H	9/8/25	Flushmount-Gas Implant	1/4" tubing	0.0	4.0	NA	3.5 - 4.0		0.0 - 3.0	3.0 - 4.0
SGP-37	3/31/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	11.0	0.0 - 6.0	6.0 - 11.0		0.0 - 5.0	5.0 - 11.0
SGP-37-H	9/9/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-38	4/1/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	7.0	0.0 - 5.0	5.0 - 7.0		0.0 - 5.0	5.0 - 7.0
SGP-38-H	9/9/25	Flushmount-Gas Implant	1/4" tubing	0.0	4.0	NA	3.5 - 4.0		0.0 - 3.0	3.0 - 4.0
SGP-39	4/1/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-39-H	9/9/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGI-40	4/1/25	Flushmount-Gas Implant	1/4" tubing	0.0	2.5	NA	2.0 - 2.5		0.0 - 1.5	1.5 - 2.5
SGI-40-H	9/10/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	7.0	0.0 - 5.0	5.0 - 7.0		0.0 - 5.0	5.0 - 7.0
SGI-41	4/2/25	Flushmount-Gas Implant	1/4" tubing	0.0	2.5	NA	2.0 - 2.5		0.0 - 1.5	1.5 - 2.5
SGI-41-H	9/10/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	5.0	0.0 - 4.0	4.0 - 5.0		0.0 - 3.0	3.0 - 5.0
SGI-42	4/2/25	Flushmount-Gas Implant	1/4" tubing	0.0	2.0	NA	1.5 - 2.0		0.0 - 1.0	1.0 - 2.0
SGI-42-H	9/10/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	6.0	0.0 - 5.0	5.0 - 6.0		0.0 - 4.0	4.0 - 6.0
SGI-43	4/2/25	Flushmount-Gas Implant	1/4" tubing	0.0	4.0	NA	3.5 - 4.0		0.0 - 3.0	3.0 - 4.0
SGI-43-H	9/10/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	7.5	0.0 - 5.5	5.5 - 7.5		0.0 - 5.0	5.0 - 7.5
SGI-44	4/2/25	Flushmount-Gas Implant	1/4" tubing	0.0	4.0	NA	3.5 - 4.0		0.0 - 2.5	2.5 - 4.0
SGI-44-H	9/10/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-45	4/2/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-45-H	9/10/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.5	0.0 - 6.0	6.0 - 8.5		0.0 - 5.0	5.0 - 8.5
SGI-46	4/3/25	Flushmount-Gas Implant	1/4" tubing	0.0	5.0	NA	4.5 - 5.0		0.0 - 3.0	3.0 - 5.0
SGI-46-H	9/10/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 6.0	6.0 - 10.0		0.0 - 5.0	5.0 - 10.0
SGP-47	4/3/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-47-H	9/11/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	9.0	0.0 - 6.0	6.0 - 9.0		0.0 - 5.0	5.0 - 9.0
SGP-48	4/3/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-48-H	9/12/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	5.5	0.0 - 4.5	4.5 - 5.5		0.0 - 4.0	4.0 - 5.5
SGP-49	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-49-H	9/8/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-50	9/12/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	7.5	0.0 - 5.5	5.5 - 7.5		0.0 - 5.0	5.0 - 7.5
SGP-50-H	9/12/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	6.0	0.0 - 5.0	5.0 - 6.0		0.0 - 4.0	4.0 - 6.0
SGP-51	9/9/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	5.0	0.0 - 4.0	4.0 - 5.0		0.0 - 3.0	3.0 - 5.0
SGP-51-H	9/9/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	5.0	0.0 - 4.0	4.0 - 5.0		0.0 - 3.0	3.0 - 5.0
SGP-52	9/12/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-52-H	9/12/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-53	9/15/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-53-H	9/15/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	10.0	0.0 - 5.0	5.0 - 10.0		0.0 - 4.0	4.0 - 10.0
SGP-54	9/15/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	6.5	0.0 - 5.0	5.0 - 6.5		0.0 - 4.5	4.5 - 6.5
SGP-54-H	9/15/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-55	9/15/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	4.5	0.0 - 3.5	3.5 - 5.0		0.0 - 3.0	3.0 - 5.0
SGP-55-H	9/15/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-56	9/11/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	6.5	0.0 - 5.0	5.0 - 6.5		0.0 - 4.5	4.5 - 6.5
SGP-56-H	9/11/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	9.0	0.0 - 6.0	6.0 - 9.0		0.0 - 5.0	5.0 - 9.0
SGP-57	9/11/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	9.0	0.0 - 6.0	6.0 - 9.0		0.0 - 5.0	5.0 - 9.0
SGP-57-H	9/11/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	9.0	0.0 - 6.0	6.0 - 9.0		0.0 - 5.0	5.0 - 9.0
SGP-58	9/11/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	9.0	0.0 - 6.0	6.0 - 9.0		0.0 - 5.0	5.0 - 9.0
SGP-58-H	9/11/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	8.0	0.0 - 6.0	6.0 - 8.0		0.0 - 5.0	5.0 - 8.0
SGP-59	9/23/25	Flushmount-Gas Implant	1/4" tubing	0.0	3.0	NA	2.5 - 3.0		0.0 - 2.0	2.0 - 3.0
SGP-59-H	9/23/25	Flushmount-Gas Probe	1-in Sch 40 PVC	0.0	5.0	0.0 - 4.0	4.0 - 5.0		0.0 - 3.0	3.0 - 5.0

Notes:
SGI were used in areas of shallow groundwater
ft-bgs: feet below ground surface.
in: inches
N/A: Not Applicable
Offsite Soil Gas Probe and Implant locations are indicated on **Figure 1.**

TABLE 2
Offsite Landfill Gas Field Screening Results
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
S&ME Project No. 23050459 Task Order 2900 RI-19

Field Parameter		Volatile Organic Compounds (ppm-v)	Methane (Volume in Air %)	Methane (% Lower Explosive Limit)	Hydrogen Sulfide (ppm-v)
Sample ID	Screening Date				
SGI-30	10/24/2025	0.0	0.0	0.0	0.0
SGP-30-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-31	10/23/2025	**0.6**	**4.2**	**84.0**	0.0
SGP-31-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-32	10/23/2025	0.0	0.0	0.0	0.0
SGP-32-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-33	10/23/2025	0.0	0.0	0.0	0.0
SGP-33-H	10/23/2025	0.0	0.0	0.0	0.0
SGI-34	10/23/2025	**2.0**	**2.6**	**52.0**	0.0
SGP-34-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-35	10/23/2025	0.0	**11.5**	**>>>**	**1.0**
SGP-35-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-36	10/24/2025	0.0	**24.5**	**>>>**	0.0
SGP-36-H	10/24/2025	0.0	0.0	0.0	0.0
SGP-37	10/23/2025	0.0	**38.8**	**>>>**	**1.0**
SGP-37-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-38	10/23/2025	0.0	0.0	0.0	0.0
SGP-38-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-39	10/23/2025	0.0	**9.1**	**>>>**	0.0
SGP-39-H	10/23/2025	0.0	0.0	0.0	0.0
SGI-40	10/23/2025	0.0	0.0	0.0	0.0
SGP-40-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-41	10/23/2025	0.0	0.0	0.0	0.0
SGP-41-H	10/23/2025	0.0	0.0	0.0	0.0
SGI-42	10/23/2025	0.0	0.0	0.0	0.0
SGP-42-H	10/23/2025	0.0	0.0	0.0	0.0
SGI-43	10/24/2025	0.0	0.0	0.0	0.0
SGP-43-H	10/24/2025	0.0	0.0	0.0	0.0
SGI-44	10/23/2025	0.0	0.0	0.0	0.0
SGP-44-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-45	10/23/2025	0.0	0.0	0.0	0.0
SGP-45-H	10/23/2025	0.0	0.0	0.0	0.0
SGI-46	10/23/2025	0.0	0.0	0.0	0.0
SGP-46-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-47	10/24/2025	0.0	0.0	0.0	0.0
SGP-47-H	10/24/2025	0.0	0.0	0.0	0.0
SGP-48	10/24/2025	0.0	0.0	0.0	0.0
SGP-48-H	10/24/2025	0.0	0.0	0.0	0.0
SGP-49	10/23/2025	0.0	0.0	0.0	0.0
SGP-49-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-50	10/23/2025	**1.2**	**23.1**	**>>>**	0.0
SGP-50-H	10/23/2025	**1.2**	**32.9**	**>>>**	0.0
SGP-51	10/23/2025	0.0	0.0	0.0	0.0
SGP-51-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-52	10/23/2025	**1.1**	**4.9**	**98.0**	0.0
SGP-52-H	10/23/2025	**1.4**	**30.3**	**>>>**	0.0
SGP-53	10/24/2025	0.0	0.0	0.0	0.0
SGP-53-H	10/24/2025	0.0	0.0	0.0	0.0
SGP-54	10/23/2025	0.0	0.0	0.0	0.0
SGP-54-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-55	10/23/2025	0.0	0.0	0.0	0.0
SGP-55-H	10/23/2025	0.0	0.0	0.0	0.0
SGP-56	10/24/2025	0.0	0.0	0.0	0.0
SGP-56-H	10/24/2025	0.0	0.0	0.0	0.0
SGP-57	10/24/2025	0.0	0.0	0.0	0.0
SGP-57-H	10/24/2025	0.0	0.0	0.0	0.0
SGP-58	10/24/2025	0.0	0.0	0.0	0.0
SGP-58-H	10/24/2025	0.0	0.0	0.0	0.0
SGP-59	10/23/2025	0.0	0.0	0.0	0.0
SGP-59-H	10/23/2025	0.0	0.0	0.0	0.0

Notes:
Percent %: Percent methane in air, Lower Explosive Limit for Methane is 5%.
PPM-V: Parts Per Million by Volume in Air
Bold indicates a concentration greater than background concentrations.
Highlighted indicates a concentration exceeding the lower explosive limit for methane
>>>: Greater than 100% LEL for Methane.

TABLE 3
Offsite Landfill Gas Sample Analytical Results Summary
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
S&ME Project No. 23050459 Task Order 2900 RI-17

Analytical Method	Analyte	CAS Number	Sample ID	SGP-30	SGP-30-H	SGP-31	SGP-31-H	SGP-32	SGP-32-H	SGP-33	SGP-33-H	SGP-34	SGP-34-H	SGP-35	SGP-35-H	SGP-36	SGP-36-H	SGP-37	SGP-37-H	SGP-38	SGP-38-H	SGP-39	SGP-39-H
			Address	7591 Levi Rd		7502 Martha Ct		7500 Martha Ct		7590 Lowell Harris		1005 Leslie Dr		1013 Leslie Dr		1021 Leslie Dr		1025 Leslie Dr		1029 Leslie Dr		1033 Leslie Dr	
			Date Collected	10/13/2025	10/13/2025	10/13/2025	10/13/2025	10/13/2025	10/13/2025	10/14/2025	10/14/2025	10/14/2025	10/14/2025	10/15/2025	10/15/2025	10/15/2025	10/15/2025	10/15/2025	10/15/2025	10/15/2025	10/15/2025	10/15/2025	10/15/2025
Volatile Organic Compounds by Method TO-15 (µg/m3)	1,1-Dichloroethane	75-34-3		<3.3	<3.1	<6.5	<3.1	<3.3	<3.3	<3.1	<3.5	**700**	<3.4	**630**	<3.3	<29	**58**	**13**	<3.4	<3.5	<3.2	<3.4	<3.1
	1,1-Dichloroethylene	75-35-4		<3.2	<3.1	<6.4	<3.0	<3.2	<3.2	<3.0	<3.5	<34	<3.3	<32	<3.2	<28	<29	**4.7**	<3.3	<3.4	<3.2	<3.3	<3.0
	1,2-Dichloroethane	107-06-2		<0.66	<0.63	<1.3	<0.62	<0.66	<0.66	<0.62	<0.71	<34	<0.68	<32	<0.66	<29	<30	**4.2**	<0.68	<0.70	<0.65	<0.68	<0.62
	1,2-Dichloropropane	78-87-5		<3.7	<3.6	<7.5	<3.6	<3.7	<3.8	<3.6	<4.0	<39	<3.9	<37	<3.8	<33	<34	**8.4**	<3.9	<4.0	<3.7	<3.8	<3.6
	1,2-Dichlorotetrafluoroethane	76-14-2		<5.7	<5.4	**430**	**29**	**42**	<5.7	<5.4	<6.1	**860**	<5.9	**1600**	**170**	**1600**	**2200**	**1200**	**200**	**8.9**	**110**	**520**	**130**
	1,3,5-Trimethylbenzene	108-67-8		<4.0	<3.8	<7.9	<3.8	<4.0	<4.0	<3.8	<4.3	**41**	<4.1	<39	<4.0	**160**	<36	**5.6**	<4.1	<4.2	<4.0	<4.1	<3.8
	1,4-Dichlorobenzene	106-46-7		<4.9	<4.6	<9.7	<4.6	<4.9	<4.9	<4.6	<5.3	<51	<5.0	**120**	<4.9	**590**	<44	**120**	<5.0	<5.2	<4.8	<5.0	<4.6
	2-Butanone (MEK)	78-93-3		<9.6	<9.1	<19	<9.1	<9.6	<9.7	<9.1	<10	<100	<9.9	**170**	<9.6	<84	<87	<8.8	<9.9	<10	<9.5	<9.8	<9.1
	Acetone	67-64-1		<19	**23**	<38	<18	**23**	<19	<18	<21	<80	**21**	**6500**	<19	<67	**110**	<18	**26**	<20	**30**	<20	**28**
	Benzene	71-43-2		<1.0	<0.99	<2.1	<0.98	<1.0	<1.0	<0.98	<1.1	**170**	<1.1	**310**	**15**	**760**	**360**	**500**	<1.1	<1.1	<1.0	<1.1	<0.98
	Chlorobenzene	108-90-7		<3.7	<3.6	<7.4	<3.5	<3.7	<3.8	<3.5	<4.0	<39	<3.9	<37	<3.8	**170**	**82**	**89**	<3.9	<4.0	<3.7	<3.8	<3.5
	Chloroethane	75-00-3		<8.5	<8.2	<17	<8.1	<8.5	<8.6	<8.1	<9.2	**170**	<8.9	**930**	<8.6	**150**	**95**	<7.9	<8.9	<9.1	<8.5	<8.8	<8.1
	Chloroform	67-66-3		<0.79	<0.76	**20**	**3.5**	**1.1**	<0.80	**1.0**	<0.85	<41	<0.82	<39	**42**	<35	<36	<0.73	**18**	<0.84	<0.79	**5.5**	**1.5**
	Chloromethane	74-87-3		<17	<16	<33	<16	<17	<17	<16	<18	<70	<17	<66	<17	<59	<61	<15	<17	<18	<17	<17	<16
	cis-1,2-Dichloroethylene	156-59-2		<3.2	<3.1	<6.4	<3.0	<3.2	<3.2	<3.0	<3.5	**88**	<3.3	**260**	<3.2	**33**	<29	**32**	<3.3	<3.4	<3.2	<3.3	<3.0
	Cyclohexane	110-82-7		<2.8	<2.7	**29**	<2.6	<2.8	<2.8	<2.6	<3.0	**570**	<2.9	**2000**	**2.9**	**1900**	**140**	**930**	<2.9	<3.0	<2.8	**7.9**	<2.6
	Dichlorodifluoromethane	75-71-8		<4.0	<3.8	**52**	<3.8	**13**	<4.0	<3.8	<4.3	**1300**	<4.2	**910**	**14**	**1500**	**2700**	**1200**	**130**	**8.1**	**82**	**760**	**25**
	Ethanol	64-17-5		<15	**22**	<15	<14	<30	<15	<15	**19**	<18	**27**	<16	**45**	<15	<14	<16	<80	**27**	**30**	**20**	**32**
	Ethylbenzene	100-41-4		<1.4	<1.3	<2.8	<1.3	<1.4	<1.4	<1.3	<1.5	<37	<1.4	<35	<1.4	**36**	<32	**10**	<1.4	<1.5	<1.4	<1.4	<1.3
	Heptane	142-82-5		<3.3	<3.2	<6.6	<3.2	<3.3	<3.4	<3.2	<3.6	**960**	<3.4	**2900**	<3.3	**4000**	<30	**260**	<3.4	<3.5	<3.3	<3.4	<3.2
	Hexane	110-54-3		<2.8	<2.7	**9.8**	<2.7	<2.8	<2.9	<2.7	<3.1	**490**	<3.0	**1500**	**6.4**	**1500**	**400**	**730**	<3.0	<3.0	<2.8	**14**	<2.7
	Isopropylbenzene	98-82-8		<4.0	<3.8	<7.9	<3.8	<4.0	<4.0	<3.8	<4.3	<42	<4.1	<39	<4.0	**200**	**79**	**31**	<4.1	<4.2	<4.0	<4.1	<3.8
	m+p-Xylenes	108-38-3/106-42-3		<7.0	<6.7	<14	<6.7	<7.0	<7.1	<6.7	<7.6	<37	<7.3	<35	<7.1	**36**	<32	**18**	<7.3	<7.5	<7.0	<7.2	<6.7
	o-Xylene	95-47-6		<3.5	<3.4	<7.0	<3.3	<3.5	<3.6	<3.3	<3.8	<37	<3.6	<35	<3.5	<31	<32	**4.3**	<3.6	<3.8	<3.5	<3.6	<3.3
	2-Propanol	67-63-0		<8.0	**15**	<16	**8.7**	<8.0	**11**	<7.6	<8.6	<100	**9.8**	**1400**	<8.0	<87	<90	<7.3	<8.2	<8.5	**9.2**	<8.2	**9.1**
	Tetrachloroethylene (PCE)	127-18-4		<5.5	<5.2	<11	<5.2	<5.5	<5.6	<5.2	<5.9	<57	<5.7	<54	**8.8**	<48	<50	<5.0	**7.6**	<5.9	<5.5	<5.7	**5.3**
	Tetrahydrofuran	109-99-9		<2.4	<2.3	<4.8	<2.3	<2.4	<2.4	<2.3	<2.6	<25	<2.5	<24	<2.4	**97**	<22	<2.2	<2.5	<2.6	<2.4	<2.5	<2.3
	Toluene	108-88-3		<6.1	<5.8	<12	<5.8	<6.1	<6.2	<5.8	<6.6	<32	<6.3	**400**	<6.1	<27	<28	**28**	<6.3	<6.5	<6.1	<6.3	<5.8
	trans-1,2-Dichloroethylene	156-60-5		<3.2	<3.1	<6.4	<3.0	<3.2	<3.2	<3.0	<3.5	<34	<3.3	**240**	<3.2	**67**	<29	**24**	<3.3	<3.4	<3.2	<3.3	<3.0
	Trichloroethylene	79-01-6		<4.4	<4.2	<8.7	<4.1	<4.4	<4.4	<4.1	<4.7	<45	<4.5	**83**	<4.4	**58**	<40	**12**	<4.5	<4.6	<4.3	<4.5	<4.1
	Trichlorofluoromethane	75-69-4		<4.6	<4.4	<9.1	<4.3	<4.6	<4.6	<4.3	<4.9	<47	**8.0**	<45	<4.6	<40	<41	<4.2	<4.7	<4.9	<4.5	<4.7	**7.4**
	Vinyl chloride	75-01-4		<0.21	<0.20	<0.41	<0.20	<0.21	<0.21	<0.20	<0.22	**230**	<0.21	**430**	<0.21	**150**	**29**	<0.19	<0.21	<0.22	<0.20	<0.21	<0.20
ASTM D5504-12 (ug/m3)	Hydrogen Sulfide	7783-06-4		<14	<14	<14	<14	<14	<14	<14	<14	**71.09**	<14	**79450.31**	**15.33**	<14	**27.88**	**48785.28**	<14	<14	**16.73**	<14	<14
NIOSH 6009 (ug/m3)	Mercury	7439-97-6		<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
EPA Method 3C (%)	Methane	74-82-8		<0.00016	<0.00016	**3.8**	**0.00027**	**0.00017**	<0.00016	<0.00015	<0.00018	**2.7**	**0.00021**	**23**	**0.33**	**55**	**48**	**33**	**0.012**	**0.00031**	<0.00016	**0.80**	**0.026**
NCDEQ Risk Calculator Values	**Vapor Intrusion Resident Soil Gas To Indoor Air**	**Cumulative Carcinogenic Risk**		0.00E+00	0.00E+00	4.90E-06	8.60E-07	2.70E-07	0.00E+00	2.50E-07	0.00E+00	5.50E-05	0.00E+00	1.30E-04	1.20E-05	9.50E-05	3.60E-05	5.90E-05	4.40E-06	0.00E+00	0.00E+00	1.40E-06	3.80E-07
		Non-Carcinogenic Hazard Quotiennt		0.00E+00	2.20E-03	3.10E-01	5.30E-02	2.00E-02	1.60E-03	1.50E-02	0.00E+00	7.00E+00	1.40E-03	1.10E+03	8.70E-01	2.06E+02	1.60E+00	7.00E+02	3.10E-01	2.30E-03	2.70E-01	3.00E-01	3.40E-02

Notes:
Concentrations shown in **BOLD** exceed the laboratory detection limits.
Concentrations were not entered into the NCDEQ Risk Calculator (January 2025 Version), Compound not in Calculator.
Exceedes the Lower Explosive Limit (LEL) of methane which is 5% by volume, exceedances of the LEL are highlighted.
Concentrations shown in BOLD exceed the laboratory method detection limit.
NCDEQ Risk Calculator Values shown in red exceed risk.
NA: Not Analyzed

TABLE 3
Offsite Landfill Gas Sample Analytical Results Summary
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
S&ME Project No. 23050459 Task Order 2900 RI-17

Analytical Method	Analyte	CAS Number	Sample ID	SGP-40	SGP-40-H	SGP-41	SGP-41-H	SGP-42	SGP-42-H	SGP-43	SGP-43-H	SGP-44	SGP-44-H	SGP-45	SGP-45-H	SGP-46	SGP-46-H	SGP-47	SGP-47-H	SGP-48	SGP-48-H	SGP-49	SGP-49-H
			Address	7598 Beverly Dr		7594 Beverly Dr		7590 Beverly Dr		7578 Beverly Dr		7554 Beverly Dr		7550 Beverly Dr		7546 Beverly Dr		7526 Beverly Dr		7518 Beverly Dr		1001 Leslie Dr	
			Date Collected	10/16/2025	10/16/2025	10/16/2025	10/16/2025	10/16/2025	10/16/2025	10/20/2025	10/20/2025	10/17/2025	10/17/2025	10/20/2025	10/20/2025	10/20/2025	10/20/2025	10/22/2025	10/22/2025	10/22/2025	10/22/2025	10/14/2025	10/14/2025
Volatile Organic Compounds by Method TO-15 (µg/m3)	1,1-Dichloroethane	75-34-3		<3.4	<3.1	<3.0	<3.2	<3.4	<3.0	<3.3	<3.4	<3.2	<3.0	<3.4	<3.2	<3.2	<3.2	<3.5	<3.7	<3.3	<3.2	<3.0	<3.2
	1,1-Dichloroethylene	75-35-4		<3.3	<3.0	<3.0	<3.2	<3.3	<3.0	<3.3	<3.3	<3.2	<3.0	<3.3	<3.2	<3.1	<3.2	<3.4	<3.6	<3.2	<3.2	<3.0	<3.1
	1,2-Dichloroethane	107-06-2		<0.68	<0.62	<0.61	<0.65	<0.68	<0.61	<0.67	<0.68	<0.65	<0.61	<0.67	<0.64	<0.64	<0.64	<0.70	<0.74	<0.66	<0.65	<0.60	<0.64
	1,2-Dichloropropane	78-87-5		<3.9	<3.5	<3.5	<3.7	<3.9	<3.5	<3.8	<3.8	<3.7	<3.5	<3.8	<3.7	<3.6	<3.7	<4.0	<4.2	<3.7	<3.7	<3.4	<3.6
	1,2-Dichlorotetrafluoroethane	76-14-2		<5.9	**52**	<5.3	<5.6	<5.9	<5.3	**130**	**66**	<5.6	<5.3	<5.8	<5.6	<5.5	<5.6	<6.1	<6.4	<5.7	<5.6	**38**	**34**
	1,3,5-Trimethylbenzene	108-67-8		<4.1	<3.8	<3.7	<4.0	<4.1	<3.7	<4.0	<4.1	<4.0	<3.7	<4.1	<3.9	<3.8	<3.9	<4.3	<4.5	<4.0	<4.0	<3.7	<3.9
	1,4-Dichlorobenzene	106-46-7		<5.0	<4.6	<4.5	<4.8	<5.0	<4.5	<5.0	<5.0	<4.8	<4.5	<5.0	<4.8	<4.7	<4.8	<5.2	<5.5	<4.9	<4.8	<4.5	<4.8
	2-Butanone (MEK)	78-93-3		<9.9	<9.0	<8.9	<9.5	<9.9	<8.9	<9.7	<9.8	<9.5	<8.9	<9.8	<9.4	<9.2	<9.4	<10	<11	<9.6	<9.5	<8.8	<9.3
	Acetone	67-64-1		<20	**19**	<18	**19**	<20	**25**	<20	<20	<19	**20**	<20	<19	<19	**30**	**22**	**29**	<19	**35**	**20**	**19**
	Benzene	71-43-2		<1.1	<0.98	<0.96	<1.0	<1.1	<0.96	<1.0	<1.1	<1.0	<0.96	<1.1	<1.0	<1.0	<1.0	<1.1	<1.2	<1.0	<1.0	<0.95	<1.0
	Chlorobenzene	108-90-7		<3.9	<3.5	<3.5	<3.7	<3.9	<3.5	<3.8	<3.8	<3.7	<3.5	<3.8	<3.6	<3.6	<3.6	<4.0	<4.2	<3.7	<3.7	<3.4	<3.6
	Chloroethane	75-00-3		<8.9	<8.1	<8.0	<8.5	<8.9	<8.0	<8.7	<8.8	<8.5	<8.0	<8.8	<8.4	<8.3	<8.4	<9.2	<9.7	<8.5	<8.5	<7.9	<8.3
	Chloroform	67-66-3		**5.2**	<0.75	<0.74	**1.1**	<0.82	**1.2**	**0.84**	**1.1**	**6.4**	**2.2**	**3.2**	**2.4**	<0.77	<0.78	**3.0**	**8.8**	**1.4**	<0.79	<0.73	<0.77
	Chloromethane	74-87-3		<17	<16	<16	<17	<17	<16	<17	<17	<17	<16	<17	<16	<16	<16	<18	<19	<17	<17	<15	<16
	cis-1,2-Dichloroethylene	156-59-2		<3.3	<3.0	<3.0	<3.2	<3.3	<3.0	<3.3	<3.3	<3.2	<3.0	<3.3	<3.2	<3.1	<3.2	<3.4	<3.6	<3.2	<3.2	<3.0	<3.1
	Cyclohexane	110-82-7		<2.9	<2.6	<2.6	<2.8	<2.9	<2.6	<2.8	<2.9	<2.8	<2.6	<2.8	<2.7	<2.7	<2.7	<3.0	<3.2	<2.8	<2.8	<2.6	<2.7
	Dichlorodifluoromethane	75-71-8		<4.2	**38**	<3.7	<4.0	<4.2	<3.7	**67**	**15**	<4.0	<3.7	<4.1	<3.9	<3.9	<3.9	<4.3	<4.5	<4.0	<4.0	**6.5**	<3.9
	Ethanol	64-17-5		**19**	**41**	<14	**36**	<16	**30**	<16	**16**	<15	**18**	<14	<16	<15	**18**	<14	**20**	<15	**16**	**36**	**37**
	Ethylbenzene	100-41-4		<1.4	<1.3	<1.3	<1.4	<1.4	<1.3	<1.4	<1.4	<1.4	<1.3	<1.4	<1.4	<1.4	<1.4	<1.5	<1.6	<1.4	<1.4	<1.3	<1.4
	Heptane	142-82-5		<3.4	<3.1	<3.1	<3.3	<3.4	<3.1	<3.4	<3.4	<3.3	<3.1	<3.4	<3.2	<3.2	<3.2	<3.6	<3.8	<3.3	<3.3	<3.0	<3.2
	Hexane	110-54-3		<3.0	<2.7	<2.7	<2.8	<3.0	<2.7	<2.9	<2.9	<2.8	<2.7	<2.9	<2.8	<2.8	<2.8	<3.1	<3.2	<2.8	<2.8	<2.6	<2.8
	Isopropylbenzene	98-82-8		<4.1	<3.8	<3.7	<4.0	<4.1	<3.7	<4.0	<4.1	<4.0	<3.7	<4.1	<3.9	<3.8	<3.9	<4.3	<4.5	<4.0	<4.0	<3.7	<3.9
	m+p-Xylenes	108-38-3/106-42-3		<7.3	<6.6	<6.6	<7.0	<7.3	<6.6	<7.2	<7.2	<7.0	<6.6	<7.2	<6.9	<6.8	<6.9	<7.6	<8.0	<7.0	<7.0	<6.5	<6.9
	o-Xylene	95-47-6		<3.6	<3.3	<3.3	<3.5	<3.6	<3.3	<3.6	<3.6	<3.5	<3.3	<3.6	<3.4	<3.4	<3.4	<3.8	<4.0	<3.5	<3.5	<3.2	<3.4
	2-Propanol	67-63-0		**9.6**	<7.5	<7.4	<7.9	<8.2	<7.4	<8.1	**8.4**	<7.9	**7.3**	<8.2	<7.8	<7.7	**11**	<8.6	<9.0	<8.0	<7.9	**9.3**	**12**
	Tetrachloroethylene (PCE)	127-18-4		<5.7	<5.2	<5.1	<5.5	<5.7	<5.1	<5.6	<5.7	<5.5	<5.1	<5.6	<5.4	<5.3	<5.4	<5.9	<6.2	<5.5	<5.5	<5.0	<5.4
	Tetrahydrofuran	109-99-9		<2.5	<2.2	<2.2	<2.4	<2.5	<2.2	<2.4	<2.5	<2.4	<2.2	<2.4	<2.3	<2.3	<2.3	<2.6	<2.7	<2.4	<2.4	<2.2	<2.3
	Toluene	108-88-3		<6.3	<5.8	<5.7	<6.1	<6.3	<5.7	<6.2	<6.3	<6.1	<5.7	<6.2	<6.0	<5.9	<6.0	<6.6	<6.9	<6.1	<6.1	<5.6	<6.0
	trans-1,2-Dichloroethylene	156-60-5		<3.3	<3.0	<3.0	<3.2	<3.3	<3.0	<3.3	<3.3	<3.2	<3.0	<3.3	<3.2	<3.1	<3.2	<3.4	<3.6	<3.2	<3.2	<3.0	<3.1
	Trichloroethylene	79-01-6		<4.5	<4.1	<4.0	<4.3	<4.5	<4.0	<4.4	<4.5	<4.3	<4.0	<4.5	<4.3	<4.2	<4.3	<4.7	<4.9	<4.4	<4.3	<4.0	<4.2
	Trichlorofluoromethane	75-69-4		<4.7	<4.3	<4.2	<4.5	<4.7	<4.2	<4.6	<4.7	<4.5	<4.2	<4.7	<4.5	<4.4	<4.5	<4.9	<5.2	<4.6	<4.5	<4.2	<4.4
	Vinyl chloride	75-01-4		<0.21	<0.20	<0.19	<0.20	<0.21	<0.19	<0.21	<0.21	<0.20	<0.19	<0.21	<0.20	<0.20	<0.20	<0.22	<0.24	<0.21	<0.20	<0.19	<0.20
ASTM D5504-12 (ug/m3)	Hydrogen Sulfide	7783-06-4		<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
NIOSH 6009 (ug/m3)	Mercury	7439-97-6		<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
EPA Method 3C (%)	Methane	74-82-8		<0.00017	**0.0040**	<0.00015	<0.00016	<0.00017	<0.00015	<0.00016	**0.00074**	<0.00016	<0.00015	<0.00017	<0.00016	<0.00016	**0.00019**	<0.00017	<0.00018	<0.00016	<0.00016	<0.00015	<0.00016
NCDEQ Risk Calculator Values	Vapor Intrusion Resident Soil Gas To Indoor Air		Cumulative Carcinogenic Risk	1.30E-06	0.00E+00	0.00E+00	2.70E-07	0.00E+00	2.90E-07	2.10E-07	2.70E-07	1.60E-06	5.40E-07	7.90E-07	5.90E-07	0.00E+00	0.00E+00	7.40E-07	2.20E-06	3.40E-07	0.00E+00	0.00E+00	0.00E+00
			Non-Carcinogenic Hazard Quotiennt	7.80E-02	1.10E-02	0.00E+00	1.60E-02	0.00E+00	1.80E-02	3.20E-02	2.20E-02	9.40E-02	3.40E-02	4.70E-02	3.50E-02	0.00E+00	1.60E-03	4.40E-02	1.30E-01	2.10E-02	0.00E+00	3.20E-03	1.70E-03

Notes:
Concentrations shown in **BOLD** exceed the laboratory detection limits.
Concentrations were not entered into the NCDEQ Risk Calculator (January 2025 Version), Compound not in Calculator.
Exceedes the Lower Explosive Limit (LEL) of methane which is 5% by volume, exceedances of the LEL are highlighted.
Concentrations shown in BOLD exceed the laboratory method detection limit.
NCDEQ Risk Calculator Values shown in red exceed risk.
NA: Not Analyzed

TABLE 3
Offsite Landfill Gas Sample Analytical Results Summary
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
S&ME Project No. 23050459 Task Order 2900 RI-17

Analytical Method	Analyte	CAS Number	Sample ID	SGP-50	SGP-50-H	SGP-51	SGP-51-H	SGP-52	SGP-52-H	SGP-53	SGP-53-H	SGP-54	SGP-54-H	SGP-55	SGP-55-H	SGP-56	SGP-56-H	SGP-57	SGP-57-H	SGP-58	SGP-58-H
			Address	**1017 Leslie Dr**		**1037 Leslie Dr**		**7586 Beverly Dr**		**7570 Beverly Dr**		**7566 Beverly Dr**		**7562 Beverly Dr**		**7538 Beverly Dr**		**7534 Beverly Dr**		**7530 Beverly Dr**	
			Date Collected	10/20/2025	10/20/2025	10/16/2025	10/16/2025	10/17/2025	10/17/2025	10/17/2025	10/17/2025	10/21/2025	10/21/2025	10/17/2025	10/17/2025	10/21/2025	10/21/2025	10/22/2025	10/22/2025	10/21/2025	10/21/2025
Volatile Organic Compounds by Method TO-15 (µg/m3)	1,1-Dichloroethane	75-34-3		**180**	**3.4**	<3.1	<3.2	**4.0**	<3.2	<3.5	<2.9	<3.2	<3.5	<3.3	<3.2	<3.5	<3.3	<3.2	<3.1	<3.6	<3.2
	1,1-Dichloroethylene	75-35-4		<33	<3.3	<3.0	<3.2	<2.8	<3.1	<3.4	<2.8	<3.1	<3.4	<3.2	<3.1	<3.4	<3.2	<3.2	<3.1	<3.5	<3.2
	1,2-Dichloroethane	107-06-2		<34	<0.67	<0.62	<0.65	<0.58	<0.64	<0.70	<0.58	<0.64	<0.70	<0.66	<0.64	<0.70	<0.66	<0.65	<0.63	<0.72	<0.64
	1,2-Dichloropropane	78-87-5		**130**	<3.8	<3.6	<3.7	<3.3	<3.6	<4.0	<3.3	<3.6	<4.0	<3.8	<3.6	<4.0	<3.8	<3.7	<3.6	<4.1	<3.7
	1,2-Dichlorotetrafluoroethane	76-14-2		**740**	**84**	<5.4	<5.6	**220**	<5.5	**74**	<5.0	**160**	**150**	**8.2**	**11**	<6.0	**18**	<5.6	<5.4	<6.2	<5.6
	1,3,5-Trimethylbenzene	108-67-8		<41	<4.1	<3.8	<4.0	<3.5	<3.8	<4.2	<3.5	<3.8	<4.2	<4.0	<3.9	<4.2	<4.0	<3.9	<3.8	<4.4	<3.9
	1,4-Dichlorobenzene	106-46-7		<50	<5.0	<4.6	<4.8	<4.3	<4.7	<5.2	<4.3	<4.7	<5.2	<4.9	<4.8	<5.2	<4.9	<4.8	<4.6	<5.3	<4.8
	2-Butanone (MEK)	78-93-3		<98	<9.8	<9.1	<9.5	<8.4	<9.2	<10	<8.4	<9.2	<10	<9.7	<9.3	<10	<9.7	<9.4	<9.1	<10	<9.4
	Acetone	67-64-1		**330**	<20	<18	<19	<17	<19	**27**	<17	<19	<20	**30**	**22**	**25**	<19	**36**	**21**	<21	**19**
	Benzene	71-43-2		**230**	**11**	<0.98	<1.0	**1.0**	<1.0	<1.1	<0.91	<1.0	<1.1	<1.0	<1.0	<1.1	<1.0	<1.0	<0.99	<1.1	<1.0
	Chlorobenzene	108-90-7		<38	<3.8	<3.5	<3.7	<3.3	<3.6	<4.0	<3.3	<3.6	<4.0	<3.8	<3.6	<4.0	<3.8	<3.7	<3.6	<4.1	<3.6
	Chloroethane	75-00-3		**260**	**11**	<8.1	<8.5	<7.5	<8.3	<9.1	<7.5	<8.3	<9.1	<8.6	<8.3	<9.1	<8.6	<8.4	<8.2	<9.3	<8.4
	Chloroform	67-66-3		<40	<0.81	<0.75	<0.79	**5.9**	<0.77	**0.93**	<0.70	<0.77	**23**	**6.1**	**37**	<0.84	**2.0**	**7.2**	<0.76	<0.86	**2.6**
	Chloromethane	74-87-3		**150**	<17	<16	<17	<15	<16	<18	<15	<16	<18	<17	<16	<18	<17	<16	<16	<18	<16
	cis-1,2-Dichloroethylene	156-59-2		**550**	**12**	<3.0	<3.2	<2.8	<3.1	<3.4	<2.8	<3.1	<3.4	<3.2	<3.1	<3.4	<3.2	<3.2	<3.1	<3.5	<3.2
	Cyclohexane	110-82-7		**660**	**23**	<2.6	<2.8	**3.9**	<2.7	<3.0	<2.5	<2.7	<3.0	<2.8	<2.7	<3.0	<2.8	<2.8	<2.7	<3.0	<2.7
	Dichlorodifluoromethane	75-71-8		**1100**	**110**	<3.8	<4.0	**110**	<3.9	**24**	**4.0**	**41**	<4.3	<4.0	<3.9	<4.2	**4.2**	<4.0	<3.8	<4.4	<3.9
	Ethanol	64-17-5		<16	**17**	**31**	**33**	<15	<16	**18**	**18**	<16	<16	**16**	**20**	<15	**29**	**49**	**16**	<15	**26**
	Ethylbenzene	100-41-4		<36	<1.4	<1.3	<1.4	<1.2	<1.4	<1.5	<1.2	<1.4	<1.5	<1.4	<1.4	<1.5	<1.4	<1.4	<1.3	<1.5	<1.4
	Heptane	142-82-5		**1000**	<3.4	<3.2	<3.3	<2.9	<3.2	<3.5	<2.9	<3.2	<3.5	<3.4	<3.2	<3.5	<3.4	<3.3	<3.2	<3.6	<3.2
	Hexane	110-54-3		**1000**	**20**	<2.7	<2.8	<2.5	<2.8	**7.6**	<2.5	<2.8	<3.0	<2.9	<2.8	<3.0	<2.9	<2.8	<2.7	<3.1	<2.8
	Isopropylbenzene	98-82-8		**47**	<4.1	<3.8	<4.0	<3.5	<3.8	<4.2	<3.5	<3.8	<4.2	<4.0	<3.9	<4.2	<4.0	<3.9	<3.8	<4.4	<3.9
	m+p-Xylenes	108-38-3/106-42-3		<36	<7.2	<6.7	<7.0	<6.2	<6.8	<7.5	<6.2	<6.8	<7.5	<7.1	<6.9	<7.5	<7.1	<6.9	<6.7	<7.7	<6.9
	o-Xylene	95-47-6		<36	<3.6	<3.3	<3.5	<3.1	<3.4	<3.8	<3.1	<3.4	<3.8	<3.6	<3.4	<3.7	<3.6	<3.5	<3.4	<3.8	<3.4
	2-Propanol	67-63-0		<100	<8.2	<7.6	<7.9	<7.0	<7.7	<8.5	**7.0**	<7.7	<8.5	<8.1	<7.8	<8.4	<8.1	**12**	<7.6	<8.7	**8.4**
	Tetrachloroethylene (PCE)	127-18-4		<56	<5.6	<5.2	<5.5	<4.8	<5.3	<5.9	<4.8	<5.3	<5.9	<5.6	<5.4	**74**	<5.6	<5.4	<5.2	<6.0	<5.4
	Tetrahydrofuran	109-99-9		<24	<2.4	<2.3	<2.4	<2.1	<2.3	<2.6	<2.1	<2.3	<2.6	<2.4	<2.3	<2.5	<2.4	<2.4	<2.3	<2.6	<2.3
	Toluene	108-88-3		**55**	<6.2	<5.8	<6.1	<5.4	<5.9	<6.5	<5.4	<5.9	<6.5	<6.2	<6.0	<6.5	<6.2	<6.0	<5.8	<6.7	<6.0
	trans-1,2-Dichloroethylene	156-60-5		**74**	**5.0**	<3.0	<3.2	<2.8	<3.1	<3.4	<2.8	<3.1	<3.4	<3.2	<3.1	<3.4	<3.2	<3.2	<3.1	<3.5	<3.2
	Trichloroethylene	79-01-6		<45	<4.5	<4.1	<4.3	<3.8	<4.2	<4.6	<3.8	<4.2	<4.6	<4.4	<4.2	<4.6	<4.4	<4.3	<4.2	<4.8	<4.3
	Trichlorofluoromethane	75-69-4		<47	<4.7	<4.3	**39**	<4.0	<4.4	<4.9	<4.0	<4.4	<4.9	<4.6	<4.4	<4.8	<4.6	<4.5	<4.4	<5.0	<4.5
	Vinyl chloride	75-01-4		**1200**	**46**	<0.20	<0.20	<0.18	<0.20	**0.81**	<0.18	<0.20	<0.22	<0.21	<0.20	<0.22	<0.21	<0.20	<0.20	<0.23	<0.20
ASTM D5504-12 (ug/m3)	Hydrogen Sulfide	7783-06-4		**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**	**<14**
NIOSH 6009 (ug/m3)	Mercury	7439-97-6		<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
EPA Method 3C (%)	Methane	74-82-8		**10**	**2.4**	<0.00015	<0.00016	**0.35**	**0.14**	**0.86**	<0.00014	**0.0063**	**0.016**	<0.00016	<0.00016	<0.00017	<0.00016	<0.00016	**0.00021**	<0.00018	<0.00016
NCDEQ Risk Calculator Values	**Vapor Intrusion Resident Soil Gas To Indoor Air**		**Cumulative Carcinogenic Risk**	2.40E-04	5.80E-08	0.00E+00	0.00E+00	5.80E-08	0.00E+00	3.70E-07	0.00E+00	0.00E+00	5.70E-06	1.50E-06	9.10E-06	2.10E-07	4.90E-07	1.80E-06	0.00E+00	0.00E+00	6.40E-07
			Non-Carcinogenic Hazard Quotiennt	2.80E+00	4.50E-02	0.00E+00	0.00E+00	4.50E-02	0.00E+00	2.10E-02	2.20E-03	1.20E-02	3.40E-01	9.00E-02	5.50E-01	5.30E-02	3.10E-02	1.10E-01	0.00E+00	0.00E+00	4.00E-02

Notes:
Concentrations shown in **BOLD** exceed the laboratory detection limits.
Concentrations were not entered into the NCDEQ Risk Calculator (January 2025 Version), Compound not in Calculator.
Exceedes the Lower Explosive Limit (LEL) of methane which is 5% by volume, exceedances of the LEL are highlighted.
Concentrations shown in BOLD exceed the laboratory method detection limit.
NCDEQ Risk Calculator Values shown in red exceed risk.
NA: Not Analyzed

TABLE 3
Offsite Landfill Gas Sample Analytical Results Summary
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
S&ME Project No. 23050459 Task Order 2900 RI-17

Analytical Method	Analyte	CAS Number	Sample ID	SGP-59	SGP-59-H	SGP-DUP-01 (SGP-30-H)	SGP-DUP-02 (SGP-59-H)	SGP-DUP-03 (SGP-35-H)	SGP-DUP-04 (SGP-51-H)	SGP-DUP-05 (SGP-52-H)	SGP-DUP-06 (SGP-50-H)	SGP-DUP-07 (SGP-54-H)	SGP-DUP-08 (SGP-47-H)
			Address	7501 Martha Ct									
			Date Collected	10/14/2025	10/14/2025	10/13/2025	10/14/2025	10/15/2025	10/16/2025	10/17/2025	10/20/2025	10/21/2025	10/22/2025
Volatile Organic Compounds by Method TO-15 (µg/m3)	1,1-Dichloroethane	75-34-3		<3.4	<6.9	<3.3	<4.0	<3.3	<3.2	<3.3	<3.0	<3.4	<3.4
	1,1-Dichloroethylene	75-35-4		<3.3	<6.7	<3.2	<3.9	<3.2	<3.1	<3.2	<2.9	<3.3	<3.3
	1,2-Dichloroethane	107-06-2		<0.68	<1.4	<0.66	<0.80	<0.66	<0.64	<0.66	<0.60	<0.67	<0.68
	1,2-Dichloropropane	78-87-5		<3.9	<7.8	<3.8	<4.6	<3.8	<3.6	<3.8	<3.4	<3.8	<3.9
	1,2-Dichlorotetrafluoroethane	76-14-2		<5.9	<12	<5.7	<6.9	**170**	<5.5	<5.7	<5.2	**140**	<5.9
	1,3,5-Trimethylbenzene	108-67-8		<4.1	<8.3	<4.0	<4.8	<4.0	<3.8	<4.0	<3.6	<4.1	<4.1
	1,4-Dichlorobenzene	106-46-7		<5.0	<10	<4.9	<5.9	<4.9	<4.7	<4.9	<4.4	<5.0	<5.0
	2-Butanone (MEK)	78-93-3		<9.9	<20	<9.6	<12	<9.7	<9.2	<9.7	<8.7	<9.8	<9.9
	Acetone	67-64-1		<20	**48**	<19	<23	<19	<19	<19	<18	<20	**22**
	Benzene	71-43-2		<1.1	<2.2	<1.0	<1.2	**5.5**	<1.0	<1.0	<0.94	<1.1	<1.1
	Chlorobenzene	108-90-7		<3.9	<7.8	<3.8	<4.5	<3.8	<3.6	<3.8	<3.4	<3.8	<3.9
	Chloroethane	75-00-3		<8.9	<18	<8.6	<10	<8.6	<8.3	<8.6	<7.8	<8.8	<8.9
	Chloroform	67-66-3		**100**	<1.6	<0.80	<0.96	**40**	<0.77	<0.80	<0.72	**23**	**8.9**
	Chloromethane	74-87-3		<17	<35	<17	<20	<17	<16	<17	<15	<17	<17
	cis-1,2-Dichloroethylene	156-59-2		<3.3	<6.7	<3.2	<3.9	<3.2	<3.1	<3.2	<2.9	<3.3	<3.3
	Cyclohexane	110-82-7		<2.9	<5.8	<2.8	<3.4	<2.8	<2.7	<2.8	<2.5	<2.8	<2.9
	Dichlorodifluoromethane	75-71-8		<4.2	<8.4	<4.0	<4.9	**11**	<3.9	<4.0	<3.6	<4.1	<4.2
	Ethanol	64-17-5		**16**	<15	<15	<15	<15	<15	<15	<15	<15	<15
	Ethylbenzene	100-41-4		<1.4	<2.9	<1.4	<1.7	<1.4	<1.4	<1.4	<1.3	<1.4	<1.4
	Heptane	142-82-5		<3.4	<6.9	<3.3	<4.0	<3.4	<3.2	<3.4	<3.0	<3.4	<3.4
	Hexane	110-54-3		<3.0	<6.0	<2.9	<3.5	**5.5**	<2.8	<2.9	<2.6	<2.9	<3.0
	Isopropylbenzene	98-82-8		<4.1	<8.3	<4.0	<4.8	<4.0	<3.8	<4.0	<3.6	<4.1	<4.1
	m+p-Xylenes	108-38-3/106-42-3		<7.3	<15	<7.1	<8.6	<7.1	<6.8	<7.1	<6.4	<7.2	<7.3
	o-Xylene	95-47-6		<3.6	<7.4	<3.5	<4.3	<3.6	<3.4	<3.6	<3.2	<3.6	<3.6
	2-Propanol	67-63-0		<8.2	<17	**15**	<9.7	<8.1	<7.7	<8.1	<7.3	<8.2	<8.2
	Tetrachloroethylene (PCE)	127-18-4		<5.7	<11	<5.5	<6.7	<5.6	<5.3	<5.6	<5.0	<5.6	<5.7
	Tetrahydrofuran	109-99-9		<2.5	<5.0	<2.4	<2.9	<2.4	<2.3	<2.4	<2.2	<2.4	<2.5
	Toluene	108-88-3		<6.3	<13	<6.1	<7.4	<6.2	<5.9	<6.2	<5.6	<6.2	<6.3
	trans-1,2-Dichloroethylene	156-60-5		<3.3	<6.7	<3.2	<3.9	<3.2	<3.1	<3.2	<2.9	<3.3	<3.3
	Trichloroethylene	79-01-6		<4.5	<9.1	<4.4	<5.3	<4.4	<4.2	<4.4	<4.0	<4.5	<4.5
	Trichlorofluoromethane	75-69-4		<4.7	<9.5	<4.6	<5.5	<4.6	**38**	<4.6	<4.2	<4.7	<4.7
	Vinyl chloride	75-01-4		<0.21	<0.43	<0.21	<0.25	<0.21	<0.20	<0.21	<0.19	<0.21	<0.21
ASTM D5504-12 (ug/m3)	Hydrogen Sulfide	7783-06-4		<14	<14	**<14**	<14	**<14**	**<14**	NA	**<14**	**<14**	**<14**
NIOSH 6009 (ug/m3)	Mercury	7439-97-6		<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
EPA Method 3C (%)	Methane	74-82-8		<0.00017	<0.00034	<0.00016	<0.00020	**0.33**	<0.00016	**0.15**	**0.0060**	**0.016**	<0.00017
NCDEQ Risk Calculator Values	**Vapor Intrusion Resident Soil Gas To Indoor Air**	**Cumulative Carcinogenic Risk**		2.70E-05	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	5.70E-06	2.20E-06
		Non-Carcinogenic Hazard Quotiennt		1.50E+00	0.00E+00	2.20E-03	0.00E+00	8.70E-01	0.00E+00	0.00E+00	0.00E+00	3.40E-01	1.30E-01

Notes:
Concentrations shown in **BOLD** exceed the laboratory detection limits.
Concentrations were not entered into the NCDEQ Risk Calculator (January 2025 Version), Compound not in Calculator.
Exceedes the Lower Explosive Limit (LEL) of methane which is 5% by volume, exceedances of the LEL are highlighted.
Concentrations shown in BOLD exceed the laboratory method detection limit.
NCDEQ Risk Calculator Values shown in red exceed risk.
NA: Not Analyzed

Appendices

Appendix I – Coordinates of Selected Features

APPENDIX I
Coordinates of Selected Features
Cumberland County/Cliffdale Landfill (NCD980502900)
7583 Lowell Harris Road, Fayetteville, Cumberland County, North Carolina
S&ME Project No. 23050459 Task Order 2900 RI-19

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
SGI-30	Soil Gas Implant	-79.05691909	35.04562272	471537.6099	1982964.193
SGI-30-H	Soil Gas Implant	-79.05643066	35.04555352	471629.0445	1982964.891
SGP-31	Soil Gas Probe	-79.05653304	35.04502771	471429.3543	1982908.96
SGP-31-H	Soil Gas Probe	-79.05565303	35.044989	471413.3402	1982884.181
SGP-32	Soil Gas Probe	-79.05487998	35.04484266	471338.7731	1982948.728
SGP-32-H	Soil Gas Probe	-79.05675815	35.04382471	471360.7136	1982923.802
SGP-33	Soil Gas Probe	-79.05566431	35.04408927	471027.2616	1982933.263
SGP-33-H	Soil Gas Probe	-79.05479623	35.04408966	471038.9922	1982949.712
SGI-34	Soil Gas Implant	-79.05391626	35.04409006	470773.1922	1982917.797
SGI-34-H	Soil Gas Implant	-79.05338057	35.04394634	470787.7378	1982900.057
SGP-35	Soil Gas Probe	-79.05567559	35.04319931	470587.6109	1982913.379
SGP-35-H	Soil Gas Probe	-79.05480752	35.04319971	470591.3202	1982882.383
SGP-36	Soil Gas Probe	-79.05392755	35.04318054	470375.5181	1982911.169
SGP-36-H	Soil Gas Probe	-79.0530714	35.04322982	470383.2783	1982876.221
SGP-37	Soil Gas Probe	-79.056769	35.04232841	470281.932	1982911.081
SGP-37-H	Soil Gas Probe	-79.055675	35.04232892	470282.5025	1982876.439
SGP-38	Soil Gas Probe	-79.05480693	35.04231954	470176.6809	1982906.751
SGP-38-H	Soil Gas Probe	-79.05390319	35.04231016	470147.2233	1982860.029
SGP-39	Soil Gas Probe	-79.05298755	35.04229101	470075.0532	1982897.914
SGP-39-H	Soil Gas Probe	-79.05258086	35.04226732	470062.5158	1982867.033
SGI-40	Soil Gas Implant	-79.05168199	35.04186881	469791.2906	1982875.732
SGI-40-H	Soil Gas Implant	-79.05674644	35.04124819	469770.6886	1982841.264
SGI-41	Soil Gas Implant	-79.05598988	35.04111083	469781.2161	1982984.076
SGI-41-H	Soil Gas Implant	-79.05482985	35.04102861	469745.9173	1982975.623
SGI-42	Soil Gas Implant	-79.05384289	35.04102905	469765.7513	1983070.239
SGI-42-H	Soil Gas Implant	-79.05291537	35.04100012	469709.5864	1983064.244
SGI-43	Soil Gas Implant	-79.05217814	35.04102978	469765.7513	1983344.193
SGI-43-H	Soil Gas Implant	-79.05129841	35.04136267	469646.9241	1983366.959
SGI-44	Soil Gas Implant	-79.05046597	35.04126522	469619.9373	1983872.215
SGI-44-H	Soil Gas Implant	-79.05131925	35.04077827	469565.1401	1983832.986
SGP-45	Soil Gas Probe	-79.05691909	35.04562272	469604.4721	1983962.797
SGP-45-H	Soil Gas Probe	-79.05710342	35.04532518	469556.6096	1984001.161
SGI-46	Soil Gas Implant	-79.05697038	35.04507635	469597.1538	1984058.763
SGI-46-H	Soil Gas Implant	-79.05702145	35.04422037	469579.7641	1984053.563
SGP-47	Soil Gas Probe	-79.05707263	35.04352223	469614.414	1984524.787
SGP-47-H	Soil Gas Probe	-79.05708704	35.0430123	469550.5161	1984467.907
SGP-48	Soil Gas Probe	-79.05709401	35.04242952	469531.5654	1984718.101
SGP-48-H	Soil Gas Probe	-79.05709413	35.04217237	469485.4887	1984627.569
SGP-49	Soil Gas Probe	-79.05710839	35.04188316	470879.2914	1982952.313
SGP-49-H	Soil Gas Probe	-79.05713772	35.0416039	470887.5312	1982900.886
SGP-50	Soil Gas Probe	-79.05721128	35.04082416	470479.1344	1982936.053
SGP-50-H	Soil Gas Probe	-79.05684929	35.04079665	470481.1048	1982884.832
SGP-51	Soil Gas Probe	-79.0565614	35.04075429	470014.3433	1982925.516
SGP-51-H	Soil Gas Probe	-79.05564614	35.04075472	469984.3896	1982863.944
SGP-52	Soil Gas Probe	-79.05388178	35.04035486	469779.6748	1983192.289
SGP-52-H	Soil Gas Probe	-79.05357912	35.0403125	469686.7944	1983169.868
SGP-53	Soil Gas Probe	-79.05325849	35.04029253	469772.7952	1983549.26
SGP-53-H	Soil Gas Probe	-79.05170157	35.04034064	469657.2715	1983518.606
SGP-54	Soil Gas Probe	-79.05105558	35.04011327	469745.0794	1983633.428
SGP-54-H	Soil Gas Probe	-79.05674644	35.04124819	469638.9481	1983617.356
SGP-55	Soil Gas Probe	-79.05598988	35.04111083	469757.0932	1983724.65
SGP-55-H	Soil Gas Probe	-79.05482985	35.04102861	469613.723	1983715.631
SGP-56	Soil Gas Probe	-79.05384289	35.04102905	469634.6036	1984231.488
SGP-56-H	Soil Gas Probe	-79.05291537	35.04100012	469584.3222	1984234.387
SGP-57	Soil Gas Probe	-79.05217814	35.04102978	469641.9156	1984315.575
SGP-57-H	Soil Gas Probe	-79.05129841	35.04136267	469580.2339	1984333.736
SGP-58	Soil Gas Probe	-79.05046597	35.04126522	469645.5717	1984410.631
SGP-58-H	Soil Gas Probe	-79.05131925	35.04077827	469583.5577	1984422.262
SGP-59	Soil Gas Probe	-79.05691909	35.04562272	471171.2091	1982967.339
SGP-59-H	Soil Gas Probe	-79.05710342	35.04532518	471250.6427	1982845.683

Notes:

Site feature locations are reported in decimal degrees for Lattitude/Longitude and in feet in the North Carolina State Plane Coordinate System (NAD83).

Appendix II– Field Notes

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/13/25
Weather:	Overcast	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-30-H			SGP-DUP-01			SGP-30			SGP-31-H			SGP-31		
Canister ID	6L0979			6L1589			6L2322			6L0831			6L2216		
Regulator ID	23299			23969			25179			23547			23996		
Canister Volume (L)	6			6			6			6			6		
Ambient Temp (°F)	60			60			61			61			61		
Barometric Pressure (inHg)	29.9			29.9			29.9			29.9			29.9		
Leak Test Information															
Purge Method	Personal Pump			Personal Pump			Personal Pump			Personal Pump			Personal Pump		
He Concentration in Shroud (%)	16.5			16.5			14.8			15.2			17.8		
He Detected in Leak Test (Y or N)	No			No			No			No			No		
He Conc. Detected in Leak Test (ppm)	0			0			0			0			0		
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%			0.000%			0.000%			0.000%		
Leak Test Passed (Yes/No)[1]	Yes			Yes			Yes			Yes			Yes		
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	24	8	0	24	5	0	24	8	0	24	10	0	60
Sand Pack Interval Depth (in-bgs)	72	to	96	72	to	96	36	to	60	72	to	96	60	to	120
Volume (mL)	535			535			522			535			1293		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	8.0			8.0			7.8			8.0			19.4		
Actual Purge Time (min)	8.0			8.0			8.0			8.0			20.0		
Sample Collection															
Start Time	10:10			10:10			10:23			10:45			11:10		
Initial Vacuum (inHg)	29			28			28			29			30		
End Time	11:08			11:08			11:23			11:45			12:12		
Final Vacuum (inHg)	5			5			6			7			5		
Approximate Total Time (min)	58			58			60			60			62		
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15		

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

2. SGP-DUP-01 is taken at record sample SGP-30-H

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/13/25
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-32-H			SGP-32											
Canister ID	6L2815			6L0257											
Regulator ID	23413			24907											
Canister Volume (L)	6			6											
Ambient Temp (°F)	63			63											
Barometric Pressure (inHg)	29.9			29.9											
Leak Test Information															
Purge Method	Personal Pump			Personal Pump											
He Concentration in Shroud (%)	15.8			16.9											
He Detected in Leak Test (Y or N)	No			No											
He Conc. Detected in Leak Test (ppm)	0			0											
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%											
Leak Test Passed (Yes/No)[1]	Yes			Yes											
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	24	6	0	24		0			0			0	
Sand Pack Interval Depth (in-bgs)	72	to	96	48	to	72		to			to			to	
Volume (mL)	535			526											
Purge Flow Rate (mL/min)	200			200											
Purge Interval (3x Vol.) (min)	8.0			7.9											
Actual Purge Time (min)	8.0			8.0											
Sample Collection															
Start Time	11:47			11:58											
Initial Vacuum (inHg)	27			29											
End Time	12:47			12:58											
Final Vacuum (inHg)	5			5											
Approximate Total Time (min)	60			60											
Sample Analysis	VOCs by TO-15			VOCs by TO-15											

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/14/25
Weather:	Sunny	**Air Temp (°F):**	62
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information					
Sample Type					
Sample ID	SGP-59-H	SGP-DUP-02	SGP-59	SGP-33-H	SGP-33
Canister ID	6L1714	6L1620	6L0291	6L0746	6L1838
Regulator ID	24406	24392	25270	23517	23486
Canister Volume (L)	6	6	6	6	6
Ambient Temp (°F)	62	62	63	65	66
Barometric Pressure (inHg)	30.0	30.0	30.0	30.0	30.0
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	14.5	14.5	14.6	15.3	15.1
He Detected in Leak Test (Y or N)	No	No	No	No	No
He Conc. Detected in Leak Test (ppm)	0	0	0	0	0
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.000%	0.000%	0.000%
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	Yes	Yes

Purge Information

Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	5	0	24	5	0	24	3	0	12	9	0	48	10	0	60
Sand Pack Interval Depth (in-bgs)	36	to	60	36	to	60	24	to	36	60	to	108	60	to	120
Volume (mL)	522			522			263			1039			1293		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	7.8			7.8			3.9			15.6			19.4		
Actual Purge Time (min)	8.0			8.0			4.0			15.0			20.0		

Sample Collection					
Start Time	11:05	11:05	09:36	10:10	11:00
Initial Vacuum (inHg)	30	29	30	28	30
End Time	12:28	12:28	10:36	11:10	12:00
Final Vacuum (inHg)	20	12	8	10	6
Approximate Total Time (min)	83	83	60	60	60
Sample Analysis	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15

Sampler Information

Sampled by: Logan Hester Sampler Signature: Logan Hester Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

2. Duplicate-2 is taken at SGP-59-H

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/14/25
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-49-H			SGP-49			SGP-34-H			SGP-34					
Canister ID	6L0653			6L0664			6L0307			6L2924					
Regulator ID	23272			24282			24540			23254					
Canister Volume (L)	6			6			6			6					
Ambient Temp (°F)	68			68			68			68					
Barometric Pressure (inHg)	30.0			30.0			30.0			30.0					
Leak Test Information															
Purge Method	Personal Pump			Personal Pump			Personal Pump			Personal Pump					
He Concentration in Shroud (%)	14.8			15.3			14.7			15.2					
He Detected in Leak Test (Y or N)	No			No			No			No					
He Conc. Detected in Leak Test (ppm)	0			0			0			0					
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%			0.000%			0.000%					
Leak Test Passed (Yes/No)[1]	Yes			Yes			Yes			Yes					
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	36	8	0	36	9	0	36	5	0	24		0	
Sand Pack Interval Depth (in-bgs)	60	to	96	60	to	96	72	to	108	36	to	60		to	
Volume (mL)	785			785			789			522					
Purge Flow Rate (mL/min)	200			200			200			200					
Purge Interval (3x Vol.) (min)	11.8			11.8			11.8			7.8					
Actual Purge Time (min)	12.0			12.0			12.0			8.0					
Sample Collection															
Start Time	10:48			11:04			11:30			11:41					
Initial Vacuum (inHg)	29			30			30			30					
End Time	11:48			12:04			12:30			12:41					
Final Vacuum (inHg)	7			5						6					
Approximate Total Time (min)	60			60			60			60					
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15					

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/15/25
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information					
Sample Type					
Sample ID	SGP-35-H	SGP-DUP-03	SGP-35	SGP-36-H	SGP-36
Canister ID	6L0612	6L2657	6L3062	6L0209	6L1630
Regulator ID	23609	24065	24036	24562	24038
Canister Volume (L)	6	6	6	6	6
Ambient Temp (°F)	61	61	62	63	63
Barometric Pressure (inHg)	30.0	30.0	30.0	30.0	30.0
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	15.2	15.2	15.8	14.9	16.3
He Detected in Leak Test (Y or N)	No	No	No	Yes	No
He Conc. Detected in Leak Test (ppm)	0	0	0	14,000	0
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.000%	9.396%	0.000%
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	No	Yes

Purge Information

Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	36	8	0	36	11	0	60	4	0	12	11	0	60
Sand Pack Interval Depth (in-bgs)	60	to	96	60	to	96	72	to	132	36	to	48	72	to	132
Volume (mL)	785			785			1298			268			1298		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	11.8			11.8			19.5			4.0			19.5		
Actual Purge Time (min)	12.0			12.0			20.0			4.0			20.0		
Sample Collection															
Start Time	09:08			09:08			09:22			09:44			09:57		
Initial Vacuum (inHg)	28			27			30			29			28		
End Time	10:05			10:05			10:19			10:44			10:57		
Final Vacuum (inHg)	6			6			5			6			6		
Approximate Total Time (min)	57			57			57			60			60		
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15		

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

2. Duplicate-2 is taken at SGP-35-H 3. SGP-36-H: Flooded bubble with helium, ran pump. Helium detector had a reading of 3.2%. Tightened all the fittings, added helium again, same percent. Checked with pump-pressure test and fittings were secure, started sample.

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/15/2025
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-37-H			SGP-37			SGP-38-H			SGP-38			SGP-39-H		
Canister ID	6L2081			6L3644			6L1662			6L2988			6L1725		
Regulator ID	23525			24887			24041			23793			23487		
Canister Volume (L)	6			6			6			6			6		
Ambient Temp (°F)	65			65			66			66			67		
Barometric Pressure (inHg)	30.1			30.1			30.1			30.1			30.1		
Leak Test Information															
Purge Method	Personal Pump			Personal Pump			Personal Pump			Personal Pump			Personal Pump		
He Concentration in Shroud (%)	14.2			15.8			16.1			14.4			15.3		
He Detected in Leak Test (Y or N)	No			No			No			No			No		
He Conc. Detected in Leak Test (ppm)	0			0			0			0			0		
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%			0.000%			0.000%			0.000%		
Leak Test Passed (Yes/No)[1]	Yes			Yes			Yes			Yes			Yes		
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	24	11	0	60	4	0	12	7	0	36	8	0	24
Sand Pack Interval Depth (in-bgs)	72	to	96	72	to	132	36	to	48	48	to	84	72	to	96
Volume (mL)	535			1298			268			781			535		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	8.0			19.5			4.0			11.7			8.0		
Actual Purge Time (min)	8.0			20.0			4.0			12.0			8.0		
Sample Collection															
Start Time	10:10			10:30			10:40			10:55			11:13		
Initial Vacuum (inHg)	28			30			28			28			30		
End Time	11:07			11:24			11:40			11:43			12:13		
Final Vacuum (inHg)	5			5			6			5			6		
Approximate Total Time (min)	57			54			60			48			60		
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15		

Sampler Information

Sampled by: Logan Hester Sampler Signature: Logan Hester Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/15/2025
Weather:	Sunny	**Air Temp (°F):**	70s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-39														
Canister ID	6L0401														
Regulator ID	23375														
Canister Volume (L)	6														
Ambient Temp (°F)	70														
Barometric Pressure (inHg)	30.0														
Leak Test Information															
Purge Method	Personal Pump														
He Concentration in Shroud (%)	15.8														
He Detected in Leak Test (Y or N)	No														
He Conc. Detected in Leak Test (ppm)	0														
Percent of He in the Leak Test versus the Shroud	0.000%														
Leak Test Passed (Yes/No)[1]	Yes														
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	10	0	60		0			0			0			0	
Sand Pack Interval Depth (in-bgs)	60	to	120		to			to			to			to	
Volume (mL)	1293														
Purge Flow Rate (mL/min)	200														
Purge Interval (3x Vol.) (min)	19.4														
Actual Purge Time (min)	20.0														
Sample Collection															
Start Time	11:31														
Initial Vacuum (inHg)	30														
End Time	12:31														
Final Vacuum (inHg)	9														
Approximate Total Time (min)	60														
Sample Analysis	VOCs by TO-15														

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/16/25
Weather:	Sunny	**Air Temp (°F):**	50s-60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information					
Sample Type					
Sample ID	SGP-51-H	SGP-DUP-04	SGP-51	SGP-40-H	SGP-40
Canister ID	6L2279	6L1806	6L0511	6L1804	6L0909
Regulator ID	23753	23206	23261	23307	24059
Canister Volume (L)	6	6	6	6	6
Ambient Temp (°F)	59	59	59	61	62
Barometric Pressure (inHg)	30.1	30.1	30.1	30.1	30.1
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	17.1	17.1	16.3	16.4	14.8
He Detected in Leak Test (Y or N)	No	No	Yes	No	No
He Conc. Detected in Leak Test (ppm)	0	0	1,500	0	0
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.920%	0.000%	0.000%
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	Yes	Yes

Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	5	0	24	5	0	24	5	0	24	7	0	36	3	0	12
Sand Pack Interval Depth (in-bgs)	36	to	60	36	to	60	36	to	60	48	to	84	24	to	36
Volume (mL)	522			522			522			781			263		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	7.8			7.8			7.8			11.7			3.9		
Actual Purge Time (min)	8.0			8.0			8.0			12.0			4.0		

Sample Collection					
Start Time	09:45	09:45	09:55	10:18	10:26
Initial Vacuum (inHg)	30	28	27	30	29
End Time	10:45	10:45	10:55	11:18	11:14
Final Vacuum (inHg)	4	8	6	9	5
Approximate Total Time (min)	60	60	60	60	48
Sample Analysis	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15		

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

2. Dup-04 is taken at SGP-51-H

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/22/2025
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-48-H			SGP-48											
Canister ID	6L1788			6L0774											
Regulator ID	24234			23330											
Canister Volume (L)	6			6											
Ambient Temp (°F)	68			68											
Barometric Pressure (inHg)	30.1			30.1											
Leak Test Information															
Purge Method	Personal Pump			Personal Pump											
He Concentration in Shroud (%)	14			14.2											
He Detected in Leak Test (Y or N)	No			No											
He Conc. Detected in Leak Test (ppm)	0			0											
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%											
Leak Test Passed (Yes/No)[1]	Yes			Yes											
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	5.5	0	24	10	0	60		0			0			0	
Sand Pack Interval Depth (in-bgs)	42	to	66	60	to	120		to			to			to	
Volume (mL)	524			1293											
Purge Flow Rate (mL/min)	200			200											
Purge Interval (3x Vol.) (min)	7.9			19.4											
Actual Purge Time (min)	8.0			20.0											
Sample Collection															
Start Time	10:59			11:25											
Initial Vacuum (inHg)	30			23											
End Time	11:59			12:25											
Final Vacuum (inHg)	6			6											
Approximate Total Time (min)	60			60											
Sample Analysis	VOCs by TO-15			VOCs by TO-15											

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/17/25
Weather:	Sunny	**Air Temp (°F):**	50s-60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information					
Sample Type					
Sample ID	SGP-55-H	SGP-55	SGP-44-H	SGP-44	
Canister ID	6L0116	6L2226	6L0159	6L0619	
Regulator ID	23357	23718	23681	22700	
Canister Volume (L)	6	6	6	6	
Ambient Temp (°F)	58	60	60	61	
Barometric Pressure (inHg)	30.1	30.1	30.1	30.1	
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	
He Concentration in Shroud (%)	14.9	16.4	14.5	13.7	
He Detected in Leak Test (Y or N)	No	No	No	No	
He Conc. Detected in Leak Test (ppm)	0	0	0	0	
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.000%	0.000%	
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	Yes	

Purge Information

Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	24	4.5	0	18	8	0	36	4	0	12		0	
Sand Pack Interval Depth (in-bgs)	72	to	96	36	to	54	60	to	96	36	to	48		to	
Volume (mL)	535			395			785			268					
Purge Flow Rate (mL/min)	200			200			200			200					
Purge Interval (3x Vol.) (min)	8.0			5.9			11.8			4.0					
Actual Purge Time (min)	8.0			6.0			12.0			4.0					

Sample Collection					
Start Time	10:38	10:50	11:13	11:22	
Initial Vacuum (inHg)	30	30	30	30	
End Time	11:38	11:50	12:13	12:22	
Final Vacuum (inHg)	5	7	6	5	
Approximate Total Time (min)	60	60	60	60	
Sample Analysis	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15	

Sampler Information

Sampled by: Logan Hester Sampler Signature: Logan Hester Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/17/25
Weather:	Sunny	**Air Temp (°F):**	40s-50s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information					
Sample Type					
Sample ID	SGP-52-H	SGP-DUP-05	SGP-52	SGP-53-H	SGP-53
Canister ID	6L0157	6L0957	6L0905	6L0775	6L2222
Regulator ID	24037	25272	23259	24922	24882
Canister Volume (L)	6	6	6	6	6
Ambient Temp (°F)	48	48	54	56	58
Barometric Pressure (inHg)	30.1	30.1	30.1	30.1	30.1
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	16.1	16.1	18.4	15.1	16.7
He Detected in Leak Test (Y or N)	No	No	No	No	No
He Conc. Detected in Leak Test (ppm)	0	0	0	0	0
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.000%	0.000%	0.000%
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	Yes	Yes

Purge Information

Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	10	0	48	10	0	48	10	0	48	10	0	48	8	0	24
Sand Pack Interval Depth (in-bgs)	72	to	120	72	to	120	72	to	120	72	to	120	72	to	96
Volume (mL)	1044			1044			1044			1044			535		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	15.7			15.7			15.7			15.7			8.0		
Actual Purge Time (min)	16.0			16.0			16.0			16.0			8.0		
Sample Collection															
Start Time	09:22			09:22			09:38			10:08			10:17		
Initial Vacuum (inHg)	27			30			29			30			29		
End Time	10:19			10:19			10:38			11:08			11:17		
Final Vacuum (inHg)	5			7			8			7			8		
Approximate Total Time (min)	57			57			60			60			60		
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15		

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

2. SGP-DUP-05 is taken at record sample SGP-52-H

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/16/2025
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-41-H			SGP-41			SGP-42-H			SGP-42					
Canister ID	6L2042			6L1785			6L0252			6L1070					
Regulator ID	24554			28366			24032			24906					
Canister Volume (L)	6			6			6			6					
Ambient Temp (°F)	63			63			65			65					
Barometric Pressure (inHg)	30.1			30.1			30.1			30.1					
Leak Test Information															
Purge Method	Personal Pump			Personal Pump			Personal Pump			Personal Pump					
He Concentration in Shroud (%)	15.2			14.9			14.9			18.9					
He Detected in Leak Test (Y or N)	No			No			No			No					
He Conc. Detected in Leak Test (ppm)	0			0			0			0					
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%			0.000%			0.000%					
Leak Test Passed (Yes/No)[1]	Yes			Yes			Yes			Yes					
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	5	0	24	3	0	12	6	0	24	2	0	12		0	
Sand Pack Interval Depth (in-bgs)	36	to	60	24	to	36	48	to	72	12	to	24		to	
Volume (mL)	522			263			526			259					
Purge Flow Rate (mL/min)	200			200			200			200					
Purge Interval (3x Vol.) (min)	7.8			3.9			7.9			3.9					
Actual Purge Time (min)	8.0			4.0			8.0			4.0					
Sample Collection															
Start Time	10:53			11:01			11:32			11:40					
Initial Vacuum (inHg)	30			30			30			30					
End Time	11:53			12:01			12:32			12:40					
Final Vacuum (inHg)	5			5			8			9					
Approximate Total Time (min)	60			60			60			60					
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15								

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/20/25
Weather:	Sunny	**Air Temp (°F):**	50s-60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information					
Sample Type					
Sample ID	SGP-50-H	SGP-DUP-06	SGP-50	SGP-43-H	SGP-43
Canister ID	6L2496	6L4029	6L1762	3011	6L1039
Regulator ID	23513	23123	24726	24295	24689
Canister Volume (L)	6	6	6	6	6
Ambient Temp (°F)	54	54	54	57	58
Barometric Pressure (inHg)	30.1	30.1	30.1	30.1	30.1
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	15.6	15.6	16.7	18.2	15.2
He Detected in Leak Test (Y or N)	No	No	No	No	No
He Conc. Detected in Leak Test (ppm)	0	0	0	0	0
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.000%	0.000%	0.000%
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	Yes	Yes

Purge Information

Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	7.5	0	30	7.5	0	30	6	0	24	7.5	0	30	4	0	12
Sand Pack Interval Depth (in-bgs)	60	to	90	60	to	90	48	to	72	60	to	90	36	to	48
Volume (mL)	658			658			526			658			268		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	9.9			9.9			7.9			9.9			4.0		
Actual Purge Time (min)	10.0			10.0			8.0			10.0			4.0		

Sample Collection					
Start Time	09:13	09:13	09:27	09:43	09:49
Initial Vacuum (inHg)	29	27	29	28	26
End Time	10:13	10:13	10:23	10:49	10:49
Final Vacuum (inHg)	7	5	5	9	9
Approximate Total Time (min)	60	60	56	66	60
Sample Analysis	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15		

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

2. SGP-DUP-06 taken from sample SGP-50-H

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/20/25
Weather:	Sunny	**Air Temp (°F):**	50s-60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-45-H			SGP-45			SGP-46-H			SGP-46					
Canister ID	6L2757			6L0316			24482			6L0241					
Regulator ID	23918			24888			26804			23155					
Canister Volume (L)	6			6			6			6					
Ambient Temp (°F)	58			58			60			61					
Barometric Pressure (inHg)	30.1			30.1			30.1			30.1					
Leak Test Information															
Purge Method	Personal Pump			Personal Pump			Personal Pump			Personal Pump					
He Concentration in Shroud (%)	13.6			14.6			14.6			15.2					
He Detected in Leak Test (Y or N)	No			No			No			No					
He Conc. Detected in Leak Test (ppm)	0			0			0			0					
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%			0.000%			0.000%					
Leak Test Passed (Yes/No)[1]	Yes			Yes			Yes			Yes					
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8.5	0	42	10	0	72	10	0	60	5	0	12		0	
Sand Pack Interval Depth (in-bgs)	60	to	102	48	to	120	60	to	120	48	to	60		to	
Volume (mL)	912			1543			1293			272					
Purge Flow Rate (mL/min)	200			200			200			200					
Purge Interval (3x Vol.) (min)	13.7			23.1			19.4			4.1					
Actual Purge Time (min)	14.0			20.0			20.0			4.0					
Sample Collection															
Start Time	10:13			10:26			10:46			10:53					
Initial Vacuum (inHg)	30			29			30			29					
End Time	11:09			11:26			11:46			11:53					
Final Vacuum (inHg)	5			8			10			5					
Approximate Total Time (min)	56			60			60			60					
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15			VOCs by TO-15					

Sampler Information

Sampled by: Logan Hester Sampler Signature: Logan Hester Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/22/25
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information					
Sample Type					
Sample ID	SGP-47-H	SGP-DUP-08	SGP-47	SGP-57-H	SGP-57
Canister ID	6L1077	6L2094	6L2159	6L1211	6L0302
Regulator ID	27030	23310	25319	24741	23608
Canister Volume (L)	6	6	6	6	6
Ambient Temp (°F)	63	63	64	66	66
Barometric Pressure (inHg)	30.1	30.1	30.1	30.1	30.1
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	15.5	15.5	14.2	17.5	15
He Detected in Leak Test (Y or N)	No	No	No	No	No
He Conc. Detected in Leak Test (ppm)	0	0	0	1,600	0
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.000%	0.914%	0.000%
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	Yes	Yes

Purge Information

Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	9	0	36	9	0	36	10	0	60	9	0	36	9	0	36
Sand Pack Interval Depth (in-bgs)	72	to	108	72	to	108	60	to	120	72	to	108	72	to	108
Volume (mL)	789			789			1293			789			789		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	11.8			11.8			19.4			11.8			11.8		
Actual Purge Time (min)	12.0			12.0			20.0			12.0			12.0		
Sample Collection															
Start Time	09:56			09:56			10:12			10:27			10:38		
Initial Vacuum (inHg)	28			28			29			30			29		
End Time	10:54			10:54			11:12			11:27			11:38		
Final Vacuum (inHg)	7			4			5			6			9		
Approximate Total Time (min)	58			58			60			60			60		
Sample Analysis	VOCs by TO-15			VOCs by TO-15			VOCs by TO-15								

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes:
1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.
2. SGP-DUP-08 is taken at record sample SGP-47-H

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/21/25
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information															
Sample Type															
Sample ID	SGP-58-H			SGP-58											
Canister ID	6L2201			6L2738											
Regulator ID	24388			23151											
Canister Volume (L)	6			6											
Ambient Temp (°F)	62			62											
Barometric Pressure (inHg)	30.1			30.1											
Leak Test Information															
Purge Method	Personal Pump			Personal Pump											
He Concentration in Shroud (%)	14.2			15.2											
He Detected in Leak Test (Y or N)	No			No											
He Conc. Detected in Leak Test (ppm)	0			0											
Percent of He in the Leak Test versus the Shroud	0.000%			0.000%											
Leak Test Passed (Yes/No)[1]	Yes			Yes											
Purge Information															
Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	36	9	0	48		0			0			0	
Sand Pack Interval Depth (in-bgs)	60	to	96	60	to	108		to			to			to	
Volume (mL)	785			1039											
Purge Flow Rate (mL/min)	200			200											
Purge Interval (3x Vol.) (min)	11.8			15.6											
Actual Purge Time (min)	12.0			16.0											
Sample Collection															
Start Time	10:47			11:00											
Initial Vacuum (inHg)	29			30											
End Time	11:47			11:55											
Final Vacuum (inHg)	5			5											
Approximate Total Time (min)	60			55											
Sample Analysis	VOCs by TO-15			VOCs by TO-15											

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Cliffdale Landfill		
Project Number:	23050459 RI-16		
Location:	7583 Lowell Harris Rd Fayetteville, NC	**Date:**	10/21/25
Weather:	Sunny	**Air Temp (°F):**	60s
Helium Detector Serial No.:	Field Environmental Instruments Rental	**Calibration Date:**	

Sample Information

Sample Type					
Sample ID	SGP-54-H	SGP-DUP-07	SGP-54	SGP-56-H	SGP-56
Canister ID	6L1756	6L0491	6L0537	6L1179	6L3000
Regulator ID	24100	23535	23666	24546	24346
Canister Volume (L)	6	6	6	6	6
Ambient Temp (°F)	52	52	52	55	60
Barometric Pressure (inHg)	30.1	30.1	30.1	30.1	30.1

Leak Test Information

Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	14.3	14.3	15.8	14.7	14.1
He Detected in Leak Test (Y or N)	No	No	No	No	No
He Conc. Detected in Leak Test (ppm)	0	0	0	0	0
Percent of He in the Leak Test versus the Shroud	0.000%	0.000%	0.000%	0.000%	0.000%
Leak Test Passed (Yes/No)[1]	Yes	Yes	Yes	Yes	Yes

Purge Information

Enter Construction Details →	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)	0.17" ID Total Tubing (ft)	0.25" ID Total Tubing (in)	Sand Pack Interval (in)
	8	0	36	8	0	36	6.5	0	30	9	0	48	6.5	0	30
Sand Pack Interval Depth (in-bgs)	60	to	96	60	to	96	48	to	78	60	to	108	48	to	78
Volume (mL)	785			785			653			1039			653		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	11.8			11.8			9.8			15.6			9.8		
Actual Purge Time (min)	12.0			12.0			10.0			16.0			10.0		

Sample Collection

Start Time	09:41	09:41	09:56	10:14	10:24
Initial Vacuum (inHg)	30	29	28	27	30
End Time	10:41	10:41	10:56	11:14	11:24
Final Vacuum (inHg)	7	8	7	6	9
Approximate Total Time (min)	60	60	60	60	60
Sample Analysis	VOCs by TO-15	VOCs by TO-15	VOCs by TO-15		

Sampler Information

Sampled by: Logan Hester Sampler Signature: Date: 1/8/2026

Notes: 1. Per the NCDEQ DWM VI Guidance dated March 2018, the helium concentration detected during the leak test shall not exceed 10% of the helium concentration in the shroud.

2. SGP-DUP-07 is taken at record sample SGP-54-H

Revision Date: 5/3/18 11:30

LANDFILL GAS SCREENING FORM

Project Name:	**Cliffdale LF**	Location:	7583 Lowell Harris Rd	**Meter Type/ Meter Name/ Serial No.:**			
NCDEQ ID No.:	**NCD980502900**	Date:	10/23/2025	Gas Analyzer	GEM 5000	500537	
S&ME Project No.:	**23050459**	Weather:	Sunny	PID	Mini Rae 3000		Pre Calibration Time:
Task Order:	**RI-16**	S&ME Personnel:	Logan Hester	Thermo Hygrometer	PROTMEX		Post Calibration Time:

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA		PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA
Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.9%		Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.7%
Methane High	CH_4 (50%) =	50.0%	CO_2 (35%) =	35.0%		Methane High	CH_4 (50%) =	50.2%	CO_2 (35%) =	34.8%
	O_2 (0%) =	0.0%					O_2 (0%)=	0.0%		
H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	18.0%		H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	17.9%
	H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm			H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm

Screening Data

Sample Location	**Time**	**VOCs**		**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulfide**	**Barometric Pressure**	**Temperature**	**Humidity**
ID	**hr:min**	**ppm-v**	**%**	**volume in air (%)**	**% LEL (100% LEL = 5% CH4)**	**%**	**%**	**ppm-v**	**in-Hg**	**°F**	**%**
BG-1	09:30	0.0	0	0.0	0	0.4	20.3	0	30.04	54.0	57
BG-2	09:35	0.0	0	0.0	0	0.4	20.3	0	30.04	54.0	57
SGP-30-H	09:50	0.0	0	0.0	0	0.4	20.3	0	29.77	55.0	>>>100
SGP-30	09:55	0.0	0	0.0	0	0.6	20.2	0	30.02	55.0	56
SGP-59-H	10:03	0.0	0	0.0	0	1.1	19.9	0	29.99	57.0	54
SGP-59	10:06	0.0	0	0.0	0	0.8	20.4	0	30.01	57.0	53
SGP-32-H	10:10	0.0	0	0.0	0	0.7	20.5	0	30.01	57.0	52
SGP-32	10:12	0.0	0	0.0	0	3.7	18.7	0	30.01	58.0	52
SGP-31-H	13:14	0.0	0	0.0	0	1.9	18.2	0	29.98	69.0	32
SGP-31	13:16	0.6	0	4.2	84	14.1	1.6	0	29.80	69.0	32
SGP-33-H	13:21	0.0	0	0.0	0	2.6	19.7	0	29.94	69.0	32
SGP-33	13:23	0.0	0	0.0	0	1.1	19.9	0	29.96	69.0	31
SGP-49-H	13:28	0.0	0	0.0	0	0.7	19.7	0	29.95	69.0	31
SGP-49	13:30	0.0	0	0.0	0	2.6	18.0	0	29.95	69.0	31
SGP-34-H	13:34	0.0	0	0.0	0	1.0	19.7	0	29.95	70.0	31
SGP-34	13:36	2.0		2.6	52	21.7	0.3	0	29.94	70.0	31
SGP-35-H	13:42	0.0	0	0.0	0	7.6	9.9	0	29.94	70.0	31
SGP-35	123:44	0.0	0	11.5	>>>100	26.6	0.1	1	29.94	70.0	31
SGP-50-H	13:49	1.2		32.9	>>>100	32.2	0.2	0	29.94	70.0	31
SGP-50	13:51	1.2		23.1	>>>100	32.7	0.1	0	29.94	70.0	30
SGP-37-H	13:55	0.0		0.0	0	5.8	15.4	0	29.93	70.0	30
SGP-37	13:58	0.0	0	38.8	>>>100	43.9	0.2	1	29.94	70.0	30
SGP-38-H	14:04	0.0	0	0.0	0	2.0	18.5	0	29.94	70.0	30

Name	**Signature**	**Date**	**Notes:**
(1) Logan Hester	Logan Hester	10/23/2025	

LANDFILL GAS SCREENING FORM

Project Name:	**Cliffdale LF**	Location:	7583 Lowell Harris Rd	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NCD980502900**	Date:	10/23/2025	Gas Analyzer	GEM 5000	500537		
S&ME Project No.:	**23050459**	Weather:	Sunny	PID	Mini Rae 3000		Pre Calibration Time:	
Task Order:	**RI-16**	S&ME Personnel:	Logan Hester	Thermo Hygrometer	PROTMEX		Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA		PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA
Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.9%		Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.7%
Methane High	CH_4 (50%) =	50.0%	CO_2 (35%) =	35.0%		Methane High	CH_4 (50%) =	50.2%	CO_2 (35%) =	34.8%
	O_2 (0%) =	0.0%					O_2 (0%)=	0.0%		
H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	18.0%		H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	17.9%
	H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm			H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm

Screening Data

Sample Location	**Time**	**VOCs**		**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulfide**	**Barometric Pressure**	**Temperature**	**Humidity**
ID	**hr:min**	**ppm-v**	**%**	**volume in air (%)**	**% LEL (100% LEL = 5% CH4)**	**%**	**%**	**ppm-v**	**in-Hg**	**°F**	**%**
SGP-38	14:06	0.0	0	0.0	0	2.5	18.0	0	29.94	70.0	30
SGP-39-H	14:10	0.0	0	0.0	0	3.1	18.6	0	29.93	70.0	30
SGP-39	13:12	0.0	0	9.1	>>>100	17.0	8.1	0	29.94	70.0	30
SGP-51-H	14:16	0.0	0	0.0	0	7.3	12.3	0	29.94	70.0	30
SGP-51	14:18	0.0	0	0.0	0	1.1	20.1	0	29.94	71.0	30
SGP-40-H	14:25	0.0	0	0.0	0	1.1	18.0	0	29.95	71.0	30
SGP-40	14:27	0.0	0	0.0	0	0.6	20.5	0	29.94	71.0	30
SGP-41-H	14:31	0.0	0	0.0	0	1.5	19.8	0	29.94	71.0	30
SGP-41	14:33	0.0	0	0.0	0	0.8	20.3	0	29.93	71.0	30
SGP-42-H	14:38	0.0	0	0.0	0	3.4	18.3	0	29.94	71.0	30
SGP-42	14:41	0.0	0	0.0	0	6.0	15.6	0	29.93	71.0	30
SGP-52-H	14:46	1.4		30.3	>>>100	6.1	11.2	0	29.93	71.0	30
SGP-52	14:49	1.1		4.9	98	9.1	13.2	0	29.93	71.0	31
SGP-55-H	14:58	0.0	0	0.0	0	0.6	19.1	0	29.92	71.0	31
SGP-55	15:00	0.2	0	0.0	0	2.6	18.8	0	29.93	71.0	31
SGP-54-H	15:04	0.0	0	0.0	0	5.4	13.0	0	29.94	71.0	31
SGP-54	15:07	0.0	0	0.0	0	4.6	13.9	0	29.94	71.0	31
SGP-44-H	15:10	0.0	0	0.0	0	10.7	8.4	0	29.92	71.0	31
SGP-44	15:14	0.0	0	0.0	0	2.8	18.6	0	29.93	71.0	31
SGP-45-H	15:18	0.0	0	0.0	0	0.8	20.5	0	29.92	71.0	30
SGP-45	15:21	0.0	0	0.0	0	0.4	21.1	0	29.93	71.0	30
SGP-46-H	15:25	0.0	0	0.0	0	0.9	20.1	0	29.92	71.0	30
SGP-46	15:27	0.0	0	0.0	0	1.0	20.3	0	29.93	71.0	30

Name	**Signature**	**Date**	**Notes:**
(1) Logan Hester	Logan Hester	10/23/2025	

LANDFILL GAS SCREENING FORM

Project Name:	**Cliffdale LF**	Location:	7583 Lowell Harris Rd	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NCD980502900**	Date:	10/24/2025	Gas Analyzer	GEM 5000	500537		
S&ME Project No.:	**23050459**	Weather:	Sunny	PID	Mini Rae 3000		Pre Calibration Time:	
Task Order:	**RI-16**	S&ME Personnel:	Logan Hester	Thermo Hygrometer	PROTMEX		Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA		PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA
Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.9%		Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.7%
Methane High	CH_4 (50%) =	50.0%	CO_2 (35%) =	35.0%		Methane High	CH_4 (50%) =	50.2%	CO_2 (35%) =	34.8%
	O_2 (0%) =	0.0%					O_2 (0%)=	0.0%		
H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	18.0%		H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	17.9%
	H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm			H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm

Screening Data

Sample Location	**Time**	**VOCs**		**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulfide**	**Barometric Pressure**	**Temperature**	**Humidity**
ID	**hr:min**	**ppm-v**	**%**	**volume in air (%)**	**% LEL (100% LEL = 5% CH4)**	**%**	**%**	**ppm-v**	**in-Hg**	**°F**	**%**
SGP-57-H	09:00	0.0	0	0.0	0	0.1	21.2	0	29.99	50.0	71
SGP-57	09:04	0.0	0	0.0	0	1.5	20.3	0	30.08	50.0	71
SGP-58-H	09:11	0.0	0	0.0	0	0.5	21.4	0	30.09	50.0	71
SGP-58	09:14	0.0	0	0.0	0	0.4	21.1	0	30.09	50.0	69
SGP-47-H	09:16	0.0	0	0.0	0	0.5	21.0	0	30.07	51.0	68
SGP-47	09:19	0.0	0	0.0	0	0.1	21.3	0	30.08	51.0	68
SGP-48-H	09:23	0.0	0	0.0	0	0.2	21.3	0	30.08	51.0	67
SGP-48	09:25	0.0	0	0.0	0	0.2	21.2	0	30.08	51.0	67
SGP-56-H	09:28	0.0	0	0.0	0	2.3	19.4	0	30.09	51.0	66
SGP-56	09:31	0.0	0	0.0	0	2.2	19.6	0	30.09	52.0	66
SGP-36-H	09:47	0.0	0	0.0	0	0.1	21.3	0	30.00	55.0	66
SGP-36	09:50	0.0	0	24.5	>>>100	17.3	11.1	0	30.08	52.0	66
SGP-53-H	09:52	0.0	0	0.0	0	0.2	21.2	0	30.09	53.0	65
SGP-53	09:55	0.0	0	0.0	0	0.2	21.1	0	30.08	54.0	65
SGP-43-H	09:57	0.0	0	0.0	0	0.3	21.3	0	30.08	54.0	64
SGP-43	09:59	0.0	0	0.0	0	0.5	21.2	0	30.07	54.0	63

Name	**Signature**	**Date**	**Notes:**
(1) Logan Hester	Logan Hester	10/23/2025	

LANDFILL GAS SCREENING FORM

Project Name:	**Cliffdale LF**	Location:	7583 Lowell Harris Rd	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NCD980502900**	Date:	10/24/2025	Gas Analyzer	GEM 5000	500537		
S&ME Project No.:	**23050459**	Weather:	Sunny	PID	Mini Rae 3000		Pre Calibration Time:	
Task Order:	**RI-16**	S&ME Personnel:	Logan Hester	Thermo Hygrometer	PROTMEX		Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA		PID (Isobutylene)	0 ppm =	NA	100 ppm =	NA
Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.9%		Fresh Air	CH_4 (0%) =	0.0%	O_2 (20.9%) =	20.7%
Methane High	CH_4 (50%) =	50.0%	CO_2 (35%) =	35.0%		Methane High	CH_4 (50%) =	50.2%	CO_2 (35%) =	34.8%
	O_2 (0%) =	0.0%					O_2 (0%)=	0.0%		
H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	18.0%		H2S Mix	CH_4 (2.5%) =	2.5%	O_2 (18%) =	17.9%
	H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm			H_2S (10 ppm) =	10 ppm	CO (50 ppm) =	50 ppm

Screening Data

Sample Location	**Time**	**VOCs**		**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulfide**	**Barometric Pressure**	**Temperature**	**Humidity**
ID	**hr:min**	**ppm-v**	**%**	**volume in air (%)**	**% LEL (100% LEL = 5% CH4)**	**%**	**%**	**ppm-v**	**in-Hg**	**°F**	**%**
SGP-5	10:22	0.0	0	29.2	>>>100	28.4	0.2	2	30.02	58.0	42
SGP-2	10:28	0.0	0	46.9	>>>100	40.6	40.7	4	30.08	58.0	40
SGP-3	10:33	0.0	0	0.0	0	20.9	3.7	0	30.09	58.0	40
SGP-4	10:39	1.8		27.1	>>>100	28.8	0.3	0	30.10	59.0	40
SGP-9	10:45	1.3		57.0	>>>100	42.1	0.4	0	30.10	59.0	40
SGP-8	10:50	2.3		61.2	>>>100	38.5	0.2	7	30.09	59.0	40
SGP-7	10:54	1.7		60.1	>>>100	39.7	0.2	2	30.09	60.0	39
SGP-10	11:02	1.4		52.2	>>>100	47.5	0.2	21	30.09	60.0	38
SGP-11	11:08	0.0	0	21.1	>>>100	25.0	5.9	0	30.09	61.0	37
SGP-13	11:15	0.0	0	0.0	0	14.1	9.3	0	30.09	61.0	37
SGP-19	11:20	0.0	0	50.9	>>>100	49.1	0.3	6	30.10	61.0	37
SGP-20	11:25	0.0	0	55.3	>>>100	43.4	0.4	2	30.08	62.0	36
SGP-27	11:30	0.0	0	54.6	>>>100	45.2	0.1	1	30.09	62.0	35
SGP-29	11:34	0.0	0	30.9	>>>100	28.8	0.2	0	30.10	63.0	33
SGP-23	11:44	0.0	0	61.0	>>>100	39.8	0.5	10	30.12	63.0	33
SGP-22	11:50	1.9		52.3	>>>100	47.5	0.2	20	30.10	63.0	33
SGP-1	12:00	0.0	0	22.6	>>>100	24.2	0.3	1	30.10	64.0	33
SGP-14	12:07	2.4		59.0	>>>100	48.6	0.2	1	30.11	65.0	32

Name	**Signature**	**Date**	**Notes:**
(1) Logan Hester	Logan Hester	10/23/2025	**Soil Gas Implants SGI-6, 12, 18, 25 and 26 were not screened due to water present in the probes.**

Appendix III- Laboratory Reports and Chains of Custody

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Analytical Report

11/4/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650A

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650A

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/04/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGP-30-H	TO-15	8.2 "Hg	1.9 psi
01B	SGP-30-H	TO-15	8.2 "Hg	1.9 psi
02A	SGP-DUP-01	TO-15	9.2 "Hg	1.9 psi
02B	SGP-DUP-01	TO-15	9.2 "Hg	1.9 psi
03A	SGP-30	TO-15	9.2 "Hg	1.8 psi
03B	SGP-30	TO-15	9.2 "Hg	1.8 psi
04A	SGP-31-H	TO-15	8.2 "Hg	1.7 psi
04B	SGP-31-H	TO-15	8.2 "Hg	1.7 psi
05A	SGP-31	TO-15	9 "Hg	1.9 psi
05B	SGP-31	TO-15	9 "Hg	1.9 psi
06A	SGP-32-H	TO-15	9.4 "Hg	1.9 psi
06B	SGP-32-H	TO-15	9.4 "Hg	1.9 psi
07A	SGP-32	TO-15	9.2 "Hg	1.8 psi
07B	SGP-32	TO-15	9.2 "Hg	1.8 psi
08A	SGP-59-H	TO-15	19.6 "Hg	2.6 psi
08B	SGP-59-H	TO-15	19.6 "Hg	2.6 psi
09A	SGP-DUP-02	TO-15	11.8 "Hg	2.9 psi
09B	SGP-DUP-02	TO-15	11.8 "Hg	2.9 psi
10A	SGP-59	TO-15	10 "Hg	1.8 psi
10B	SGP-59	TO-15	10 "Hg	1.8 psi
11A	SGP-33-H	TO-15	10.8 "Hg	1.8 psi
11B	SGP-33-H	TO-15	10.8 "Hg	1.8 psi
12A	SGP-33	TO-15	8 "Hg	1.9 psi

Continued on next page

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WORK ORDER #: 2510650A

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/04/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
12B	SGP-33	TO-15	8 "Hg	1.9 psi
13A	Lab Blank	TO-15	NA	NA
13B	Lab Blank	TO-15	NA	NA
13C	Lab Blank	TO-15	NA	NA
13D	Lab Blank	TO-15	NA	NA
14A	CCV	TO-15	NA	NA
14B	CCV	TO-15	NA	NA
14C	CCV	TO-15	NA	NA
14D	CCV	TO-15	NA	NA
15A	LCS	TO-15	NA	NA
15AA	LCSD	TO-15	NA	NA
15B	LCS	TO-15	NA	NA
15BB	LCSD	TO-15	NA	NA
15C	LCS	TO-15	NA	NA
15CC	LCSD	TO-15	NA	NA
15D	LCS	TO-15	NA	NA
15DD	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/04/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
EPA Method TO-15 (Hybrid)
S & ME, Inc.
Workorder# 2510650A

Twelve 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes.

Receiving Notes

The Chain of Custody (COC) information for sample SGP-31-H did not match the information on the canister with regard to canister barcode. The sample labeled 6L0831 on the COC is labeled as 6L0381 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Sample SGP-59-H was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Dilution was performed on sample SGP-31 due to matrix interference.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-30-H

Lab ID#: 2510650A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.8	12	15	22
Acetone	7.8	9.6	18	23
2-Propanol	3.1	6.2	7.6	15

Client Sample ID: SGP-30-H

Lab ID#: 2510650A-01B

No Detections Were Found.

Client Sample ID: SGP-DUP-01

Lab ID#: 2510650A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.2	20	15	37
2-Propanol	3.3	6.2	8.0	15

Client Sample ID: SGP-DUP-01

Lab ID#: 2510650A-02B

No Detections Were Found.

Client Sample ID: SGP-30

Lab ID#: 2510650A-03A

No Detections Were Found.

Client Sample ID: SGP-30

Lab ID#: 2510650A-03B

No Detections Were Found.

Client Sample ID: SGP-31-H

Lab ID#: 2510650A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-31-H

Lab ID#: 2510650A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	0.77	4.2	5.4	29
2-Propanol	3.1	3.5	7.6	8.7
2,2,4-Trimethylpentane	0.77	0.85	3.6	4.0

Client Sample ID: SGP-31-H

Lab ID#: 2510650A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.15	0.71	0.75	3.5

Client Sample ID: SGP-31

Lab ID#: 2510650A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	10	8.0	52
Freon 114	1.6	62	11	430
Hexane	1.6	2.8	5.7	9.8
Cyclohexane	1.6	8.4	5.6	29
2,2,4-Trimethylpentane	1.6	120	7.5	590

Client Sample ID: SGP-31

Lab ID#: 2510650A-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.32	4.2	1.6	20

Client Sample ID: SGP-32-H

Lab ID#: 2510650A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	3.3	4.3	8.1	11

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-32-H

Lab ID#: 2510650A-06B

No Detections Were Found.

Client Sample ID: SGP-32

Lab ID#: 2510650A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.81	2.6	4.0	13
Freon 114	0.81	6.1	5.7	42
Acetone	8.1	9.6	19	23

Client Sample ID: SGP-32

Lab ID#: 2510650A-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	0.23	0.79	1.1

Client Sample ID: SGP-59-H

Lab ID#: 2510650A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	17	20	40	48

Client Sample ID: SGP-59-H

Lab ID#: 2510650A-08B

No Detections Were Found.

Client Sample ID: SGP-DUP-02

Lab ID#: 2510650A-09A

No Detections Were Found.

Client Sample ID: SGP-DUP-02

Lab ID#: 2510650A-09B

No Detections Were Found.

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-59

Lab ID#: 2510650A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.4	8.3 J	16	16 J
Bromodichloromethane	0.84	0.96	5.6	6.4

Client Sample ID: SGP-59

Lab ID#: 2510650A-10B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	20	0.82	100

Client Sample ID: SGP-33-H

Lab ID#: 2510650A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.8	9.9 J0	16	19 J0

Client Sample ID: SGP-33-H

Lab ID#: 2510650A-11B

No Detections Were Found.

Client Sample ID: SGP-33

Lab ID#: 2510650A-12A

No Detections Were Found.

Client Sample ID: SGP-33

Lab ID#: 2510650A-12B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.15	0.22	0.75	1.0

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Client Sample ID: SGP-30-H

Lab ID#: 2510650A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110328**	**Date of Collection:**	**10/13/25 11:08:00 A**
Dil. Factor:	**1.55**	**Date of Analysis:**	**11/4/25 07:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.8	Not Detected
Freon 114	0.78	Not Detected	5.4	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.0	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	7.8	12	15	22
Freon 113	0.78	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	7.8	9.6	18	23
2-Propanol	3.1	6.2	7.6	15
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	1.6	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.6	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	5.8	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.7	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-30-H

Lab ID#: 2510650A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110328**	**Date of Collection: 10/13/25 11:08:00 A**	
Dil. Factor:	**1.55**	**Date of Analysis: 11/4/25 07:22 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.78	Not Detected	8.0	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-30-H

Lab ID#: 2510650A-01B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110328sim**	**Date of Collection: 10/13/25 11:08:00 A**	
Dil. Factor:	**1.55**	**Date of Analysis: 11/4/25 07:22 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.078	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.76	Not Detected
Benzene	0.31	Not Detected	0.99	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.078	Not Detected	0.42	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.078	Not Detected	0.53	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SGP-DUP-01

Lab ID#: 2510650A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110316**	**Date of Collection:**	**10/13/25 11:08:00 A**
Dil. Factor:	**1.63**	**Date of Analysis:**	**11/3/25 07:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.3	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	20	15	37
Freon 113	0.82	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
2-Propanol	3.3	6.2	8.0	15
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.6	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.4	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	Not Detected	5.5	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Dibromochloromethane	0.82	Not Detected	6.9	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	0.82	Not Detected	3.5	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-DUP-01

Lab ID#: 2510650A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110316**	**Date of Collection:**	**10/13/25 11:08:00 A**
Dil. Factor:	**1.63**	**Date of Analysis:**	**11/3/25 07:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.4	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: SGP-DUP-01

Lab ID#: 2510650A-02B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110316sim**	**Date of Collection: 10/13/25 11:08:00 A**	
Dil. Factor:	**1.63**	**Date of Analysis: 11/3/25 07:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.56	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SGP-30

Lab ID#: 2510650A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110317**	**Date of Collection:**	**10/13/25 11:23:00 A**
Dil. Factor:	**1.62**	**Date of Analysis:**	**11/3/25 09:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.81	Not Detected	4.0	Not Detected
Freon 114	0.81	Not Detected	5.7	Not Detected
Chloromethane	8.1	Not Detected	17	Not Detected
1,3-Butadiene	0.81	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.3	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.81	Not Detected	4.6	Not Detected
Ethanol	8.1	Not Detected	15	Not Detected
Freon 113	0.81	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Acetone	8.1	Not Detected	19	Not Detected
2-Propanol	3.2	Not Detected	8.0	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.81	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Hexane	0.81	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.81	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.6	Not Detected
cis-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.81	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.81	Not Detected	4.4	Not Detected
Cyclohexane	0.81	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.81	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.81	Not Detected	3.8	Not Detected
Heptane	0.81	Not Detected	3.3	Not Detected
Trichloroethene	0.81	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.81	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.81	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.81	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.81	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.81	Not Detected	3.7	Not Detected
Tetrachloroethene	0.81	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.81	Not Detected	6.9	Not Detected
Chlorobenzene	0.81	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.81	Not Detected	3.5	Not Detected
Styrene	0.81	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-30

Lab ID#: 2510650A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110317**	**Date of Collection: 10/13/25 11:23:00 A**	
Dil. Factor:	**1.62**	**Date of Analysis: 11/3/25 09:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.81	Not Detected	8.4	Not Detected
Cumene	0.81	Not Detected	4.0	Not Detected
Propylbenzene	0.81	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.81	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.81	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.81	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.81	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SGP-30

Lab ID#: 2510650A-03B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110317sim**	**Date of Collection:**	**10/13/25 11:23:00 A**
Dil. Factor:	**1.62**	**Date of Analysis:**	**11/3/25 09:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.081	Not Detected	0.21	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.081	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.081	Not Detected	0.56	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SGP-31-H

Lab ID#: 2510650A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110318**	**Date of Collection:**	**10/13/25 11:45:00 A**
Dil. Factor:	**1.54**	**Date of Analysis:**	**11/3/25 09:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.77	Not Detected	3.8	Not Detected
Freon 114	0.77	4.2	5.4	29
Chloromethane	7.7	Not Detected	16	Not Detected
1,3-Butadiene	0.77	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	6.0	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
Freon 11	0.77	Not Detected	4.3	Not Detected
Ethanol	7.7	Not Detected	14	Not Detected
Freon 113	0.77	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Acetone	7.7	Not Detected	18	Not Detected
2-Propanol	3.1	3.5	7.6	8.7
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
3-Chloropropene	0.77	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Hexane	0.77	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.77	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
cis-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.77	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.77	Not Detected	4.2	Not Detected
Cyclohexane	0.77	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.77	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.77	0.85	3.6	4.0
Heptane	0.77	Not Detected	3.2	Not Detected
Trichloroethene	0.77	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.77	Not Detected	3.6	Not Detected
1,4-Dioxane	1.5	Not Detected	5.5	Not Detected
Bromodichloromethane	0.77	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.77	Not Detected	3.2	Not Detected
Toluene	1.5	Not Detected	5.8	Not Detected
trans-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
Tetrachloroethene	0.77	Not Detected	5.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.77	Not Detected	6.6	Not Detected
Chlorobenzene	0.77	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.7	Not Detected
o-Xylene	0.77	Not Detected	3.3	Not Detected
Styrene	0.77	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-31-H

Lab ID#: 2510650A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110318**	**Date of Collection: 10/13/25 11:45:00 A**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/3/25 09:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.77	Not Detected	8.0	Not Detected
Cumene	0.77	Not Detected	3.8	Not Detected
Propylbenzene	0.77	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.77	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.77	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SGP-31-H

Lab ID#: 2510650A-04B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110318sim**	**Date of Collection: 10/13/25 11:45:00 A**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/3/25 09:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.077	Not Detected	0.20	Not Detected
Chloroform	0.15	0.71	0.75	3.5
Benzene	0.31	Not Detected	0.98	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.077	Not Detected	0.42	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.077	Not Detected	0.53	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-31

Lab ID#: 2510650A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110320**	**Date of Collection:**	**10/13/25 12:12:00 P**
Dil. Factor:	**3.23**	**Date of Analysis:**	**11/3/25 10:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	10	8.0	52
Freon 114	1.6	62	11	430
Chloromethane	16	Not Detected	33	Not Detected
1,3-Butadiene	1.6	Not Detected	3.6	Not Detected
Bromomethane	3.2	Not Detected	12	Not Detected
Chloroethane	6.5	Not Detected	17	Not Detected
Freon 11	1.6	Not Detected	9.1	Not Detected
Ethanol	16	Not Detected	30	Not Detected
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Acetone	16	Not Detected	38	Not Detected
2-Propanol	6.5	Not Detected	16	Not Detected
Carbon Disulfide	6.5	Not Detected	20	Not Detected
3-Chloropropene	1.6	Not Detected	5.0	Not Detected
Methylene Chloride	3.2	Not Detected	11	Not Detected
Methyl tert-butyl ether	6.5	Not Detected	23	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Hexane	1.6	2.8	5.7	9.8
1,1-Dichloroethane	1.6	Not Detected	6.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.5	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.8	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.8	Not Detected
Cyclohexane	1.6	8.4	5.6	29
Carbon Tetrachloride	1.6	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	1.6	120	7.5	590
Heptane	1.6	Not Detected	6.6	Not Detected
Trichloroethene	1.6	Not Detected	8.7	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.5	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
Bromodichloromethane	1.6	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.3	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.6	Not Detected
Toluene	3.2	Not Detected	12	Not Detected
trans-1,3-Dichloropropene	1.6	Not Detected	7.3	Not Detected
Tetrachloroethene	1.6	Not Detected	11	Not Detected
2-Hexanone	6.5	Not Detected	26	Not Detected
Dibromochloromethane	1.6	Not Detected	14	Not Detected
Chlorobenzene	1.6	Not Detected	7.4	Not Detected
m,p-Xylene	3.2	Not Detected	14	Not Detected
o-Xylene	1.6	Not Detected	7.0	Not Detected
Styrene	1.6	Not Detected	6.9	Not Detected

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Client Sample ID: SGP-31

Lab ID#: 2510650A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110320**	**Date of Collection: 10/13/25 12:12:00 P**	
Dil. Factor:	**3.23**	**Date of Analysis: 11/3/25 10:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	1.6	Not Detected	17	Not Detected
Cumene	1.6	Not Detected	7.9	Not Detected
Propylbenzene	1.6	Not Detected	7.9	Not Detected
4-Ethyltoluene	1.6	Not Detected	7.9	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.9	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected	7.9	Not Detected
1,3-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.4	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
1,2,4-Trichlorobenzene	6.5	Not Detected	48	Not Detected
Hexachlorobutadiene	6.5	Not Detected	69	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	114	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: SGP-31

Lab ID#: 2510650A-05B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110320sim**	**Date of Collection: 10/13/25 12:12:00 P**	
Dil. Factor:	**3.23**	**Date of Analysis: 11/3/25 10:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
Chloroform	0.32	4.2	1.6	20
Benzene	0.65	Not Detected	2.1	Not Detected
1,2-Dichloroethane	0.32	Not Detected	1.3	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.88	Not Detected
1,2-Dibromoethane (EDB)	0.065	Not Detected	0.50	Not Detected
Ethyl Benzene	0.65	Not Detected	2.8	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Naphthalene	0.65	Not Detected	3.4	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: SGP-32-H

Lab ID#: 2510650A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110321**	**Date of Collection:**	**10/13/25 12:47:00 P**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/3/25 10:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	Not Detected	15	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
2-Propanol	3.3	4.3	8.1	11
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	1.6	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-32-H

Lab ID#: 2510650A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110321**	**Date of Collection: 10/13/25 12:47:00 P**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/3/25 10:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

eurofins | Air Toxics

Client Sample ID: SGP-32-H

Lab ID#: 2510650A-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110321sim**	**Date of Collection:**	**10/13/25 12:47:00 P**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/3/25 10:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.56	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-32

Lab ID#: 2510650A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110322**	**Date of Collection:**	**10/13/25 12:58:00 P**
Dil. Factor:	**1.62**	**Date of Analysis:**	**11/3/25 11:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.81	2.6	4.0	13
Freon 114	0.81	6.1	5.7	42
Chloromethane	8.1	Not Detected	17	Not Detected
1,3-Butadiene	0.81	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.3	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.81	Not Detected	4.6	Not Detected
Ethanol	8.1	Not Detected	15	Not Detected
Freon 113	0.81	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Acetone	8.1	9.6	19	23
2-Propanol	3.2	Not Detected	8.0	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.81	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Hexane	0.81	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.81	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.6	Not Detected
cis-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.81	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.81	Not Detected	4.4	Not Detected
Cyclohexane	0.81	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.81	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.81	Not Detected	3.8	Not Detected
Heptane	0.81	Not Detected	3.3	Not Detected
Trichloroethene	0.81	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.81	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.81	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.81	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.81	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.81	Not Detected	3.7	Not Detected
Tetrachloroethene	0.81	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.81	Not Detected	6.9	Not Detected
Chlorobenzene	0.81	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.81	Not Detected	3.5	Not Detected
Styrene	0.81	Not Detected	3.4	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-32

Lab ID#: 2510650A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110322**	**Date of Collection: 10/13/25 12:58:00 P**	
Dil. Factor:	**1.62**	**Date of Analysis: 11/3/25 11:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.81	Not Detected	8.4	Not Detected
Cumene	0.81	Not Detected	4.0	Not Detected
Propylbenzene	0.81	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.81	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.81	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.81	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.81	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: SGP-32

Lab ID#: 2510650A-07B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110322sim**	**Date of Collection: 10/13/25 12:58:00 P**	
Dil. Factor:	**1.62**	**Date of Analysis: 11/3/25 11:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.081	Not Detected	0.21	Not Detected
Chloroform	0.16	0.23	0.79	1.1
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.081	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.081	Not Detected	0.56	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SGP-59-H

Lab ID#: 2510650A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110323**	**Date of Collection:**	**10/14/25 12:28:00 P**
Dil. Factor:	**3.39**	**Date of Analysis:**	**11/3/25 11:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.7	Not Detected	8.4	Not Detected
Freon 114	1.7	Not Detected	12	Not Detected
Chloromethane	17	Not Detected	35	Not Detected
1,3-Butadiene	1.7	Not Detected	3.7	Not Detected
Bromomethane	3.4	Not Detected	13	Not Detected
Chloroethane	6.8	Not Detected	18	Not Detected
Freon 11	1.7	Not Detected	9.5	Not Detected
Ethanol	17	Not Detected	32	Not Detected
Freon 113	1.7	Not Detected	13	Not Detected
1,1-Dichloroethene	1.7	Not Detected	6.7	Not Detected
Acetone	17	20	40	48
2-Propanol	6.8	Not Detected	17	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	1.7	Not Detected	5.3	Not Detected
Methylene Chloride	3.4	Not Detected	12	Not Detected
Methyl tert-butyl ether	6.8	Not Detected	24	Not Detected
trans-1,2-Dichloroethene	1.7	Not Detected	6.7	Not Detected
Hexane	1.7	Not Detected	6.0	Not Detected
1,1-Dichloroethane	1.7	Not Detected	6.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.8	Not Detected	20	Not Detected
cis-1,2-Dichloroethene	1.7	Not Detected	6.7	Not Detected
Tetrahydrofuran	1.7	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.7	Not Detected	9.2	Not Detected
Cyclohexane	1.7	Not Detected	5.8	Not Detected
Carbon Tetrachloride	1.7	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	1.7	Not Detected	7.9	Not Detected
Heptane	1.7	Not Detected	6.9	Not Detected
Trichloroethene	1.7	Not Detected	9.1	Not Detected
1,2-Dichloropropane	1.7	Not Detected	7.8	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
Bromodichloromethane	1.7	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.7	Not Detected	7.7	Not Detected
4-Methyl-2-pentanone	1.7	Not Detected	6.9	Not Detected
Toluene	3.4	Not Detected	13	Not Detected
trans-1,3-Dichloropropene	1.7	Not Detected	7.7	Not Detected
Tetrachloroethene	1.7	Not Detected	11	Not Detected
2-Hexanone	6.8	Not Detected	28	Not Detected
Dibromochloromethane	1.7	Not Detected	14	Not Detected
Chlorobenzene	1.7	Not Detected	7.8	Not Detected
m,p-Xylene	3.4	Not Detected	15	Not Detected
o-Xylene	1.7	Not Detected	7.4	Not Detected
Styrene	1.7	Not Detected	7.2	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-59-H

Lab ID#: 2510650A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110323**	**Date of Collection: 10/14/25 12:28:00 P**	
Dil. Factor:	**3.39**	**Date of Analysis: 11/3/25 11:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	1.7	Not Detected	18	Not Detected
Cumene	1.7	Not Detected	8.3	Not Detected
Propylbenzene	1.7	Not Detected	8.3	Not Detected
4-Ethyltoluene	1.7	Not Detected	8.3	Not Detected
1,3,5-Trimethylbenzene	1.7	Not Detected	8.3	Not Detected
1,2,4-Trimethylbenzene	1.7	Not Detected	8.3	Not Detected
1,3-Dichlorobenzene	1.7	Not Detected	10	Not Detected
1,4-Dichlorobenzene	1.7	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.7	Not Detected	8.8	Not Detected
1,2-Dichlorobenzene	1.7	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	6.8	Not Detected	50	Not Detected
Hexachlorobutadiene	6.8	Not Detected	72	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-59-H

Lab ID#: 2510650A-08B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110323sim**	**Date of Collection:**	**10/14/25 12:28:00 P**
Dil. Factor:	**3.39**	**Date of Analysis:**	**11/3/25 11:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
Chloroform	0.34	Not Detected	1.6	Not Detected
Benzene	0.68	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.34	Not Detected	1.4	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
1,2-Dibromoethane (EDB)	0.068	Not Detected	0.52	Not Detected
Ethyl Benzene	0.68	Not Detected	2.9	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Naphthalene	0.68	Not Detected	3.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-DUP-02

Lab ID#: 2510650A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110324**	**Date of Collection:**	**10/14/25 12:28:00 P**
Dil. Factor:	**1.97**	**Date of Analysis:**	**11/4/25 12:20 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.98	Not Detected	4.9	Not Detected
Freon 114	0.98	Not Detected	6.9	Not Detected
Chloromethane	9.8	Not Detected	20	Not Detected
1,3-Butadiene	0.98	Not Detected	2.2	Not Detected
Bromomethane	2.0	Not Detected	7.6	Not Detected
Chloroethane	3.9	Not Detected	10	Not Detected
Freon 11	0.98	Not Detected	5.5	Not Detected
Ethanol	9.8	Not Detected	18	Not Detected
Freon 113	0.98	Not Detected	7.5	Not Detected
1,1-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Acetone	9.8	Not Detected	23	Not Detected
2-Propanol	3.9	Not Detected	9.7	Not Detected
Carbon Disulfide	3.9	Not Detected	12	Not Detected
3-Chloropropene	0.98	Not Detected	3.1	Not Detected
Methylene Chloride	2.0	Not Detected	6.8	Not Detected
Methyl tert-butyl ether	3.9	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Hexane	0.98	Not Detected	3.5	Not Detected
1,1-Dichloroethane	0.98	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.9	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
1,1,1-Trichloroethane	0.98	Not Detected	5.4	Not Detected
Cyclohexane	0.98	Not Detected	3.4	Not Detected
Carbon Tetrachloride	0.98	Not Detected	6.2	Not Detected
2,2,4-Trimethylpentane	0.98	Not Detected	4.6	Not Detected
Heptane	0.98	Not Detected	4.0	Not Detected
Trichloroethene	0.98	Not Detected	5.3	Not Detected
1,2-Dichloropropane	0.98	Not Detected	4.6	Not Detected
1,4-Dioxane	2.0	Not Detected	7.1	Not Detected
Bromodichloromethane	0.98	Not Detected	6.6	Not Detected
cis-1,3-Dichloropropene	0.98	Not Detected	4.5	Not Detected
4-Methyl-2-pentanone	0.98	Not Detected	4.0	Not Detected
Toluene	2.0	Not Detected	7.4	Not Detected
trans-1,3-Dichloropropene	0.98	Not Detected	4.5	Not Detected
Tetrachloroethene	0.98	Not Detected	6.7	Not Detected
2-Hexanone	3.9	Not Detected	16	Not Detected
Dibromochloromethane	0.98	Not Detected	8.4	Not Detected
Chlorobenzene	0.98	Not Detected	4.5	Not Detected
m,p-Xylene	2.0	Not Detected	8.6	Not Detected
o-Xylene	0.98	Not Detected	4.3	Not Detected
Styrene	0.98	Not Detected	4.2	Not Detected

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Client Sample ID: SGP-DUP-02

Lab ID#: 2510650A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110324**	**Date of Collection:**	**10/14/25 12:28:00 P**
Dil. Factor:	**1.97**	**Date of Analysis:**	**11/4/25 12:20 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.98	Not Detected	10	Not Detected
Cumene	0.98	Not Detected	4.8	Not Detected
Propylbenzene	0.98	Not Detected	4.8	Not Detected
4-Ethyltoluene	0.98	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,2,4-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,3-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,4-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
alpha-Chlorotoluene	0.98	Not Detected	5.1	Not Detected
1,2-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,2,4-Trichlorobenzene	3.9	Not Detected	29	Not Detected
Hexachlorobutadiene	3.9	Not Detected	42	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

eurofins | Air Toxics

Client Sample ID: SGP-DUP-02

Lab ID#: 2510650A-09B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110324sim**	**Date of Collection:**	**10/14/25 12:28:00 P**
Dil. Factor:	**1.97**	**Date of Analysis:**	**11/4/25 12:20 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.098	Not Detected	0.25	Not Detected
Chloroform	0.20	Not Detected	0.96	Not Detected
Benzene	0.39	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.20	Not Detected	0.80	Not Detected
1,1,2-Trichloroethane	0.098	Not Detected	0.54	Not Detected
1,2-Dibromoethane (EDB)	0.039	Not Detected	0.30	Not Detected
Ethyl Benzene	0.39	Not Detected	1.7	Not Detected
1,1,2,2-Tetrachloroethane	0.098	Not Detected	0.68	Not Detected
Naphthalene	0.39	Not Detected	2.1	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-59

Lab ID#: 2510650A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110325**	**Date of Collection:**	**10/14/25 10:36:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/4/25 12:49 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
Ethanol	8.4	8.3 J	16	16 J
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	Not Detected	20	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	9.9	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	0.96	5.6	6.4
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

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Client Sample ID: SGP-59

Lab ID#: 2510650A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110325**	**Date of Collection: 10/14/25 10:36:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 11/4/25 12:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.7	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-59

Lab ID#: 2510650A-10B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110325sim**	**Date of Collection: 10/14/25 10:36:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 11/4/25 12:49 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	20	0.82	100
Benzene	0.34	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.34	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.58	Not Detected
Naphthalene	0.34	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-33-H

Lab ID#: 2510650A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110215**	**Date of Collection:**	**10/14/25 11:10:00 A**
Dil. Factor:	**1.75**	**Date of Analysis:**	**11/2/25 04:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.88	Not Detected	4.3	Not Detected
Freon 114	0.88	Not Detected	6.1	Not Detected
Chloromethane	8.8	Not Detected	18	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Bromomethane	1.8	Not Detected	6.8	Not Detected
Chloroethane	3.5	Not Detected	9.2	Not Detected
Freon 11	0.88	Not Detected	4.9	Not Detected
Ethanol	8.8	9.9 J0	16	19 J0
Freon 113	0.88	Not Detected	6.7	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Acetone	8.8	Not Detected	21	Not Detected
2-Propanol	3.5	Not Detected	8.6	Not Detected
Carbon Disulfide	3.5	Not Detected	11	Not Detected
3-Chloropropene	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	1.8	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	13	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.5	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Heptane	0.88	Not Detected	3.6	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.0	Not Detected
1,4-Dioxane	1.8	Not Detected	6.3	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
Toluene	1.8	Not Detected	6.6	Not Detected
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
m,p-Xylene	1.8	Not Detected	7.6	Not Detected
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected

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Client Sample ID: SGP-33-H

Lab ID#: 2510650A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110215**	**Date of Collection: 10/14/25 11:10:00 A**	
Dil. Factor:	**1.75**	**Date of Analysis: 11/2/25 04:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.88	Not Detected	9.0	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-33-H

Lab ID#: 2510650A-11B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110215sim**	**Date of Collection: 10/14/25 11:10:00 A**	
Dil. Factor:	**1.75**	**Date of Analysis: 11/2/25 04:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.088	Not Detected	0.22	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
Benzene	0.35	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.71	Not Detected
1,1,2-Trichloroethane	0.088	Not Detected	0.48	Not Detected
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.35	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.088	Not Detected	0.60	Not Detected
Naphthalene	0.35	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-33

Lab ID#: 2510650A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110216**	**Date of Collection:**	**10/14/25 12:00:00 P**
Dil. Factor:	**1.54**	**Date of Analysis:**	**11/2/25 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.77	Not Detected	3.8	Not Detected
Freon 114	0.77	Not Detected	5.4	Not Detected
Chloromethane	7.7	Not Detected	16	Not Detected
1,3-Butadiene	0.77	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	6.0	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
Freon 11	0.77	Not Detected	4.3	Not Detected
Ethanol	7.7	Not Detected	14	Not Detected
Freon 113	0.77	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Acetone	7.7	Not Detected	18	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
3-Chloropropene	0.77	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Hexane	0.77	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.77	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
cis-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.77	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.77	Not Detected	4.2	Not Detected
Cyclohexane	0.77	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.77	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.77	Not Detected	3.6	Not Detected
Heptane	0.77	Not Detected	3.2	Not Detected
Trichloroethene	0.77	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.77	Not Detected	3.6	Not Detected
1,4-Dioxane	1.5	Not Detected	5.5	Not Detected
Bromodichloromethane	0.77	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.77	Not Detected	3.2	Not Detected
Toluene	1.5	Not Detected	5.8	Not Detected
trans-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
Tetrachloroethene	0.77	Not Detected	5.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.77	Not Detected	6.6	Not Detected
Chlorobenzene	0.77	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.7	Not Detected
o-Xylene	0.77	Not Detected	3.3	Not Detected
Styrene	0.77	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-33

Lab ID#: 2510650A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110216**	**Date of Collection: 10/14/25 12:00:00 P**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/2/25 04:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.77	Not Detected	8.0	Not Detected
Cumene	0.77	Not Detected	3.8	Not Detected
Propylbenzene	0.77	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.77	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.77	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-33

Lab ID#: 2510650A-12B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110216sim**	**Date of Collection: 10/14/25 12:00:00 P**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/2/25 04:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.077	Not Detected	0.20	Not Detected
Chloroform	0.15	0.22	0.75	1.0
Benzene	0.31	Not Detected	0.98	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.077	Not Detected	0.42	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.077	Not Detected	0.53	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 09:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 09:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650A-13B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 09:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650A-13C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110306c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 01:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650A-13C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110306c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 01:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650A-13D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110306simc**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 01:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 2510650A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 07:39 AM**

Compound	%Recovery
Freon 12	112
Freon 114	104
Chloromethane	111
1,3-Butadiene	120
Bromomethane	113
Chloroethane	118
Freon 11	103
Ethanol	133 Q
Freon 113	102
1,1-Dichloroethene	109
Acetone	112
2-Propanol	115
Carbon Disulfide	107
3-Chloropropene	118
Methylene Chloride	115
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	110
Hexane	124
1,1-Dichloroethane	116
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	112
Tetrahydrofuran	120
1,1,1-Trichloroethane	108
Cyclohexane	114
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	120
Heptane	117
Trichloroethene	106
1,2-Dichloropropane	113
1,4-Dioxane	106
Bromodichloromethane	112
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	120
Toluene	107
trans-1,3-Dichloropropene	116
Tetrachloroethene	104
2-Hexanone	124
Dibromochloromethane	107
Chlorobenzene	109
m,p-Xylene	113
o-Xylene	115
Styrene	116

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Client Sample ID: CCV

Lab ID#: 2510650A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 07:39 AM**	

Compound	%Recovery
Bromoform	105
Cumene	118
Propylbenzene	111
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 2510650A-14B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 07:39 AM**	

Compound	%Recovery
Vinyl Chloride	118
Chloroform	108
Benzene	110
1,2-Dichloroethane	103
1,1,2-Trichloroethane	109
1,2-Dibromoethane (EDB)	104
Ethyl Benzene	110
1,1,2,2-Tetrachloroethane	106
Naphthalene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 2510650A-14C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110302**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 11:32 AM**

Compound	%Recovery
Freon 12	101
Freon 114	102
Chloromethane	101
1,3-Butadiene	99
Bromomethane	109
Chloroethane	96
Freon 11	102
Ethanol	85
Freon 113	108
1,1-Dichloroethene	104
Acetone	91
2-Propanol	90
Carbon Disulfide	101
3-Chloropropene	109
Methylene Chloride	99
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	102
Hexane	111
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	109
Tetrahydrofuran	98
1,1,1-Trichloroethane	106
Cyclohexane	115
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	110
Heptane	110
Trichloroethene	100
1,2-Dichloropropane	99
1,4-Dioxane	97
Bromodichloromethane	100
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	110
Toluene	102
trans-1,3-Dichloropropene	102
Tetrachloroethene	105
2-Hexanone	106
Dibromochloromethane	104
Chlorobenzene	102
m,p-Xylene	112
o-Xylene	111
Styrene	113

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Client Sample ID: CCV

Lab ID#: 2510650A-14C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 11:32 AM**	

Compound	%Recovery
Bromoform	107
Cumene	115
Propylbenzene	111
4-Ethyltoluene	115
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	112
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	113

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 2510650A-14D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110302sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 11:32 AM**	

Compound	%Recovery
Vinyl Chloride	92
Chloroform	98
Benzene	99
1,2-Dichloroethane	94
1,1,2-Trichloroethane	96
1,2-Dibromoethane (EDB)	96
Ethyl Benzene	111
1,1,2,2-Tetrachloroethane	97
Naphthalene	129

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2510650A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:04 AM**	

Compound	%Recovery	Method Limits
Freon 12	111	70-130
Freon 114	102	70-130
Chloromethane	107	70-130
1,3-Butadiene	119	70-130
Bromomethane	114	70-130
Chloroethane	115	70-130
Freon 11	103	70-130
Ethanol	120	70-130
Freon 113	96	70-130
1,1-Dichloroethene	103	70-130
Acetone	108	70-130
2-Propanol	127	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	115	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	116	70-130
1,1-Dichloroethane	111	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	109	70-130
Tetrahydrofuran	118	70-130
1,1,1-Trichloroethane	105	70-130
Cyclohexane	110	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	114	70-130
Heptane	109	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	107	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	109	70-130
4-Methyl-2-pentanone	118	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	113	70-130
Tetrachloroethene	100	70-130
2-Hexanone	121	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	104	70-130
m,p-Xylene	110	70-130
o-Xylene	109	70-130
Styrene	111	70-130

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Client Sample ID: LCS

Lab ID#: 2510650A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:04 AM**	

Compound	%Recovery	Method Limits
Bromoform	101	70-130
Cumene	111	70-130
Propylbenzene	105	70-130
4-Ethyltoluene	108	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	116	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	123	70-130
Hexachlorobutadiene	108	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:30 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	99	70-130
Chloromethane	107	70-130
1,3-Butadiene	116	70-130
Bromomethane	114	70-130
Chloroethane	113	70-130
Freon 11	100	70-130
Ethanol	112	70-130
Freon 113	97	70-130
1,1-Dichloroethene	102	70-130
Acetone	106	70-130
2-Propanol	125	70-130
Carbon Disulfide	101	70-130
3-Chloropropene	114	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	105	70-130
Hexane	115	70-130
1,1-Dichloroethane	109	70-130
2-Butanone (Methyl Ethyl Ketone)	108	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	116	70-130
1,1,1-Trichloroethane	104	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	114	70-130
Heptane	110	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	107	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	118	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	99	70-130
2-Hexanone	121	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	103	70-130
m,p-Xylene	108	70-130
o-Xylene	108	70-130
Styrene	110	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:30 AM**	

Compound	%Recovery	Method Limits
Bromoform	99	70-130
Cumene	109	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	121	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCS

Lab ID#: 2510650A-15B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:04 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	114	70-130
Chloroform	102	70-130
Benzene	110	70-130
1,2-Dichloroethane	100	70-130
1,1,2-Trichloroethane	106	70-130
1,2-Dibromoethane (EDB)	100	70-130
Ethyl Benzene	109	70-130
1,1,2,2-Tetrachloroethane	103	70-130
Naphthalene	114	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650A-15BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:30 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	114	70-130
Chloroform	101	70-130
Benzene	108	70-130
1,2-Dichloroethane	99	70-130
1,1,2-Trichloroethane	105	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	106	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	114	60-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650A-15C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 11:58 AM**	

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	100	70-130
Chloromethane	97	70-130
1,3-Butadiene	96	70-130
Bromomethane	105	70-130
Chloroethane	98	70-130
Freon 11	101	70-130
Ethanol	88	70-130
Freon 113	101	70-130
1,1-Dichloroethene	100	70-130
Acetone	90	70-130
2-Propanol	99	70-130
Carbon Disulfide	96	70-130
3-Chloropropene	103	70-130
Methylene Chloride	94	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	101	70-130
Hexane	105	70-130
1,1-Dichloroethane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	97	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	110	70-130
Carbon Tetrachloride	104	70-130
2,2,4-Trimethylpentane	107	70-130
Heptane	104	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	97	70-130
Bromodichloromethane	95	70-130
cis-1,3-Dichloropropene	99	70-130
4-Methyl-2-pentanone	106	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	99	70-130
Tetrachloroethene	100	70-130
2-Hexanone	101	70-130
Dibromochloromethane	98	70-130
Chlorobenzene	98	70-130
m,p-Xylene	107	70-130
o-Xylene	107	70-130
Styrene	110	70-130

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Client Sample ID: LCS

Lab ID#: 2510650A-15C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 11:58 AM**	

Compound	%Recovery	Method Limits
Bromoform	100	70-130
Cumene	109	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	108	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	106	70-130
alpha-Chlorotoluene	107	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	133 Q	70-130
Hexachlorobutadiene	126	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650A-15CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 12:24 PM**	

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	97	70-130
Chloromethane	92	70-130
1,3-Butadiene	91	70-130
Bromomethane	106	70-130
Chloroethane	97	70-130
Freon 11	97	70-130
Ethanol	87	70-130
Freon 113	98	70-130
1,1-Dichloroethene	95	70-130
Acetone	87	70-130
2-Propanol	98	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	102	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	106	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	105	70-130
1,1-Dichloroethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	95	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	106	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	102	70-130
Heptane	109	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	97	70-130
Bromodichloromethane	94	70-130
cis-1,3-Dichloropropene	102	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	99	70-130
Tetrachloroethene	100	70-130
2-Hexanone	102	70-130
Dibromochloromethane	97	70-130
Chlorobenzene	96	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130
Styrene	110	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650A-15CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 12:24 PM**	

Compound	%Recovery	Method Limits
Bromoform	99	70-130
Cumene	109	70-130
Propylbenzene	107	70-130
4-Ethyltoluene	107	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	114	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	107	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	136 Q	70-130
Hexachlorobutadiene	124	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 2510650A-15D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110303sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 11:58 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	90	70-130
Chloroform	93	70-130
Benzene	98	70-130
1,2-Dichloroethane	92	70-130
1,1,2-Trichloroethane	93	70-130
1,2-Dibromoethane (EDB)	92	70-130
Ethyl Benzene	109	70-130
1,1,2,2-Tetrachloroethane	93	70-130
Naphthalene	129	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650A-15DD

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110304sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/25 12:24 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	89	70-130
Chloroform	93	70-130
Benzene	98	70-130
1,2-Dichloroethane	91	70-130
1,1,2-Trichloroethane	93	70-130
1,2-Dibromoethane (EDB)	92	70-130
Ethyl Benzene	109	70-130
1,1,2,2-Tetrachloroethane	92	70-130
Naphthalene	136	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	103	70-130

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.050
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	1.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	1.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.20
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	1.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.050
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.020

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.20
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.050
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0
91-20-3	Naphthalene	0.20

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analytical Report

11/4/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650B

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650B

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/04/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
13A	SGP-49-H	TO-15	8.6 "Hg	1.9 psi
13B	SGP-49-H	TO-15	8.6 "Hg	1.9 psi
14A	SGP-49	TO-15	7.3 "Hg	1.9 psi
14B	SGP-49	TO-15	7.3 "Hg	1.9 psi
15A	SGP-34-H	TO-15	9.8 "Hg	1.9 psi
15B	SGP-34-H	TO-15	9.8 "Hg	1.9 psi
16A	SGP-34	TO-15	10 "Hg	1.9 psi
17A	SGP-35-H	TO-15	9.2 "Hg	1.9 psi
17B	SGP-35-H	TO-15	9.2 "Hg	1.9 psi
18A	SGP-DUP-03	TO-15	9.4 "Hg	1.9 psi
18B	SGP-DUP-03	TO-15	9.4 "Hg	1.9 psi
19A	SGP-35	TO-15	8.2 "Hg	2.4 psi
20A	SGP-36-H	TO-15	6.9 "Hg	1.9 psi
21A	SGP-36	TO-15	6.1 "Hg	1.9 psi
22A	SGP-37-H	TO-15	9.8 "Hg	1.9 psi
22B	SGP-37-H	TO-15	9.8 "Hg	1.9 psi
23A	SGP-37	TO-15	7.3 "Hg	1.9 psi
23B	SGP-37	TO-15	7.3 "Hg	1.9 psi
24A	SGP-38-H	TO-15	9 "Hg	1.9 psi
24B	SGP-38-H	TO-15	9 "Hg	1.9 psi
25A	Lab Blank	TO-15	NA	NA
25B	Lab Blank	TO-15	NA	NA
25C	Lab Blank	TO-15	NA	NA

Continued on next page

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WORK ORDER #: 2510650B

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/04/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
26A	CCV	TO-15	NA	NA
26B	CCV	TO-15	NA	NA
26C	CCV	TO-15	NA	NA
27A	LCS	TO-15	NA	NA
27AA	LCSD	TO-15	NA	NA
27B	LCS	TO-15	NA	NA
27BB	LCSD	TO-15	NA	NA
27C	LCS	TO-15	NA	NA
27CC	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/04/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
EPA Method TO-15 (Hybrid)
S & ME, Inc.
Workorder# 2510650B

Twelve 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for samples SGP-49-H, SGP-49, SGP-34-H, SGP-35-H, SGP-DUP-03, SGP-37-H, SGP-37 and SGP-38-H in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Dilution was performed on samples SGP-34, SGP-35, SGP-36-H and SGP-36 due to matrix interference.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-49-H

Lab ID#: 2510650B-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	0.79	4.8	5.5	34
Ethanol	7.9	20	15	37
Acetone	7.9	8.1	19	19
2-Propanol	3.2	4.7	7.8	12

Client Sample ID: SGP-49-H

Lab ID#: 2510650B-13B

No Detections Were Found.

Client Sample ID: SGP-49

Lab ID#: 2510650B-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.74	1.3	3.7	6.5
Freon 114	0.74	5.4	5.2	38
Ethanol	7.4	19	14	36
Acetone	7.4	8.3	18	20
2-Propanol	3.0	3.8	7.3	9.3

Client Sample ID: SGP-49

Lab ID#: 2510650B-14B

No Detections Were Found.

Client Sample ID: SGP-34-H

Lab ID#: 2510650B-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.84	1.4	4.7	8.0
Ethanol	8.4	14	16	27
Acetone	8.4	8.7	20	21
2-Propanol	3.4	4.0	8.2	9.8

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-34-H

Lab ID#: 2510650B-15B

No Detections Were Found.

Client Sample ID: SGP-34

Lab ID#: 2510650B-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.4	270	42	1300
Freon 114	8.4	120	59	860
Vinyl Chloride	8.4	90	22	230
Chloroethane	34	63	89	170
Hexane	8.4	140	30	490
1,1-Dichloroethane	8.4	170	34	700
cis-1,2-Dichloroethene	8.4	22	34	88
Cyclohexane	8.4	160	29	570
2,2,4-Trimethylpentane	8.4	89	39	420
Benzene	8.4	54	27	170
Heptane	8.4	230	35	960
1,3,5-Trimethylbenzene	8.4	8.4 J	42	41 J

Client Sample ID: SGP-35-H

Lab ID#: 2510650B-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	2.9	4.0	14
Freon 114	0.82	24	5.7	170
Ethanol	8.2	24	15	45
Hexane	0.82	1.8	2.9	6.4
Cyclohexane	0.82	0.85	2.8	2.9
2,2,4-Trimethylpentane	0.82	31	3.8	150
Tetrachloroethene	0.82	1.3	5.5	8.8

Client Sample ID: SGP-35-H

Lab ID#: 2510650B-17B

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-35-H

Lab ID#: 2510650B-17B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	8.5	0.80	42
Benzene	0.33	4.8	1.0	15

Client Sample ID: SGP-DUP-03

Lab ID#: 2510650B-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	2.3	4.0	11
Freon 114	0.82	24	5.7	170
Hexane	0.82	1.6	2.9	5.5
2,2,4-Trimethylpentane	0.82	19	3.8	88

Client Sample ID: SGP-DUP-03

Lab ID#: 2510650B-18B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	8.3	0.80	40
Benzene	0.33	1.7	1.0	5.5

Client Sample ID: SGP-35

Lab ID#: 2510650B-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.0	180	40	910
Freon 114	8.0	220	56	1600
Vinyl Chloride	8.0	170	20	430
Chloroethane	32	350	84	930
Acetone	32	2700	76	6500
2-Propanol	40	550	98	1400
trans-1,2-Dichloroethene	8.0	60	32	240
Hexane	8.0	440	28	1500
1,1-Dichloroethane	8.0	160	32	630

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SGP-35

Lab ID#: 2510650B-19A

2-Butanone (Methyl Ethyl Ketone)	32	59	94	170
cis-1,2-Dichloroethene	8.0	65	32	260
~~Cyclohexane~~	8.0	570	28	2000
~~2,2,4-Trimethylpentane~~	8.0	310	37	1400
~~Benzene~~	8.0	98	26	310
Heptane	8.0	710	33	2900
Trichloroethene	8.0	16	43	83
Toluene	8.0	100	30	400
1,4-Dichlorobenzene	8.0	19	48	120

Client Sample ID: SGP-36-H

Lab ID#: 2510650B-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.4	540	36	2700
Freon 114	7.4	310	51	2200
Vinyl Chloride	7.4	11	19	29
Chloroethane	29	36	78	95
Acetone	29	45	70	110
Hexane	7.4	110	26	400
1,1-Dichloroethane	7.4	14	30	58
Cyclohexane	7.4	40	25	140
2,2,4-Trimethylpentane	7.4	270	34	1300
Benzene	7.4	110	23	360
Chlorobenzene	7.4	18	34	82
Cumene	7.4	16	36	79

Client Sample ID: SGP-36

Lab ID#: 2510650B-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.1	310	35	1500
Freon 114	7.1	240	50	1600
Vinyl Chloride	7.1	59	18	150

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SGP-36

Lab ID#: 2510650B-21A

Chloroethane	28	56	75	150
trans-1,2-Dichloroethene	7.1	17	28	67
Hexane	7.1	430	25	1500
cis-1,2-Dichloroethene	7.1	8.4	28	33
Tetrahydrofuran	7.1	33	21	97
Cyclohexane	7.1	550	24	1900
2,2,4-Trimethylpentane	7.1	280	33	1300
Benzene	7.1	240	23	760
Heptane	7.1	980	29	4000
Trichloroethene	7.1	11	38	58
Chlorobenzene	7.1	37	33	170
Ethyl Benzene	7.1	8.2	31	36
m,p-Xylene	7.1	8.3	31	36
Cumene	7.1	41	35	200
1,3,5-Trimethylbenzene	7.1	33	35	160
1,4-Dichlorobenzene	7.1	98	43	590

Client Sample ID: SGP-37-H

Lab ID#: 2510650B-22A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	27	4.2	130
Freon 114	0.84	29	5.9	200
Acetone	8.4	11	20	26
Tetrachloroethene	0.84	1.1	5.7	7.6

Client Sample ID: SGP-37-H

Lab ID#: 2510650B-22B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	3.6	0.82	18

Client Sample ID: SGP-37

Lab ID#: 2510650B-23A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-37

Lab ID#: 2510650B-23A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.74	250	3.7	1200
Freon 114	0.74	170	5.2	1200
1,1-Dichloroethene	0.74	1.2	3.0	4.7
trans-1,2-Dichloroethene	0.74	6.0	3.0	24
Hexane	0.74	210	2.6	730
1,1-Dichloroethane	0.74	3.2	3.0	13
cis-1,2-Dichloroethene	0.74	8.2	3.0	32
Cyclohexane	0.74	270	2.6	930
2,2,4-Trimethylpentane	0.74	260	3.5	1200
Heptane	0.74	64	3.0	260
Trichloroethene	0.74	2.2	4.0	12
1,2-Dichloropropane	0.74	1.8	3.4	8.4
Toluene	1.5	7.6	5.6	28
Chlorobenzene	0.74	19	3.4	89
m,p-Xylene	1.5	4.1	6.5	18
o-Xylene	0.74	1.0	3.2	4.3
Cumene	0.74	6.3	3.7	31
1,3,5-Trimethylbenzene	0.74	1.1	3.7	5.6
1,4-Dichlorobenzene	0.74	20	4.5	120

Client Sample ID: SGP-37

Lab ID#: 2510650B-23B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.30	160	0.95	500
1,2-Dichloroethane	0.15	1.0	0.60	4.2
Ethyl Benzene	0.30	2.3	1.3	10

Client Sample ID: SGP-38-H

Lab ID#: 2510650B-24A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	17	4.0	82

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-38-H

Lab ID#: 2510650B-24A

Freon 114	0.80	16	5.6	110
Ethanol	8.0	16	15	30
Acetone	8.0	13	19	30
2-Propanol	3.2	3.7	7.9	9.2

Client Sample ID: SGP-38-H

Lab ID#: 2510650B-24B

No Detections Were Found.

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Client Sample ID: SGP-49-H

Lab ID#: 2510650B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103115**	**Date of Collection:**	**10/14/25 11:48:00 A**
Dil. Factor:	**1.58**	**Date of Analysis:**	**11/1/25 09:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.79	Not Detected	3.9	Not Detected
Freon 114	0.79	4.8	5.5	34
Chloromethane	7.9	Not Detected	16	Not Detected
1,3-Butadiene	0.79	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.1	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
Freon 11	0.79	Not Detected	4.4	Not Detected
Ethanol	7.9	20	15	37
Freon 113	0.79	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Acetone	7.9	8.1	19	19
2-Propanol	3.2	4.7	7.8	12
Carbon Disulfide	3.2	Not Detected	9.8	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Hexane	0.79	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.3	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Cyclohexane	0.79	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Heptane	0.79	Not Detected	3.2	Not Detected
Trichloroethene	0.79	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.7	Not Detected
Bromodichloromethane	0.79	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	6.0	Not Detected
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.79	Not Detected	6.7	Not Detected
Chlorobenzene	0.79	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.9	Not Detected
o-Xylene	0.79	Not Detected	3.4	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-49-H

Lab ID#: 2510650B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103115**	**Date of Collection:**	**10/14/25 11:48:00 A**
Dil. Factor:	**1.58**	**Date of Analysis:**	**11/1/25 09:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.79	Not Detected	8.2	Not Detected
Cumene	0.79	Not Detected	3.9	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	23	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-49-H

Lab ID#: 2510650B-13B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103115sim**	**Date of Collection: 10/14/25 11:48:00 A**	
Dil. Factor:	**1.58**	**Date of Analysis: 11/1/25 09:10 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.079	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.079	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.079	Not Detected	0.54	Not Detected
Naphthalene	0.32	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-49

Lab ID#: 2510650B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103116**	**Date of Collection:**	**10/14/25 12:04:00 P**
Dil. Factor:	**1.49**	**Date of Analysis:**	**11/1/25 09:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.74	1.3	3.7	6.5
Freon 114	0.74	5.4	5.2	38
Chloromethane	7.4	Not Detected	15	Not Detected
1,3-Butadiene	0.74	Not Detected	1.6	Not Detected
Bromomethane	1.5	Not Detected	5.8	Not Detected
Chloroethane	3.0	Not Detected	7.9	Not Detected
Freon 11	0.74	Not Detected	4.2	Not Detected
Ethanol	7.4	19	14	36
Freon 113	0.74	Not Detected	5.7	Not Detected
1,1-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Acetone	7.4	8.3	18	20
2-Propanol	3.0	3.8	7.3	9.3
Carbon Disulfide	3.0	Not Detected	9.3	Not Detected
3-Chloropropene	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	1.5	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Hexane	0.74	Not Detected	2.6	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	8.8	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
1,1,1-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Cyclohexane	0.74	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.74	Not Detected	4.7	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.5	Not Detected
Heptane	0.74	Not Detected	3.0	Not Detected
Trichloroethene	0.74	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.74	Not Detected	3.4	Not Detected
1,4-Dioxane	1.5	Not Detected	5.4	Not Detected
Bromodichloromethane	0.74	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.74	Not Detected	3.0	Not Detected
Toluene	1.5	Not Detected	5.6	Not Detected
trans-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.74	Not Detected	6.3	Not Detected
Chlorobenzene	0.74	Not Detected	3.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.5	Not Detected
o-Xylene	0.74	Not Detected	3.2	Not Detected
Styrene	0.74	Not Detected	3.2	Not Detected

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Client Sample ID: SGP-49

Lab ID#: 2510650B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103116**	**Date of Collection:**	**10/14/25 12:04:00 P**
Dil. Factor:	**1.49**	**Date of Analysis:**	**11/1/25 09:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.74	Not Detected	7.7	Not Detected
Cumene	0.74	Not Detected	3.7	Not Detected
Propylbenzene	0.74	Not Detected	3.7	Not Detected
4-Ethyltoluene	0.74	Not Detected	3.7	Not Detected
1,3,5-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.74	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-49

Lab ID#: 2510650B-14B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103116sim**	**Date of Collection: 10/14/25 12:04:00 P**	
Dil. Factor:	**1.49**	**Date of Analysis: 11/1/25 09:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.074	Not Detected	0.19	Not Detected
Chloroform	0.15	Not Detected	0.73	Not Detected
Benzene	0.30	Not Detected	0.95	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.074	Not Detected	0.41	Not Detected
1,2-Dibromoethane (EDB)	0.030	Not Detected	0.23	Not Detected
Ethyl Benzene	0.30	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.074	Not Detected	0.51	Not Detected
Naphthalene	0.30	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-34-H

Lab ID#: 2510650B-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103117**	**Date of Collection:**	**10/14/25 12:30:00 P**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/1/25 10:06 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
Freon 11	0.84	1.4	4.7	8.0
Ethanol	8.4	14	16	27
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	8.7	20	21
2-Propanol	3.4	4.0	8.2	9.8
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	9.9	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

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Client Sample ID: SGP-34-H

Lab ID#: 2510650B-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103117**	**Date of Collection: 10/14/25 12:30:00 P**	
Dil. Factor:	**1.68**	**Date of Analysis: 11/1/25 10:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.7	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-34-H

Lab ID#: 2510650B-15B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103117sim**	**Date of Collection: 10/14/25 12:30:00 P**	
Dil. Factor:	**1.68**	**Date of Analysis: 11/1/25 10:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
Benzene	0.34	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.34	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.58	Not Detected
Naphthalene	0.34	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-34

Lab ID#: 2510650B-16A

EPA METHOD TO-15 GC/MS

File Name:	**14110406**	**Date of Collection:**	**10/14/25 12:41:00 P**
Dil. Factor:	**1.69**	**Date of Analysis:**	**11/4/25 10:06 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.4	270	42	1300
Freon 114	8.4	120	59	860
Chloromethane	34	Not Detected	70	Not Detected
Vinyl Chloride	8.4	90	22	230
1,3-Butadiene	8.4	Not Detected	19	Not Detected
Bromomethane	34	Not Detected	130	Not Detected
Chloroethane	34	63	89	170
Freon 11	8.4	Not Detected	47	Not Detected
Ethanol	42	Not Detected	80	Not Detected
Freon 113	8.4	Not Detected	65	Not Detected
1,1-Dichloroethene	8.4	Not Detected	34	Not Detected
Acetone	34	Not Detected	80	Not Detected
2-Propanol	42	Not Detected	100	Not Detected
Carbon Disulfide	34	Not Detected	100	Not Detected
3-Chloropropene	34	Not Detected	100	Not Detected
Methylene Chloride	34	Not Detected	120	Not Detected
Methyl tert-butyl ether	8.4	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.4	Not Detected	34	Not Detected
Hexane	8.4	140	30	490
1,1-Dichloroethane	8.4	170	34	700
2-Butanone (Methyl Ethyl Ketone)	34	Not Detected	100	Not Detected
cis-1,2-Dichloroethene	8.4	22	34	88
Tetrahydrofuran	8.4	Not Detected	25	Not Detected
Chloroform	8.4	Not Detected	41	Not Detected
1,1,1-Trichloroethane	8.4	Not Detected	46	Not Detected
Cyclohexane	8.4	160	29	570
Carbon Tetrachloride	8.4	Not Detected	53	Not Detected
2,2,4-Trimethylpentane	8.4	89	39	420
Benzene	8.4	54	27	170
1,2-Dichloroethane	8.4	Not Detected	34	Not Detected
Heptane	8.4	230	35	960
Trichloroethene	8.4	Not Detected	45	Not Detected
1,2-Dichloropropane	8.4	Not Detected	39	Not Detected
1,4-Dioxane	34	Not Detected	120	Not Detected
Bromodichloromethane	8.4	Not Detected	57	Not Detected
cis-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
4-Methyl-2-pentanone	34	Not Detected	140	Not Detected
Toluene	8.4	Not Detected	32	Not Detected
trans-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
1,1,2-Trichloroethane	8.4	Not Detected	46	Not Detected
Tetrachloroethene	8.4	Not Detected	57	Not Detected
2-Hexanone	34	Not Detected	140	Not Detected

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Client Sample ID: SGP-34

Lab ID#: 2510650B-16A

EPA METHOD TO-15 GC/MS

File Name:	**14110406**	**Date of Collection:**	**10/14/25 12:41:00 P**
Dil. Factor:	**1.69**	**Date of Analysis:**	**11/4/25 10:06 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.4	Not Detected	72	Not Detected
1,2-Dibromoethane (EDB)	8.4	Not Detected	65	Not Detected
Chlorobenzene	8.4	Not Detected	39	Not Detected
Ethyl Benzene	8.4	Not Detected	37	Not Detected
m,p-Xylene	8.4	Not Detected	37	Not Detected
o-Xylene	8.4	Not Detected	37	Not Detected
Styrene	8.4	Not Detected	36	Not Detected
Bromoform	8.4	Not Detected	87	Not Detected
Cumene	8.4	Not Detected	42	Not Detected
1,1,2,2-Tetrachloroethane	8.4	Not Detected	58	Not Detected
Propylbenzene	8.4	Not Detected	42	Not Detected
4-Ethyltoluene	8.4	Not Detected	42	Not Detected
1,3,5-Trimethylbenzene	8.4	8.4 J	42	41 J
1,2,4-Trimethylbenzene	8.4	Not Detected	42	Not Detected
1,3-Dichlorobenzene	8.4	Not Detected	51	Not Detected
1,4-Dichlorobenzene	8.4	Not Detected	51	Not Detected
alpha-Chlorotoluene	8.4	Not Detected	44	Not Detected
1,2-Dichlorobenzene	8.4	Not Detected	51	Not Detected
1,2,4-Trichlorobenzene	34	Not Detected	250	Not Detected
Hexachlorobutadiene	34	Not Detected	360	Not Detected
Naphthalene	34	Not Detected	180	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SGP-35-H

Lab ID#: 2510650B-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103118**	**Date of Collection:**	**10/15/25 10:05:00 A**
Dil. Factor:	**1.63**	**Date of Analysis:**	**11/1/25 10:34 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	2.9	4.0	14
Freon 114	0.82	24	5.7	170
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.3	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	24	15	45
Freon 113	0.82	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
2-Propanol	3.3	Not Detected	8.0	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	1.8	2.9	6.4
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.6	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.4	Not Detected
Cyclohexane	0.82	0.85	2.8	2.9
Carbon Tetrachloride	0.82	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.82	31	3.8	150
Heptane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	1.3	5.5	8.8
2-Hexanone	3.3	Not Detected	13	Not Detected
Dibromochloromethane	0.82	Not Detected	6.9	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	0.82	Not Detected	3.5	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-35-H

Lab ID#: 2510650B-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103118**	**Date of Collection: 10/15/25 10:05:00 A**	
Dil. Factor:	**1.63**	**Date of Analysis: 11/1/25 10:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.4	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-35-H

Lab ID#: 2510650B-17B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103118sim**	**Date of Collection: 10/15/25 10:05:00 A**	
Dil. Factor:	**1.63**	**Date of Analysis: 11/1/25 10:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	8.5	0.80	42
Benzene	0.33	4.8	1.0	15
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.56	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-DUP-03

Lab ID#: 2510650B-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103119**	**Date of Collection:**	**10/15/25 10:05:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/1/25 11:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	2.3	4.0	11
Freon 114	0.82	24	5.7	170
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	Not Detected	15	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	1.6	2.9	5.5
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	19	3.8	88
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	1.6	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-DUP-03

Lab ID#: 2510650B-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103119**	**Date of Collection:**	**10/15/25 10:05:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/1/25 11:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-DUP-03

Lab ID#: 2510650B-18B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103119sim**	**Date of Collection: 10/15/25 10:05:00 A**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/1/25 11:02 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	8.3	0.80	40
Benzene	0.33	1.7	1.0	5.5
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.56	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-35

Lab ID#: 2510650B-19A

EPA METHOD TO-15 GC/MS

File Name:	**14110407**	**Date of Collection:**	**10/15/25 10:19:00 A**
Dil. Factor:	**1.60**	**Date of Analysis:**	**11/4/25 10:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.0	180	40	910
Freon 114	8.0	220	56	1600
Chloromethane	32	Not Detected	66	Not Detected
Vinyl Chloride	8.0	170	20	430
1,3-Butadiene	8.0	Not Detected	18	Not Detected
Bromomethane	32	Not Detected	120	Not Detected
Chloroethane	32	350	84	930
Freon 11	8.0	Not Detected	45	Not Detected
Ethanol	40	Not Detected	75	Not Detected
Freon 113	8.0	Not Detected	61	Not Detected
1,1-Dichloroethene	8.0	Not Detected	32	Not Detected
Acetone	32	2700	76	6500
2-Propanol	40	550	98	1400
Carbon Disulfide	32	Not Detected	100	Not Detected
3-Chloropropene	32	Not Detected	100	Not Detected
Methylene Chloride	32	Not Detected	110	Not Detected
Methyl tert-butyl ether	8.0	Not Detected	29	Not Detected
trans-1,2-Dichloroethene	8.0	60	32	240
Hexane	8.0	440	28	1500
1,1-Dichloroethane	8.0	160	32	630
2-Butanone (Methyl Ethyl Ketone)	32	59	94	170
cis-1,2-Dichloroethene	8.0	65	32	260
Tetrahydrofuran	8.0	Not Detected	24	Not Detected
Chloroform	8.0	Not Detected	39	Not Detected
1,1,1-Trichloroethane	8.0	Not Detected	44	Not Detected
Cyclohexane	8.0	570	28	2000
Carbon Tetrachloride	8.0	Not Detected	50	Not Detected
2,2,4-Trimethylpentane	8.0	310	37	1400
Benzene	8.0	98	26	310
1,2-Dichloroethane	8.0	Not Detected	32	Not Detected
Heptane	8.0	710	33	2900
Trichloroethene	8.0	16	43	83
1,2-Dichloropropane	8.0	Not Detected	37	Not Detected
1,4-Dioxane	32	Not Detected	120	Not Detected
Bromodichloromethane	8.0	Not Detected	54	Not Detected
cis-1,3-Dichloropropene	8.0	Not Detected	36	Not Detected
4-Methyl-2-pentanone	32	Not Detected	130	Not Detected
Toluene	8.0	100	30	400
trans-1,3-Dichloropropene	8.0	Not Detected	36	Not Detected
1,1,2-Trichloroethane	8.0	Not Detected	44	Not Detected
Tetrachloroethene	8.0	Not Detected	54	Not Detected
2-Hexanone	32	Not Detected	130	Not Detected

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Client Sample ID: SGP-35

Lab ID#: 2510650B-19A

EPA METHOD TO-15 GC/MS

File Name:	**14110407**	**Date of Collection:**	**10/15/25 10:19:00 A**
Dil. Factor:	**1.60**	**Date of Analysis:**	**11/4/25 10:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.0	Not Detected	68	Not Detected
1,2-Dibromoethane (EDB)	8.0	Not Detected	61	Not Detected
Chlorobenzene	8.0	Not Detected	37	Not Detected
Ethyl Benzene	8.0	Not Detected	35	Not Detected
m,p-Xylene	8.0	Not Detected	35	Not Detected
o-Xylene	8.0	Not Detected	35	Not Detected
Styrene	8.0	Not Detected	34	Not Detected
Bromoform	8.0	Not Detected	83	Not Detected
Cumene	8.0	Not Detected	39	Not Detected
1,1,2,2-Tetrachloroethane	8.0	Not Detected	55	Not Detected
Propylbenzene	8.0	Not Detected	39	Not Detected
4-Ethyltoluene	8.0	Not Detected	39	Not Detected
1,3,5-Trimethylbenzene	8.0	Not Detected	39	Not Detected
1,2,4-Trimethylbenzene	8.0	Not Detected	39	Not Detected
1,3-Dichlorobenzene	8.0	Not Detected	48	Not Detected
1,4-Dichlorobenzene	8.0	19	48	120
alpha-Chlorotoluene	8.0	Not Detected	41	Not Detected
1,2-Dichlorobenzene	8.0	Not Detected	48	Not Detected
1,2,4-Trichlorobenzene	32	Not Detected	240	Not Detected
Hexachlorobutadiene	32	Not Detected	340	Not Detected
Naphthalene	32	Not Detected	170	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-36-H

Lab ID#: 2510650B-20A

EPA METHOD TO-15 GC/MS

File Name:	**14110408**	**Date of Collection:**	**10/15/25 10:44:00 A**
Dil. Factor:	**1.47**	**Date of Analysis:**	**11/4/25 10:53 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.4	540	36	2700
Freon 114	7.4	310	51	2200
Chloromethane	29	Not Detected	61	Not Detected
Vinyl Chloride	7.4	11	19	29
1,3-Butadiene	7.4	Not Detected	16	Not Detected
Bromomethane	29	Not Detected	110	Not Detected
Chloroethane	29	36	78	95
Freon 11	7.4	Not Detected	41	Not Detected
Ethanol	37	Not Detected	69	Not Detected
Freon 113	7.4	Not Detected	56	Not Detected
1,1-Dichloroethene	7.4	Not Detected	29	Not Detected
Acetone	29	45	70	110
2-Propanol	37	Not Detected	90	Not Detected
Carbon Disulfide	29	Not Detected	92	Not Detected
3-Chloropropene	29	Not Detected	92	Not Detected
Methylene Chloride	29	Not Detected	100	Not Detected
Methyl tert-butyl ether	7.4	Not Detected	26	Not Detected
trans-1,2-Dichloroethene	7.4	Not Detected	29	Not Detected
Hexane	7.4	110	26	400
1,1-Dichloroethane	7.4	14	30	58
2-Butanone (Methyl Ethyl Ketone)	29	Not Detected	87	Not Detected
cis-1,2-Dichloroethene	7.4	Not Detected	29	Not Detected
Tetrahydrofuran	7.4	Not Detected	22	Not Detected
Chloroform	7.4	Not Detected	36	Not Detected
1,1,1-Trichloroethane	7.4	Not Detected	40	Not Detected
Cyclohexane	7.4	40	25	140
Carbon Tetrachloride	7.4	Not Detected	46	Not Detected
2,2,4-Trimethylpentane	7.4	270	34	1300
Benzene	7.4	110	23	360
1,2-Dichloroethane	7.4	Not Detected	30	Not Detected
Heptane	7.4	Not Detected	30	Not Detected
Trichloroethene	7.4	Not Detected	40	Not Detected
1,2-Dichloropropane	7.4	Not Detected	34	Not Detected
1,4-Dioxane	29	Not Detected	100	Not Detected
Bromodichloromethane	7.4	Not Detected	49	Not Detected
cis-1,3-Dichloropropene	7.4	Not Detected	33	Not Detected
4-Methyl-2-pentanone	29	Not Detected	120	Not Detected
Toluene	7.4	Not Detected	28	Not Detected
trans-1,3-Dichloropropene	7.4	Not Detected	33	Not Detected
1,1,2-Trichloroethane	7.4	Not Detected	40	Not Detected
Tetrachloroethene	7.4	Not Detected	50	Not Detected
2-Hexanone	29	Not Detected	120	Not Detected

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Client Sample ID: SGP-36-H

Lab ID#: 2510650B-20A

EPA METHOD TO-15 GC/MS

File Name:	**14110408**	**Date of Collection: 10/15/25 10:44:00 A**	
Dil. Factor:	**1.47**	**Date of Analysis: 11/4/25 10:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.4	Not Detected	63	Not Detected
1,2-Dibromoethane (EDB)	7.4	Not Detected	56	Not Detected
Chlorobenzene	7.4	18	34	82
Ethyl Benzene	7.4	Not Detected	32	Not Detected
m,p-Xylene	7.4	Not Detected	32	Not Detected
o-Xylene	7.4	Not Detected	32	Not Detected
Styrene	7.4	Not Detected	31	Not Detected
Bromoform	7.4	Not Detected	76	Not Detected
Cumene	7.4	16	36	79
1,1,2,2-Tetrachloroethane	7.4	Not Detected	50	Not Detected
Propylbenzene	7.4	Not Detected	36	Not Detected
4-Ethyltoluene	7.4	Not Detected	36	Not Detected
1,3,5-Trimethylbenzene	7.4	Not Detected	36	Not Detected
1,2,4-Trimethylbenzene	7.4	Not Detected	36	Not Detected
1,3-Dichlorobenzene	7.4	Not Detected	44	Not Detected
1,4-Dichlorobenzene	7.4	Not Detected	44	Not Detected
alpha-Chlorotoluene	7.4	Not Detected	38	Not Detected
1,2-Dichlorobenzene	7.4	Not Detected	44	Not Detected
1,2,4-Trichlorobenzene	29	Not Detected	220	Not Detected
Hexachlorobutadiene	29	Not Detected	310	Not Detected
Naphthalene	29	Not Detected	150	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	112	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-36

Lab ID#: 2510650B-21A

EPA METHOD TO-15 GC/MS

File Name:	**14110409**	**Date of Collection:**	**10/15/25 10:57:00 A**
Dil. Factor:	**1.42**	**Date of Analysis:**	**11/4/25 11:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.1	310	35	1500
Freon 114	7.1	240	50	1600
Chloromethane	28	Not Detected	59	Not Detected
Vinyl Chloride	7.1	59	18	150
1,3-Butadiene	7.1	Not Detected	16	Not Detected
Bromomethane	28	Not Detected	110	Not Detected
Chloroethane	28	56	75	150
Freon 11	7.1	Not Detected	40	Not Detected
Ethanol	36	Not Detected	67	Not Detected
Freon 113	7.1	Not Detected	54	Not Detected
1,1-Dichloroethene	7.1	Not Detected	28	Not Detected
Acetone	28	Not Detected	67	Not Detected
2-Propanol	36	Not Detected	87	Not Detected
Carbon Disulfide	28	Not Detected	88	Not Detected
3-Chloropropene	28	Not Detected	89	Not Detected
Methylene Chloride	28	Not Detected	99	Not Detected
Methyl tert-butyl ether	7.1	Not Detected	26	Not Detected
trans-1,2-Dichloroethene	7.1	17	28	67
Hexane	7.1	430	25	1500
1,1-Dichloroethane	7.1	Not Detected	29	Not Detected
2-Butanone (Methyl Ethyl Ketone)	28	Not Detected	84	Not Detected
cis-1,2-Dichloroethene	7.1	8.4	28	33
Tetrahydrofuran	7.1	33	21	97
Chloroform	7.1	Not Detected	35	Not Detected
1,1,1-Trichloroethane	7.1	Not Detected	39	Not Detected
Cyclohexane	7.1	550	24	1900
Carbon Tetrachloride	7.1	Not Detected	45	Not Detected
2,2,4-Trimethylpentane	7.1	280	33	1300
Benzene	7.1	240	23	760
1,2-Dichloroethane	7.1	Not Detected	29	Not Detected
Heptane	7.1	980	29	4000
Trichloroethene	7.1	11	38	58
1,2-Dichloropropane	7.1	Not Detected	33	Not Detected
1,4-Dioxane	28	Not Detected	100	Not Detected
Bromodichloromethane	7.1	Not Detected	48	Not Detected
cis-1,3-Dichloropropene	7.1	Not Detected	32	Not Detected
4-Methyl-2-pentanone	28	Not Detected	120	Not Detected
Toluene	7.1	Not Detected	27	Not Detected
trans-1,3-Dichloropropene	7.1	Not Detected	32	Not Detected
1,1,2-Trichloroethane	7.1	Not Detected	39	Not Detected
Tetrachloroethene	7.1	Not Detected	48	Not Detected
2-Hexanone	28	Not Detected	120	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-36

Lab ID#: 2510650B-21A

EPA METHOD TO-15 GC/MS

File Name:	**14110409**	**Date of Collection:**	**10/15/25 10:57:00 A**
Dil. Factor:	**1.42**	**Date of Analysis:**	**11/4/25 11:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.1	Not Detected	60	Not Detected
1,2-Dibromoethane (EDB)	7.1	Not Detected	54	Not Detected
Chlorobenzene	7.1	37	33	170
Ethyl Benzene	7.1	8.2	31	36
m,p-Xylene	7.1	8.3	31	36
o-Xylene	7.1	Not Detected	31	Not Detected
Styrene	7.1	Not Detected	30	Not Detected
Bromoform	7.1	Not Detected	73	Not Detected
Cumene	7.1	41	35	200
1,1,2,2-Tetrachloroethane	7.1	Not Detected	49	Not Detected
Propylbenzene	7.1	Not Detected	35	Not Detected
4-Ethyltoluene	7.1	Not Detected	35	Not Detected
1,3,5-Trimethylbenzene	7.1	33	35	160
1,2,4-Trimethylbenzene	7.1	Not Detected	35	Not Detected
1,3-Dichlorobenzene	7.1	Not Detected	43	Not Detected
1,4-Dichlorobenzene	7.1	98	43	590
alpha-Chlorotoluene	7.1	Not Detected	37	Not Detected
1,2-Dichlorobenzene	7.1	Not Detected	43	Not Detected
1,2,4-Trichlorobenzene	28	Not Detected	210	Not Detected
Hexachlorobutadiene	28	Not Detected	300	Not Detected
Naphthalene	28	Not Detected	150	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	120	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-37-H

Lab ID#: 2510650B-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103122**	**Date of Collection:**	**10/15/25 11:07:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/1/25 02:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	27	4.2	130
Freon 114	0.84	29	5.9	200
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
Ethanol	8.4	Not Detected	16	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	11	20	26
2-Propanol	3.4	Not Detected	8.2	Not Detected
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	9.9	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	1.1	5.7	7.6
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

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Client Sample ID: SGP-37-H

Lab ID#: 2510650B-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103122**	**Date of Collection:**	**10/15/25 11:07:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/1/25 02:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.7	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-37-H

Lab ID#: 2510650B-22B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103122sim**	**Date of Collection: 10/15/25 11:07:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 11/1/25 02:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	3.6	0.82	18
Benzene	0.34	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.34	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.58	Not Detected
Naphthalene	0.34	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-37

Lab ID#: 2510650B-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103123**	**Date of Collection:**	**10/15/25 11:24:00 A**
Dil. Factor:	**1.49**	**Date of Analysis:**	**11/1/25 02:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.74	250	3.7	1200
Freon 114	0.74	170	5.2	1200
Chloromethane	7.4	Not Detected	15	Not Detected
1,3-Butadiene	0.74	Not Detected	1.6	Not Detected
Bromomethane	1.5	Not Detected	5.8	Not Detected
Chloroethane	3.0	Not Detected	7.9	Not Detected
Freon 11	0.74	Not Detected	4.2	Not Detected
Ethanol	7.4	Not Detected	14	Not Detected
Freon 113	0.74	Not Detected	5.7	Not Detected
1,1-Dichloroethene	0.74	1.2	3.0	4.7
Acetone	7.4	Not Detected	18	Not Detected
2-Propanol	3.0	Not Detected	7.3	Not Detected
Carbon Disulfide	3.0	Not Detected	9.3	Not Detected
3-Chloropropene	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	1.5	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.74	6.0	3.0	24
Hexane	0.74	210	2.6	730
1,1-Dichloroethane	0.74	3.2	3.0	13
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	8.8	Not Detected
cis-1,2-Dichloroethene	0.74	8.2	3.0	32
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
1,1,1-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Cyclohexane	0.74	270	2.6	930
Carbon Tetrachloride	0.74	Not Detected	4.7	Not Detected
2,2,4-Trimethylpentane	0.74	260	3.5	1200
Heptane	0.74	64	3.0	260
Trichloroethene	0.74	2.2	4.0	12
1,2-Dichloropropane	0.74	1.8	3.4	8.4
1,4-Dioxane	1.5	Not Detected	5.4	Not Detected
Bromodichloromethane	0.74	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.74	Not Detected	3.0	Not Detected
Toluene	1.5	7.6	5.6	28
trans-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.74	Not Detected	6.3	Not Detected
Chlorobenzene	0.74	19	3.4	89
m,p-Xylene	1.5	4.1	6.5	18
o-Xylene	0.74	1.0	3.2	4.3
Styrene	0.74	Not Detected	3.2	Not Detected

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Client Sample ID: SGP-37

Lab ID#: 2510650B-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103123**	**Date of Collection:**	**10/15/25 11:24:00 A**
Dil. Factor:	**1.49**	**Date of Analysis:**	**11/1/25 02:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.74	Not Detected	7.7	Not Detected
Cumene	0.74	6.3	3.7	31
Propylbenzene	0.74	Not Detected	3.7	Not Detected
4-Ethyltoluene	0.74	Not Detected	3.7	Not Detected
1,3,5-Trimethylbenzene	0.74	1.1	3.7	5.6
1,2,4-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.74	20	4.5	120
alpha-Chlorotoluene	0.74	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	116	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SGP-37

Lab ID#: 2510650B-23B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103123sim**	**Date of Collection: 10/15/25 11:24:00 A**	
Dil. Factor:	**1.49**	**Date of Analysis: 11/1/25 02:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.074	Not Detected	0.19	Not Detected
Chloroform	0.15	Not Detected	0.73	Not Detected
Benzene	0.30	160	0.95	500
1,2-Dichloroethane	0.15	1.0	0.60	4.2
1,1,2-Trichloroethane	0.074	Not Detected	0.41	Not Detected
1,2-Dibromoethane (EDB)	0.030	Not Detected	0.23	Not Detected
Ethyl Benzene	0.30	2.3	1.3	10
1,1,2,2-Tetrachloroethane	0.074	Not Detected	0.51	Not Detected
Naphthalene	0.30	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	114	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-38-H

Lab ID#: 2510650B-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103124**	**Date of Collection:**	**10/15/25 11:40:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**11/1/25 03:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	17	4.0	82
Freon 114	0.80	16	5.6	110
Chloromethane	8.0	Not Detected	17	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	16	15	30
Freon 113	0.80	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	13	19	30
2-Propanol	3.2	3.7	7.9	9.2
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.5	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.80	Not Detected	3.3	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-38-H

Lab ID#: 2510650B-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103124**	**Date of Collection:**	**10/15/25 11:40:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**11/1/25 03:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.3	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-38-H

Lab ID#: 2510650B-24B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103124sim**	**Date of Collection: 10/15/25 11:40:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/1/25 03:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650B-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650B-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650B-25B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650B-25C

EPA METHOD TO-15 GC/MS

File Name:	**14110405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 09:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	25	Not Detected	47	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	25	Not Detected	61	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	20	Not Detected	82	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650B-25C

EPA METHOD TO-15 GC/MS

File Name:	**14110405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 09:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Naphthalene	20	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 2510650B-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**

Compound	%Recovery
Freon 12	111
Freon 114	101
Chloromethane	106
1,3-Butadiene	116
Bromomethane	110
Chloroethane	115
Freon 11	102
Ethanol	107
Freon 113	98
1,1-Dichloroethene	105
Acetone	109
2-Propanol	111
Carbon Disulfide	104
3-Chloropropene	112
Methylene Chloride	112
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	107
Hexane	120
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	109
Tetrahydrofuran	116
1,1,1-Trichloroethane	104
Cyclohexane	111
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	116
Heptane	112
Trichloroethene	102
1,2-Dichloropropane	110
1,4-Dioxane	102
Bromodichloromethane	106
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	116
Toluene	105
trans-1,3-Dichloropropene	110
Tetrachloroethene	99
2-Hexanone	118
Dibromochloromethane	102
Chlorobenzene	103
m,p-Xylene	108
o-Xylene	109
Styrene	109

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Client Sample ID: CCV

Lab ID#: 2510650B-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**	

Compound	%Recovery
Bromoform	102
Cumene	111
Propylbenzene	106
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: CCV

Lab ID#: 2510650B-26B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**	

Compound	%Recovery
Vinyl Chloride	113
Chloroform	105
Benzene	108
1,2-Dichloroethane	101
1,1,2-Trichloroethane	106
1,2-Dibromoethane (EDB)	100
Ethyl Benzene	106
1,1,2,2-Tetrachloroethane	103
Naphthalene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV
Lab ID#: 2510650B-26C
EPA METHOD TO-15 GC/MS

File Name:	**14110402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 08:10 AM**

Compound	%Recovery
Freon 12	102
Freon 114	109
Chloromethane	96
Vinyl Chloride	89
1,3-Butadiene	89
Bromomethane	105
Chloroethane	90
Freon 11	109
Ethanol	100
Freon 113	110
1,1-Dichloroethene	96
Acetone	98
2-Propanol	92
Carbon Disulfide	102
3-Chloropropene	105
Methylene Chloride	100
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	102
Hexane	92
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	102
Tetrahydrofuran	89
Chloroform	104
1,1,1-Trichloroethane	104
Cyclohexane	90
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	92
Benzene	93
1,2-Dichloroethane	91
Heptane	92
Trichloroethene	95
1,2-Dichloropropane	90
1,4-Dioxane	91
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	98
Toluene	92
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	95
Tetrachloroethene	101
2-Hexanone	94

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Client Sample ID: CCV
Lab ID#: 2510650B-26C
EPA METHOD TO-15 GC/MS

File Name:	**14110402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 08:10 AM**

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	95
Chlorobenzene	98
Ethyl Benzene	94
m,p-Xylene	95
o-Xylene	91
Styrene	94
Bromoform	109
Cumene	94
1,1,2,2-Tetrachloroethane	90
Propylbenzene	91
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	80
Hexachlorobutadiene	79
Naphthalene	75

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2510650B-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	99	70-130
Chloromethane	106	70-130
1,3-Butadiene	116	70-130
Bromomethane	109	70-130
Chloroethane	112	70-130
Freon 11	100	70-130
Ethanol	109	70-130
Freon 113	95	70-130
1,1-Dichloroethene	101	70-130
Acetone	104	70-130
2-Propanol	124	70-130
Carbon Disulfide	99	70-130
3-Chloropropene	112	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	114	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	114	70-130
1,1,1-Trichloroethane	102	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	112	70-130
Heptane	109	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	108	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	115	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	97	70-130
2-Hexanone	118	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	103	70-130
m,p-Xylene	107	70-130
o-Xylene	108	70-130
Styrene	110	70-130

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Client Sample ID: LCS

Lab ID#: 2510650B-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Bromoform	100	70-130
Cumene	108	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	122	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650B-27AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	101	70-130
Chloromethane	108	70-130
1,3-Butadiene	118	70-130
Bromomethane	114	70-130
Chloroethane	113	70-130
Freon 11	102	70-130
Ethanol	129	70-130
Freon 113	97	70-130
1,1-Dichloroethene	103	70-130
Acetone	107	70-130
2-Propanol	126	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	114	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	110	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	115	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	118	70-130
1,1,1-Trichloroethane	106	70-130
Cyclohexane	112	70-130
Carbon Tetrachloride	101	70-130
2,2,4-Trimethylpentane	115	70-130
Heptane	112	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	109	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	111	70-130
4-Methyl-2-pentanone	119	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	98	70-130
2-Hexanone	119	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	103	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130
Styrene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650B-27AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Bromoform	99	70-130
Cumene	108	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	111	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	122	70-130
Hexachlorobutadiene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCS

Lab ID#: 2510650B-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	115	70-130
Chloroform	101	70-130
Benzene	109	70-130
1,2-Dichloroethane	100	70-130
1,1,2-Trichloroethane	105	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	106	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	113	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650B-27BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	116	70-130
Chloroform	103	70-130
Benzene	109	70-130
1,2-Dichloroethane	101	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	107	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	115	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650B-27C

EPA METHOD TO-15 GC/MS

File Name:	**14110403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 08:33 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	117	70-130
Chloromethane	106	70-130
Vinyl Chloride	94	70-130
1,3-Butadiene	95	70-130
Bromomethane	112	70-130
Chloroethane	103	70-130
Freon 11	116	70-130
Ethanol	106	70-130
Freon 113	110	70-130
1,1-Dichloroethene	94	70-130
Acetone	99	70-130
2-Propanol	109	70-130
Carbon Disulfide	107	70-130
3-Chloropropene	114	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	111	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	95	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	100	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	113	70-130
Cyclohexane	92	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	98	70-130
Benzene	101	70-130
1,2-Dichloroethane	98	70-130
Heptane	95	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	92	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	99	70-130
4-Methyl-2-pentanone	98	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	108	70-130
2-Hexanone	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650B-27C

EPA METHOD TO-15 GC/MS

File Name:	**14110403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 08:33 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	104	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	98	70-130
o-Xylene	97	70-130
Styrene	100	70-130
Bromoform	114	70-130
Cumene	95	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	94	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	104	70-130
1,2-Dichlorobenzene	95	70-130
1,2,4-Trichlorobenzene	94	70-130
Hexachlorobutadiene	91	70-130
Naphthalene	83	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650B-27CC

EPA METHOD TO-15 GC/MS

File Name:	**14110404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 09:07 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	114	70-130
Chloromethane	106	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	95	70-130
Bromomethane	113	70-130
Chloroethane	104	70-130
Freon 11	116	70-130
Ethanol	103	70-130
Freon 113	110	70-130
1,1-Dichloroethene	96	70-130
Acetone	99	70-130
2-Propanol	111	70-130
Carbon Disulfide	107	70-130
3-Chloropropene	112	70-130
Methylene Chloride	103	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	96	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	97	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	113	70-130
Cyclohexane	94	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	100	70-130
1,2-Dichloroethane	96	70-130
Heptane	94	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	93	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	102	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	106	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	102	70-130
2-Hexanone	93	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650B-27CC

EPA METHOD TO-15 GC/MS

File Name:	**14110404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 09:07 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	104	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	97	70-130
o-Xylene	95	70-130
Styrene	99	70-130
Bromoform	110	70-130
Cumene	94	70-130
1,1,2,2-Tetrachloroethane	91	70-130
Propylbenzene	93	70-130
4-Ethyltoluene	92	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	91	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	95	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	92	70-130
1,2,4-Trichlorobenzene	91	70-130
Hexachlorobutadiene	87	70-130
Naphthalene	82	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	103	70-130

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.050
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	1.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	1.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.20
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	1.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.050
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.020

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.20
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.050
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0
91-20-3	Naphthalene	0.20

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analytical Report

11/3/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650C

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650C

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/03/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
25A	SGP-38	TO-15	10.4 "Hg	1.9 psi
25B	SGP-38	TO-15	10.4 "Hg	1.9 psi
26A	SGP-39-H	TO-15	8 "Hg	1.9 psi
26B	SGP-39-H	TO-15	8 "Hg	1.9 psi
27A	SGP-39	TO-15	9.8 "Hg	1.8 psi
27B	SGP-39	TO-15	9.8 "Hg	1.8 psi
28A	SGP-51-H	TO-15	9 "Hg	1.9 psi
28B	SGP-51-H	TO-15	9 "Hg	1.9 psi
29A	SGP-DUP-04	TO-15	8.4 "Hg	1.9 psi
29B	SGP-DUP-04	TO-15	8.4 "Hg	1.9 psi
30A	SGP-51	TO-15	8 "Hg	1.9 psi
30B	SGP-51	TO-15	8 "Hg	1.9 psi
31A	SGP-40-H	TO-15	7.8 "Hg	1.9 psi
31B	SGP-40-H	TO-15	7.8 "Hg	1.9 psi
32A	SGP-40	TO-15	10 "Hg	1.8 psi
32B	SGP-40	TO-15	10 "Hg	1.8 psi
33A	SGP-41-H	TO-15	9 "Hg	1.9 psi
33B	SGP-41-H	TO-15	9 "Hg	1.9 psi
34A	SGP-41	TO-15	7.6 "Hg	1.9 psi
34B	SGP-41	TO-15	7.6 "Hg	1.9 psi
35A	SGP-42-H	TO-15	7.6 "Hg	1.9 psi
35B	SGP-42-H	TO-15	7.6 "Hg	1.9 psi
36A	SGP-42	TO-15	9.8 "Hg	1.9 psi

Continued on next page

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WORK ORDER #: 2510650C

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/03/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
36B	SGP-42	TO-15	9.8 "Hg	1.9 psi
37A	Lab Blank	TO-15	NA	NA
37B	Lab Blank	TO-15	NA	NA
37C	Lab Blank	TO-15	NA	NA
37D	Lab Blank	TO-15	NA	NA
38A	CCV	TO-15	NA	NA
38B	CCV	TO-15	NA	NA
38C	CCV	TO-15	NA	NA
38D	CCV	TO-15	NA	NA
39A	LCS	TO-15	NA	NA
39AA	LCSD	TO-15	NA	NA
39B	LCS	TO-15	NA	NA
39BB	LCSD	TO-15	NA	NA
39C	LCS	TO-15	NA	NA
39CC	LCSD	TO-15	NA	NA
39D	LCS	TO-15	NA	NA
39DD	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/03/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
EPA Method TO-15 (Hybrid)
S & ME, Inc.
Workorder# 2510650C

Twelve 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in CCV analyses have not been flagged.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-38

Lab ID#: 2510650C-25A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	1.6	4.3	8.1
Freon 114	0.86	1.3	6.0	8.9
Ethanol	8.6	14	16	27

Client Sample ID: SGP-38

Lab ID#: 2510650C-25B

No Detections Were Found.

Client Sample ID: SGP-39-H

Lab ID#: 2510650C-26A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.77	5.0	3.8	25
Freon 114	0.77	19	5.4	130
Freon 11	0.77	1.3	4.3	7.4
Ethanol	7.7	17	14	32
Acetone	7.7	12	18	28
2-Propanol	3.1	3.7	7.6	9.1
Tetrachloroethene	0.77	0.79	5.2	5.3

Client Sample ID: SGP-39-H

Lab ID#: 2510650C-26B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.15	0.30	0.75	1.5

Client Sample ID: SGP-39

Lab ID#: 2510650C-27A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	150	4.1	760
Freon 114	0.84	75	5.8	520

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-39

Lab ID#: 2510650C-27A

Ethanol	8.4	10	16	20
Hexane	0.84	3.9	2.9	14
Cyclohexane	0.84	2.3	2.9	7.9
2,2,4-Trimethylpentane	0.84	7.8	3.9	37

Client Sample ID: SGP-39

Lab ID#: 2510650C-27B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	1.1	0.82	5.5

Client Sample ID: SGP-51-H

Lab ID#: 2510650C-28A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.80	7.0	4.5	39
Ethanol	8.0	17	15	33

Client Sample ID: SGP-51-H

Lab ID#: 2510650C-28B

No Detections Were Found.

Client Sample ID: SGP-DUP-04

Lab ID#: 2510650C-29A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.78	6.7	4.4	38
Ethanol	7.8	8.0	15	15

Client Sample ID: SGP-DUP-04

Lab ID#: 2510650C-29B

No Detections Were Found.

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-51

Lab ID#: 2510650C-30A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.7	17	14	31

Client Sample ID: SGP-51

Lab ID#: 2510650C-30B

No Detections Were Found.

Client Sample ID: SGP-40-H

Lab ID#: 2510650C-31A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	7.7	3.8	38
Freon 114	0.76	7.4	5.3	52
Ethanol	7.6	22	14	41
Acetone	7.6	8.2	18	19

Client Sample ID: SGP-40-H

Lab ID#: 2510650C-31B

No Detections Were Found.

Client Sample ID: SGP-40

Lab ID#: 2510650C-32A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.4	9.9	16	19
2-Propanol	3.4	3.9	8.2	9.6

Client Sample ID: SGP-40

Lab ID#: 2510650C-32B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	1.1	0.82	5.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-41-H

Lab ID#: 2510650C-33A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.0	19 J0	15	36 J0
Acetone	8.0	8.0	19	19

Client Sample ID: SGP-41-H

Lab ID#: 2510650C-33B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	0.22	0.79	1.1

Client Sample ID: SGP-41

Lab ID#: 2510650C-34A

No Detections Were Found.

Client Sample ID: SGP-41

Lab ID#: 2510650C-34B

No Detections Were Found.

Client Sample ID: SGP-42-H

Lab ID#: 2510650C-35A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.6	16 J0	14	30 J0
Acetone	7.6	11	18	25

Client Sample ID: SGP-42-H

Lab ID#: 2510650C-35B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.15	0.25	0.74	1.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-42

Lab ID#: 2510650C-36A

No Detections Were Found.

Client Sample ID: SGP-42

Lab ID#: 2510650C-36B

No Detections Were Found.

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Client Sample ID: SGP-38

Lab ID#: 2510650C-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103125**	**Date of Collection:**	**10/15/25 11:43:00 A**
Dil. Factor:	**1.73**	**Date of Analysis:**	**11/1/25 03:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	1.6	4.3	8.1
Freon 114	0.86	1.3	6.0	8.9
Chloromethane	8.6	Not Detected	18	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	1.7	Not Detected	6.7	Not Detected
Chloroethane	3.5	Not Detected	9.1	Not Detected
Freon 11	0.86	Not Detected	4.9	Not Detected
Ethanol	8.6	14	16	27
Freon 113	0.86	Not Detected	6.6	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	8.6	Not Detected	20	Not Detected
2-Propanol	3.5	Not Detected	8.5	Not Detected
Carbon Disulfide	3.5	Not Detected	11	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	1.7	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.6	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	1.7	Not Detected	6.2	Not Detected
Bromodichloromethane	0.86	Not Detected	5.8	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	1.7	Not Detected	6.5	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Tetrachloroethene	0.86	Not Detected	5.9	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Dibromochloromethane	0.86	Not Detected	7.4	Not Detected
Chlorobenzene	0.86	Not Detected	4.0	Not Detected
m,p-Xylene	1.7	Not Detected	7.5	Not Detected
o-Xylene	0.86	Not Detected	3.8	Not Detected
Styrene	0.86	Not Detected	3.7	Not Detected

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Client Sample ID: SGP-38

Lab ID#: 2510650C-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103125**	**Date of Collection:**	**10/15/25 11:43:00 A**
Dil. Factor:	**1.73**	**Date of Analysis:**	**11/1/25 03:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.86	Not Detected	8.9	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SGP-38

Lab ID#: 2510650C-25B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103125sim**	**Date of Collection: 10/15/25 11:43:00 A**	
Dil. Factor:	**1.73**	**Date of Analysis: 11/1/25 03:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.086	Not Detected	0.22	Not Detected
Chloroform	0.17	Not Detected	0.84	Not Detected
Benzene	0.35	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
1,1,2-Trichloroethane	0.086	Not Detected	0.47	Not Detected
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.26	Not Detected
Ethyl Benzene	0.35	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.086	Not Detected	0.59	Not Detected
Naphthalene	0.35	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-39-H

Lab ID#: 2510650C-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103126**	**Date of Collection:**	**10/15/25 12:13:00 P**
Dil. Factor:	**1.54**	**Date of Analysis:**	**11/1/25 04:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.77	5.0	3.8	25
Freon 114	0.77	19	5.4	130
Chloromethane	7.7	Not Detected	16	Not Detected
1,3-Butadiene	0.77	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	6.0	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
Freon 11	0.77	1.3	4.3	7.4
Ethanol	7.7	17	14	32
Freon 113	0.77	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Acetone	7.7	12	18	28
2-Propanol	3.1	3.7	7.6	9.1
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
3-Chloropropene	0.77	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Hexane	0.77	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.77	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
cis-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.77	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.77	Not Detected	4.2	Not Detected
Cyclohexane	0.77	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.77	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.77	Not Detected	3.6	Not Detected
Heptane	0.77	Not Detected	3.2	Not Detected
Trichloroethene	0.77	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.77	Not Detected	3.6	Not Detected
1,4-Dioxane	1.5	Not Detected	5.5	Not Detected
Bromodichloromethane	0.77	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.77	Not Detected	3.2	Not Detected
Toluene	1.5	Not Detected	5.8	Not Detected
trans-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
Tetrachloroethene	0.77	0.79	5.2	5.3
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.77	Not Detected	6.6	Not Detected
Chlorobenzene	0.77	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.7	Not Detected
o-Xylene	0.77	Not Detected	3.3	Not Detected
Styrene	0.77	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-39-H

Lab ID#: 2510650C-26A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103126**	**Date of Collection: 10/15/25 12:13:00 P**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/1/25 04:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.77	Not Detected	8.0	Not Detected
Cumene	0.77	Not Detected	3.8	Not Detected
Propylbenzene	0.77	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.77	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.77	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-39-H

Lab ID#: 2510650C-26B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103126sim**	**Date of Collection: 10/15/25 12:13:00 P**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/1/25 04:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.077	Not Detected	0.20	Not Detected
Chloroform	0.15	0.30	0.75	1.5
Benzene	0.31	Not Detected	0.98	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.077	Not Detected	0.42	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.077	Not Detected	0.53	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SGP-39

Lab ID#: 2510650C-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103127**	**Date of Collection: 10/15/25 12:31:00 P**	
Dil. Factor:	**1.67**	**Date of Analysis: 11/1/25 04:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	150	4.1	760
Freon 114	0.84	75	5.8	520
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.3	Not Detected	8.8	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
Ethanol	8.4	10	16	20
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	Not Detected	20	Not Detected
2-Propanol	3.3	Not Detected	8.2	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	3.9	2.9	14
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.8	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	2.3	2.9	7.9
Carbon Tetrachloride	0.84	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.84	7.8	3.9	37
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.8	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.1	Not Detected
Chlorobenzene	0.84	Not Detected	3.8	Not Detected
m,p-Xylene	1.7	Not Detected	7.2	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

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Client Sample ID: SGP-39

Lab ID#: 2510650C-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103127**	**Date of Collection:**	**10/15/25 12:31:00 P**
Dil. Factor:	**1.67**	**Date of Analysis:**	**11/1/25 04:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.6	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	25	Not Detected
Hexachlorobutadiene	3.3	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-39

Lab ID#: 2510650C-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103127sim**	**Date of Collection: 10/15/25 12:31:00 P**	
Dil. Factor:	**1.67**	**Date of Analysis: 11/1/25 04:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	1.1	0.82	5.5
Benzene	0.33	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.57	Not Detected
Naphthalene	0.33	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-51-H

Lab ID#: 2510650C-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103128**	**Date of Collection:**	**10/16/25 10:45:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**11/1/25 05:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	17	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.80	7.0	4.5	39
Ethanol	8.0	17	15	33
Freon 113	0.80	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	Not Detected	19	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.5	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.80	Not Detected	3.3	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-51-H

Lab ID#: 2510650C-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103128**	**Date of Collection: 10/16/25 10:45:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/1/25 05:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.3	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SGP-51-H

Lab ID#: 2510650C-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103128sim**	**Date of Collection: 10/16/25 10:45:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/1/25 05:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-DUP-04

Lab ID#: 2510650C-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103129**	**Date of Collection:**	**10/16/25 10:45:00 A**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/1/25 05:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.9	Not Detected
Freon 114	0.78	Not Detected	5.5	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.1	Not Detected
Chloroethane	3.1	Not Detected	8.3	Not Detected
Freon 11	0.78	6.7	4.4	38
Ethanol	7.8	8.0	15	15
Freon 113	0.78	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	7.8	Not Detected	19	Not Detected
2-Propanol	3.1	Not Detected	7.7	Not Detected
Carbon Disulfide	3.1	Not Detected	9.8	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	1.6	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.2	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.7	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.6	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	5.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.7	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.8	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-DUP-04

Lab ID#: 2510650C-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103129**	**Date of Collection:**	**10/16/25 10:45:00 A**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/1/25 05:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.78	Not Detected	8.1	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: SGP-DUP-04

Lab ID#: 2510650C-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103129sim**	**Date of Collection:**	**10/16/25 10:45:00 A**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/1/25 05:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.078	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
Benzene	0.31	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.078	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.078	Not Detected	0.54	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SGP-51

Lab ID#: 2510650C-30A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103130**	**Date of Collection:**	**10/16/25 10:55:00 A**
Dil. Factor:	**1.54**	**Date of Analysis:**	**11/1/25 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.77	Not Detected	3.8	Not Detected
Freon 114	0.77	Not Detected	5.4	Not Detected
Chloromethane	7.7	Not Detected	16	Not Detected
1,3-Butadiene	0.77	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	6.0	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
Freon 11	0.77	Not Detected	4.3	Not Detected
Ethanol	7.7	17	14	31
Freon 113	0.77	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Acetone	7.7	Not Detected	18	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
3-Chloropropene	0.77	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Hexane	0.77	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.77	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
cis-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.77	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.77	Not Detected	4.2	Not Detected
Cyclohexane	0.77	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.77	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.77	Not Detected	3.6	Not Detected
Heptane	0.77	Not Detected	3.2	Not Detected
Trichloroethene	0.77	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.77	Not Detected	3.6	Not Detected
1,4-Dioxane	1.5	Not Detected	5.5	Not Detected
Bromodichloromethane	0.77	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.77	Not Detected	3.2	Not Detected
Toluene	1.5	Not Detected	5.8	Not Detected
trans-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
Tetrachloroethene	0.77	Not Detected	5.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.77	Not Detected	6.6	Not Detected
Chlorobenzene	0.77	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.7	Not Detected
o-Xylene	0.77	Not Detected	3.3	Not Detected
Styrene	0.77	Not Detected	3.3	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-51

Lab ID#: 2510650C-30A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103130**	**Date of Collection:**	**10/16/25 10:55:00 A**
Dil. Factor:	**1.54**	**Date of Analysis:**	**11/1/25 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.77	Not Detected	8.0	Not Detected
Cumene	0.77	Not Detected	3.8	Not Detected
Propylbenzene	0.77	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.77	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.77	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.77	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-51

Lab ID#: 2510650C-30B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103130sim**	**Date of Collection: 10/16/25 10:55:00 A**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/1/25 06:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.077	Not Detected	0.20	Not Detected
Chloroform	0.15	Not Detected	0.75	Not Detected
Benzene	0.31	Not Detected	0.98	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.077	Not Detected	0.42	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.077	Not Detected	0.53	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-40-H

Lab ID#: 2510650C-31A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103131**	**Date of Collection:**	**10/16/25 11:18:00 A**
Dil. Factor:	**1.53**	**Date of Analysis:**	**11/1/25 06:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	7.7	3.8	38
Freon 114	0.76	7.4	5.3	52
Chloromethane	7.6	Not Detected	16	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	5.9	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
Freon 11	0.76	Not Detected	4.3	Not Detected
Ethanol	7.6	22	14	41
Freon 113	0.76	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Acetone	7.6	8.2	18	19
2-Propanol	3.1	Not Detected	7.5	Not Detected
Carbon Disulfide	3.1	Not Detected	9.5	Not Detected
3-Chloropropene	0.76	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.3	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.0	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.2	Not Detected
Cyclohexane	0.76	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.6	Not Detected
Heptane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.76	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
1,4-Dioxane	1.5	Not Detected	5.5	Not Detected
Bromodichloromethane	0.76	Not Detected	5.1	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
Toluene	1.5	Not Detected	5.8	Not Detected
trans-1,3-Dichloropropene	0.76	Not Detected	3.5	Not Detected
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
2-Hexanone	3.1	Not Detected	12	Not Detected
Dibromochloromethane	0.76	Not Detected	6.5	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	0.76	Not Detected	3.3	Not Detected
Styrene	0.76	Not Detected	3.2	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-40-H

Lab ID#: 2510650C-31A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103131**	**Date of Collection:**	**10/16/25 11:18:00 A**
Dil. Factor:	**1.53**	**Date of Analysis:**	**11/1/25 06:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.76	Not Detected	7.9	Not Detected
Cumene	0.76	Not Detected	3.8	Not Detected
Propylbenzene	0.76	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.76	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.76	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.76	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-40-H

Lab ID#: 2510650C-31B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103131sim**	**Date of Collection: 10/16/25 11:18:00 A**	
Dil. Factor:	**1.53**	**Date of Analysis: 11/1/25 06:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.076	Not Detected	0.20	Not Detected
Chloroform	0.15	Not Detected	0.75	Not Detected
Benzene	0.31	Not Detected	0.98	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.076	Not Detected	0.42	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.076	Not Detected	0.52	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	97	70-130

eurofins | Air Toxics

Client Sample ID: SGP-40

Lab ID#: 2510650C-32A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103132**	**Date of Collection:**	**10/16/25 11:14:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/1/25 07:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
Ethanol	8.4	9.9	16	19
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	Not Detected	20	Not Detected
2-Propanol	3.4	3.9	8.2	9.6
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	9.9	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

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Client Sample ID: SGP-40

Lab ID#: 2510650C-32A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103132**	**Date of Collection:**	**10/16/25 11:14:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/1/25 07:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.7	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: SGP-40

Lab ID#: 2510650C-32B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103132sim**	**Date of Collection: 10/16/25 11:14:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 11/1/25 07:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	1.1	0.82	5.2
Benzene	0.34	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.34	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.58	Not Detected
Naphthalene	0.34	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: SGP-41-H

Lab ID#: 2510650C-33A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110211**	**Date of Collection:**	**10/16/25 11:53:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**11/2/25 02:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	17	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	19 J0	15	36 J0
Freon 113	0.80	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	8.0	19	19
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.5	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.80	Not Detected	3.3	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-41-H

Lab ID#: 2510650C-33A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110211**	**Date of Collection: 10/16/25 11:53:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/2/25 02:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.3	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-41-H

Lab ID#: 2510650C-33B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110211sim**	**Date of Collection: 10/16/25 11:53:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/2/25 02:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	0.22	0.79	1.1
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-41

Lab ID#: 2510650C-34A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110212**	**Date of Collection:**	**10/16/25 12:01:00 P**
Dil. Factor:	**1.51**	**Date of Analysis:**	**11/2/25 02:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	Not Detected	3.7	Not Detected
Freon 114	0.76	Not Detected	5.3	Not Detected
Chloromethane	7.6	Not Detected	16	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	5.9	Not Detected
Chloroethane	3.0	Not Detected	8.0	Not Detected
Freon 11	0.76	Not Detected	4.2	Not Detected
Ethanol	7.6	Not Detected	14	Not Detected
Freon 113	0.76	Not Detected	5.8	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Acetone	7.6	Not Detected	18	Not Detected
2-Propanol	3.0	Not Detected	7.4	Not Detected
Carbon Disulfide	3.0	Not Detected	9.4	Not Detected
3-Chloropropene	0.76	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	8.9	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Cyclohexane	0.76	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.5	Not Detected
Heptane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.76	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
1,4-Dioxane	1.5	Not Detected	5.4	Not Detected
Bromodichloromethane	0.76	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
Toluene	1.5	Not Detected	5.7	Not Detected
trans-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
Tetrachloroethene	0.76	Not Detected	5.1	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.76	Not Detected	6.4	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	0.76	Not Detected	3.3	Not Detected
Styrene	0.76	Not Detected	3.2	Not Detected

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Client Sample ID: SGP-41

Lab ID#: 2510650C-34A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110212**	**Date of Collection: 10/16/25 12:01:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 11/2/25 02:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.76	Not Detected	7.8	Not Detected
Cumene	0.76	Not Detected	3.7	Not Detected
Propylbenzene	0.76	Not Detected	3.7	Not Detected
4-Ethyltoluene	0.76	Not Detected	3.7	Not Detected
1,3,5-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	3.9	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-41

Lab ID#: 2510650C-34B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110212sim**	**Date of Collection: 10/16/25 12:01:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 11/2/25 02:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.076	Not Detected	0.19	Not Detected
Chloroform	0.15	Not Detected	0.74	Not Detected
Benzene	0.30	Not Detected	0.96	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.076	Not Detected	0.41	Not Detected
1,2-Dibromoethane (EDB)	0.030	Not Detected	0.23	Not Detected
Ethyl Benzene	0.30	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.076	Not Detected	0.52	Not Detected
Naphthalene	0.30	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-42-H

Lab ID#: 2510650C-35A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110213**	**Date of Collection:**	**10/16/25 12:32:00 P**
Dil. Factor:	**1.51**	**Date of Analysis:**	**11/2/25 03:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	Not Detected	3.7	Not Detected
Freon 114	0.76	Not Detected	5.3	Not Detected
Chloromethane	7.6	Not Detected	16	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	5.9	Not Detected
Chloroethane	3.0	Not Detected	8.0	Not Detected
Freon 11	0.76	Not Detected	4.2	Not Detected
Ethanol	7.6	16 J0	14	30 J0
Freon 113	0.76	Not Detected	5.8	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Acetone	7.6	11	18	25
2-Propanol	3.0	Not Detected	7.4	Not Detected
Carbon Disulfide	3.0	Not Detected	9.4	Not Detected
3-Chloropropene	0.76	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	8.9	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Cyclohexane	0.76	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.5	Not Detected
Heptane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.76	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
1,4-Dioxane	1.5	Not Detected	5.4	Not Detected
Bromodichloromethane	0.76	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
Toluene	1.5	Not Detected	5.7	Not Detected
trans-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
Tetrachloroethene	0.76	Not Detected	5.1	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.76	Not Detected	6.4	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	0.76	Not Detected	3.3	Not Detected
Styrene	0.76	Not Detected	3.2	Not Detected

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Client Sample ID: SGP-42-H

Lab ID#: 2510650C-35A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110213**	**Date of Collection: 10/16/25 12:32:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 11/2/25 03:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.76	Not Detected	7.8	Not Detected
Cumene	0.76	Not Detected	3.7	Not Detected
Propylbenzene	0.76	Not Detected	3.7	Not Detected
4-Ethyltoluene	0.76	Not Detected	3.7	Not Detected
1,3,5-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	3.9	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: SGP-42-H

Lab ID#: 2510650C-35B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110213sim**	**Date of Collection: 10/16/25 12:32:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 11/2/25 03:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.076	Not Detected	0.19	Not Detected
Chloroform	0.15	0.25	0.74	1.2
Benzene	0.30	Not Detected	0.96	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.076	Not Detected	0.41	Not Detected
1,2-Dibromoethane (EDB)	0.030	Not Detected	0.23	Not Detected
Ethyl Benzene	0.30	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.076	Not Detected	0.52	Not Detected
Naphthalene	0.30	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-42

Lab ID#: 2510650C-36A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110214**	**Date of Collection:**	**10/16/25 12:40:00 P**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/2/25 03:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
Ethanol	8.4	Not Detected	16	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	Not Detected	20	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	9.9	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-42

Lab ID#: 2510650C-36A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110214**	**Date of Collection:**	**10/16/25 12:40:00 P**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/2/25 03:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.7	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-42

Lab ID#: 2510650C-36B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110214sim**	**Date of Collection:**	**10/16/25 12:40:00 P**
Dil. Factor:	**1.68**	**Date of Analysis:**	**11/2/25 03:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
Benzene	0.34	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.34	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.58	Not Detected
Naphthalene	0.34	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650C-37A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650C-37A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650C-37B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650C-37C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 09:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650C-37C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 09:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650C-37D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 09:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: CCV

Lab ID#: 2510650C-38A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**

Compound	%Recovery
Freon 12	111
Freon 114	101
Chloromethane	106
1,3-Butadiene	116
Bromomethane	110
Chloroethane	115
Freon 11	102
Ethanol	107
Freon 113	98
1,1-Dichloroethene	105
Acetone	109
2-Propanol	111
Carbon Disulfide	104
3-Chloropropene	112
Methylene Chloride	112
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	107
Hexane	120
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	109
Tetrahydrofuran	116
1,1,1-Trichloroethane	104
Cyclohexane	111
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	116
Heptane	112
Trichloroethene	102
1,2-Dichloropropane	110
1,4-Dioxane	102
Bromodichloromethane	106
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	116
Toluene	105
trans-1,3-Dichloropropene	110
Tetrachloroethene	99
2-Hexanone	118
Dibromochloromethane	102
Chlorobenzene	103
m,p-Xylene	108
o-Xylene	109
Styrene	109

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Client Sample ID: CCV

Lab ID#: 2510650C-38A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**	

Compound	%Recovery
Bromoform	102
Cumene	111
Propylbenzene	106
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: CCV

Lab ID#: 2510650C-38B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**	

Compound	%Recovery
Vinyl Chloride	113
Chloroform	105
Benzene	108
1,2-Dichloroethane	101
1,1,2-Trichloroethane	106
1,2-Dibromoethane (EDB)	100
Ethyl Benzene	106
1,1,2,2-Tetrachloroethane	103
Naphthalene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 2510650C-38C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 07:39 AM**

Compound	%Recovery
Freon 12	112
Freon 114	104
Chloromethane	111
1,3-Butadiene	120
Bromomethane	113
Chloroethane	118
Freon 11	103
Ethanol	133 Q
Freon 113	102
1,1-Dichloroethene	109
Acetone	112
2-Propanol	115
Carbon Disulfide	107
3-Chloropropene	118
Methylene Chloride	115
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	110
Hexane	124
1,1-Dichloroethane	116
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	112
Tetrahydrofuran	120
1,1,1-Trichloroethane	108
Cyclohexane	114
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	120
Heptane	117
Trichloroethene	106
1,2-Dichloropropane	113
1,4-Dioxane	106
Bromodichloromethane	112
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	120
Toluene	107
trans-1,3-Dichloropropene	116
Tetrachloroethene	104
2-Hexanone	124
Dibromochloromethane	107
Chlorobenzene	109
m,p-Xylene	113
o-Xylene	115
Styrene	116

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Client Sample ID: CCV

Lab ID#: 2510650C-38C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 07:39 AM**	

Compound	%Recovery
Bromoform	105
Cumene	118
Propylbenzene	111
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 2510650C-38D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 07:39 AM**

Compound	%Recovery
Vinyl Chloride	118
Chloroform	108
Benzene	110
1,2-Dichloroethane	103
1,1,2-Trichloroethane	109
1,2-Dibromoethane (EDB)	104
Ethyl Benzene	110
1,1,2,2-Tetrachloroethane	106
Naphthalene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650C-39A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	99	70-130
Chloromethane	106	70-130
1,3-Butadiene	116	70-130
Bromomethane	109	70-130
Chloroethane	112	70-130
Freon 11	100	70-130
Ethanol	109	70-130
Freon 113	95	70-130
1,1-Dichloroethene	101	70-130
Acetone	104	70-130
2-Propanol	124	70-130
Carbon Disulfide	99	70-130
3-Chloropropene	112	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	114	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	114	70-130
1,1,1-Trichloroethane	102	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	112	70-130
Heptane	109	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	108	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	115	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	97	70-130
2-Hexanone	118	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	103	70-130
m,p-Xylene	107	70-130
o-Xylene	108	70-130
Styrene	110	70-130

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Client Sample ID: LCS

Lab ID#: 2510650C-39A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Bromoform	100	70-130
Cumene	108	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	122	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650C-39AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	101	70-130
Chloromethane	108	70-130
1,3-Butadiene	118	70-130
Bromomethane	114	70-130
Chloroethane	113	70-130
Freon 11	102	70-130
Ethanol	129	70-130
Freon 113	97	70-130
1,1-Dichloroethene	103	70-130
Acetone	107	70-130
2-Propanol	126	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	114	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	110	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	115	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	118	70-130
1,1,1-Trichloroethane	106	70-130
Cyclohexane	112	70-130
Carbon Tetrachloride	101	70-130
2,2,4-Trimethylpentane	115	70-130
Heptane	112	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	109	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	111	70-130
4-Methyl-2-pentanone	119	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	98	70-130
2-Hexanone	119	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	103	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130
Styrene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650C-39AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Bromoform	99	70-130
Cumene	108	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	111	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	122	70-130
Hexachlorobutadiene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCS

Lab ID#: 2510650C-39B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	115	70-130
Chloroform	101	70-130
Benzene	109	70-130
1,2-Dichloroethane	100	70-130
1,1,2-Trichloroethane	105	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	106	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	113	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650C-39BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	116	70-130
Chloroform	103	70-130
Benzene	109	70-130
1,2-Dichloroethane	101	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	107	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	115	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650C-39C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:04 AM**	

Compound	%Recovery	Method Limits
Freon 12	111	70-130
Freon 114	102	70-130
Chloromethane	107	70-130
1,3-Butadiene	119	70-130
Bromomethane	114	70-130
Chloroethane	115	70-130
Freon 11	103	70-130
Ethanol	120	70-130
Freon 113	96	70-130
1,1-Dichloroethene	103	70-130
Acetone	108	70-130
2-Propanol	127	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	115	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	116	70-130
1,1-Dichloroethane	111	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	109	70-130
Tetrahydrofuran	118	70-130
1,1,1-Trichloroethane	105	70-130
Cyclohexane	110	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	114	70-130
Heptane	109	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	107	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	109	70-130
4-Methyl-2-pentanone	118	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	113	70-130
Tetrachloroethene	100	70-130
2-Hexanone	121	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	104	70-130
m,p-Xylene	110	70-130
o-Xylene	109	70-130
Styrene	111	70-130

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Client Sample ID: LCS

Lab ID#: 2510650C-39C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:04 AM**	

Compound	%Recovery	Method Limits
Bromoform	101	70-130
Cumene	111	70-130
Propylbenzene	105	70-130
4-Ethyltoluene	108	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	116	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	123	70-130
Hexachlorobutadiene	108	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650C-39CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:30 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	99	70-130
Chloromethane	107	70-130
1,3-Butadiene	116	70-130
Bromomethane	114	70-130
Chloroethane	113	70-130
Freon 11	100	70-130
Ethanol	112	70-130
Freon 113	97	70-130
1,1-Dichloroethene	102	70-130
Acetone	106	70-130
2-Propanol	125	70-130
Carbon Disulfide	101	70-130
3-Chloropropene	114	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	105	70-130
Hexane	115	70-130
1,1-Dichloroethane	109	70-130
2-Butanone (Methyl Ethyl Ketone)	108	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	116	70-130
1,1,1-Trichloroethane	104	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	114	70-130
Heptane	110	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	107	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	118	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	99	70-130
2-Hexanone	121	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	103	70-130
m,p-Xylene	108	70-130
o-Xylene	108	70-130
Styrene	110	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650C-39CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:30 AM**	

Compound	%Recovery	Method Limits
Bromoform	99	70-130
Cumene	109	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	121	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCS

Lab ID#: 2510650C-39D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:04 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	114	70-130
Chloroform	102	70-130
Benzene	110	70-130
1,2-Dichloroethane	100	70-130
1,1,2-Trichloroethane	106	70-130
1,2-Dibromoethane (EDB)	100	70-130
Ethyl Benzene	109	70-130
1,1,2,2-Tetrachloroethane	103	70-130
Naphthalene	114	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650C-39DD

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/25 08:30 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	114	70-130
Chloroform	101	70-130
Benzene	108	70-130
1,2-Dichloroethane	99	70-130
1,1,2-Trichloroethane	105	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	106	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	114	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.050
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	1.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	1.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.20
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	1.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.050
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.020

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.20
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.050
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0
91-20-3	Naphthalene	0.20

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analytical Report

11/3/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650D

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650D

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/03/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
37A	SGP-52-H	TO-15	8.4 "Hg	1.9 psi
37B	SGP-52-H	TO-15	8.4 "Hg	1.9 psi
38A	SGP-DUP-05	TO-15	9.4 "Hg	1.9 psi
38B	SGP-DUP-05	TO-15	9.4 "Hg	1.9 psi
39A	SGP-52	TO-15	6.3 "Hg	1.9 psi
39B	SGP-52	TO-15	6.3 "Hg	1.9 psi
40A	SGP-53-H	TO-15	6.3 "Hg	1.9 psi
40B	SGP-53-H	TO-15	6.3 "Hg	1.9 psi
41A	SGP-53	TO-15	10.4 "Hg	1.9 psi
41B	SGP-53	TO-15	10.4 "Hg	1.9 psi
42A	SGP-55-H	TO-15	8.6 "Hg	1.9 psi
42B	SGP-55-H	TO-15	8.6 "Hg	1.9 psi
43A	SGP-55	TO-15	9.2 "Hg	2 psi
43B	SGP-55	TO-15	9.2 "Hg	2 psi
44A	SGP-44-H	TO-15	7.6 "Hg	1.9 psi
44B	SGP-44-H	TO-15	7.6 "Hg	1.9 psi
45A	SGP-44	TO-15	9 "Hg	1.9 psi
45B	SGP-44	TO-15	9 "Hg	1.9 psi
46A	SGP-50-H	TO-15	9.6 "Hg	1.9 psi
46B	SGP-50-H	TO-15	9.6 "Hg	1.9 psi
47A	SGP-DUP-06	TO-15	7.1 "Hg	1.9 psi
47B	SGP-DUP-06	TO-15	7.1 "Hg	1.9 psi
48A	SGP-50	TO-15	9.6 "Hg	1.9 psi

Continued on next page

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WORK ORDER #: 2510650D

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/03/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
49A	Lab Blank	TO-15	NA	NA
49B	Lab Blank	TO-15	NA	NA
49C	Lab Blank	TO-15	NA	NA
50A	CCV	TO-15	NA	NA
50B	CCV	TO-15	NA	NA
50C	CCV	TO-15	NA	NA
51A	LCS	TO-15	NA	NA
51AA	LCSD	TO-15	NA	NA
51B	LCS	TO-15	NA	NA
51BB	LCSD	TO-15	NA	NA
51C	LCS	TO-15	NA	NA
51CC	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/03/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
EPA Method TO-15 (Hybrid)
S & ME, Inc.
Workorder# 2510650D

Twelve 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file. (analytical batch from instrument ID MSD-3)

Dilution was performed on sample SGP-50 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-52-H

Lab ID#: 2510650D-37A

No Detections Were Found.

Client Sample ID: SGP-52-H

Lab ID#: 2510650D-37B

No Detections Were Found.

Client Sample ID: SGP-DUP-05

Lab ID#: 2510650D-38A

No Detections Were Found.

Client Sample ID: SGP-DUP-05

Lab ID#: 2510650D-38B

No Detections Were Found.

Client Sample ID: SGP-52

Lab ID#: 2510650D-39A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.72	22	3.5	110
Freon 114	0.72	31	5.0	220
1,1-Dichloroethane	0.72	0.99	2.9	4.0
Cyclohexane	0.72	1.1	2.5	3.9
2,2,4-Trimethylpentane	0.72	58	3.3	270

Client Sample ID: SGP-52

Lab ID#: 2510650D-39B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.14	1.2	0.70	5.9
Benzene	0.29	0.32	0.91	1.0

Client Sample ID: SGP-53-H

Lab ID#: 2510650D-40A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-53-H

Lab ID#: 2510650D-40A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.72	0.80	3.5	4.0
Ethanol	7.2	9.4	13	18
2-Propanol	2.9	2.9	7.0	7.0

Client Sample ID: SGP-53-H

Lab ID#: 2510650D-40B

No Detections Were Found.

Client Sample ID: SGP-53

Lab ID#: 2510650D-41A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	4.8	4.3	24
Freon 114	0.86	11	6.0	74
Ethanol	8.6	9.5	16	18
Acetone	8.6	11	20	27
Hexane	0.86	2.2	3.0	7.6
2,2,4-Trimethylpentane	0.86	23	4.0	110

Client Sample ID: SGP-53

Lab ID#: 2510650D-41B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.086	0.32	0.22	0.81
Chloroform	0.17	0.19	0.84	0.93

Client Sample ID: SGP-55-H

Lab ID#: 2510650D-42A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	0.79	1.6	5.5	11
Ethanol	7.9	11	15	20

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-55-H

Lab ID#: 2510650D-42A

Acetone	7.9	9.4	19	22

Client Sample ID: SGP-55-H

Lab ID#: 2510650D-42B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	7.5	0.77	37

Client Sample ID: SGP-55

Lab ID#: 2510650D-43A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	0.82	1.2	5.7	8.2
Ethanol	8.2	8.6	15	16
Acetone	8.2	13	19	30

Client Sample ID: SGP-55

Lab ID#: 2510650D-43B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	1.2	0.80	6.1

Client Sample ID: SGP-44-H

Lab ID#: 2510650D-44A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.6	9.3	14	18
Acetone	7.6	8.7	18	20
2-Propanol	3.0	3.0 J	7.4	7.3 J

Client Sample ID: SGP-44-H

Lab ID#: 2510650D-44B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-44-H

Lab ID#: 2510650D-44B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.15	0.46	0.74	2.2

Client Sample ID: SGP-44

Lab ID#: 2510650D-45A

No Detections Were Found.

Client Sample ID: SGP-44

Lab ID#: 2510650D-45B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	1.3	0.79	6.4

Client Sample ID: SGP-50-H

Lab ID#: 2510650D-46A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.83	23	4.1	110
Freon 114	0.83	12	5.8	84
Chloroethane	3.3	4.3	8.8	11
Ethanol	8.3	9.1	16	17
trans-1,2-Dichloroethene	0.83	1.3	3.3	5.0
Hexane	0.83	5.8	2.9	20
1,1-Dichloroethane	0.83	0.84	3.4	3.4
cis-1,2-Dichloroethene	0.83	3.0	3.3	12
Cyclohexane	0.83	6.7	2.8	23
2,2,4-Trimethylpentane	0.83	25	3.9	120

Client Sample ID: SGP-50-H

Lab ID#: 2510650D-46B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.083	18	0.21	46

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-50-H

Lab ID#: 2510650D-46B

Benzene	0.33	3.3	1.1	11

Client Sample ID: SGP-DUP-06

Lab ID#: 2510650D-47A

No Detections Were Found.

Client Sample ID: SGP-DUP-06

Lab ID#: 2510650D-47B

No Detections Were Found.

Client Sample ID: SGP-50

Lab ID#: 2510650D-48A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.3	230	41	1100
Freon 114	8.3	100	58	740
Chloromethane	33	74	68	150
Vinyl Chloride	8.3	460	21	1200
Chloroethane	33	100	88	260
Acetone	33	140	79	330
trans-1,2-Dichloroethene	8.3	19	33	74
Hexane	8.3	290	29	1000
1,1-Dichloroethane	8.3	44	34	180
cis-1,2-Dichloroethene	8.3	140	33	550
Cyclohexane	8.3	190	28	660
2,2,4-Trimethylpentane	8.3	180	39	860
Benzene	8.3	72	26	230
Heptane	8.3	260	34	1000
1,2-Dichloropropane	8.3	27	38	130
Toluene	8.3	15	31	55
Cumene	8.3	9.5	41	47

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Client Sample ID: SGP-52-H

Lab ID#: 2510650D-37A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103027**	**Date of Collection:**	**10/17/25 10:19:00 A**
Dil. Factor:	**1.57**	**Date of Analysis:**	**10/31/25 01:33 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.9	Not Detected
Freon 114	0.78	Not Detected	5.5	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.1	Not Detected
Chloroethane	3.1	Not Detected	8.3	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	7.8	Not Detected	15	Not Detected
Freon 113	0.78	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	7.8	Not Detected	19	Not Detected
2-Propanol	3.1	Not Detected	7.7	Not Detected
Carbon Disulfide	3.1	Not Detected	9.8	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	1.6	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.2	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.7	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.6	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	5.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.7	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.8	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-52-H

Lab ID#: 2510650D-37A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103027**	**Date of Collection: 10/17/25 10:19:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 10/31/25 01:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.78	Not Detected	8.1	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-52-H

Lab ID#: 2510650D-37B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103027sim**	**Date of Collection: 10/17/25 10:19:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 10/31/25 01:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.078	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
Benzene	0.31	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.078	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.078	Not Detected	0.54	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-DUP-05

Lab ID#: 2510650D-38A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103028**	**Date of Collection:**	**10/17/25 10:19:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**10/31/25 02:00 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	Not Detected	15	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	1.6	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-DUP-05

Lab ID#: 2510650D-38A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103028**	**Date of Collection:**	**10/17/25 10:19:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**10/31/25 02:00 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-DUP-05

Lab ID#: 2510650D-38B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103028sim**	**Date of Collection: 10/17/25 10:19:00 A**	
Dil. Factor:	**1.64**	**Date of Analysis: 10/31/25 02:00 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.56	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-52

Lab ID#: 2510650D-39A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103029**	**Date of Collection:**	**10/17/25 10:38:00 A**
Dil. Factor:	**1.43**	**Date of Analysis:**	**10/31/25 02:29 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.72	22	3.5	110
Freon 114	0.72	31	5.0	220
Chloromethane	7.2	Not Detected	15	Not Detected
1,3-Butadiene	0.72	Not Detected	1.6	Not Detected
Bromomethane	1.4	Not Detected	5.6	Not Detected
Chloroethane	2.9	Not Detected	7.5	Not Detected
Freon 11	0.72	Not Detected	4.0	Not Detected
Ethanol	7.2	Not Detected	13	Not Detected
Freon 113	0.72	Not Detected	5.5	Not Detected
1,1-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Acetone	7.2	Not Detected	17	Not Detected
2-Propanol	2.9	Not Detected	7.0	Not Detected
Carbon Disulfide	2.9	Not Detected	8.9	Not Detected
3-Chloropropene	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	1.4	Not Detected	5.0	Not Detected
Methyl tert-butyl ether	2.9	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Hexane	0.72	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.72	0.99	2.9	4.0
2-Butanone (Methyl Ethyl Ketone)	2.9	Not Detected	8.4	Not Detected
cis-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.72	Not Detected	2.1	Not Detected
1,1,1-Trichloroethane	0.72	Not Detected	3.9	Not Detected
Cyclohexane	0.72	1.1	2.5	3.9
Carbon Tetrachloride	0.72	Not Detected	4.5	Not Detected
2,2,4-Trimethylpentane	0.72	58	3.3	270
Heptane	0.72	Not Detected	2.9	Not Detected
Trichloroethene	0.72	Not Detected	3.8	Not Detected
1,2-Dichloropropane	0.72	Not Detected	3.3	Not Detected
1,4-Dioxane	1.4	Not Detected	5.2	Not Detected
Bromodichloromethane	0.72	Not Detected	4.8	Not Detected
cis-1,3-Dichloropropene	0.72	Not Detected	3.2	Not Detected
4-Methyl-2-pentanone	0.72	Not Detected	2.9	Not Detected
Toluene	1.4	Not Detected	5.4	Not Detected
trans-1,3-Dichloropropene	0.72	Not Detected	3.2	Not Detected
Tetrachloroethene	0.72	Not Detected	4.8	Not Detected
2-Hexanone	2.9	Not Detected	12	Not Detected
Dibromochloromethane	0.72	Not Detected	6.1	Not Detected
Chlorobenzene	0.72	Not Detected	3.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.2	Not Detected
o-Xylene	0.72	Not Detected	3.1	Not Detected
Styrene	0.72	Not Detected	3.0	Not Detected

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Client Sample ID: SGP-52

Lab ID#: 2510650D-39A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103029**	**Date of Collection: 10/17/25 10:38:00 A**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/31/25 02:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.72	Not Detected	7.4	Not Detected
Cumene	0.72	Not Detected	3.5	Not Detected
Propylbenzene	0.72	Not Detected	3.5	Not Detected
4-Ethyltoluene	0.72	Not Detected	3.5	Not Detected
1,3,5-Trimethylbenzene	0.72	Not Detected	3.5	Not Detected
1,2,4-Trimethylbenzene	0.72	Not Detected	3.5	Not Detected
1,3-Dichlorobenzene	0.72	Not Detected	4.3	Not Detected
1,4-Dichlorobenzene	0.72	Not Detected	4.3	Not Detected
alpha-Chlorotoluene	0.72	Not Detected	3.7	Not Detected
1,2-Dichlorobenzene	0.72	Not Detected	4.3	Not Detected
1,2,4-Trichlorobenzene	2.9	Not Detected	21	Not Detected
Hexachlorobutadiene	2.9	Not Detected	30	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-52

Lab ID#: 2510650D-39B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103029sim**	**Date of Collection: 10/17/25 10:38:00 A**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/31/25 02:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.072	Not Detected	0.18	Not Detected
Chloroform	0.14	1.2	0.70	5.9
Benzene	0.29	0.32	0.91	1.0
1,2-Dichloroethane	0.14	Not Detected	0.58	Not Detected
1,1,2-Trichloroethane	0.072	Not Detected	0.39	Not Detected
1,2-Dibromoethane (EDB)	0.029	Not Detected	0.22	Not Detected
Ethyl Benzene	0.29	Not Detected	1.2	Not Detected
1,1,2,2-Tetrachloroethane	0.072	Not Detected	0.49	Not Detected
Naphthalene	0.29	Not Detected	1.5	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-53-H

Lab ID#: 2510650D-40A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103030**	**Date of Collection:**	**10/17/25 11:08:00 A**
Dil. Factor:	**1.43**	**Date of Analysis:**	**10/31/25 02:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.72	0.80	3.5	4.0
Freon 114	0.72	Not Detected	5.0	Not Detected
Chloromethane	7.2	Not Detected	15	Not Detected
1,3-Butadiene	0.72	Not Detected	1.6	Not Detected
Bromomethane	1.4	Not Detected	5.6	Not Detected
Chloroethane	2.9	Not Detected	7.5	Not Detected
Freon 11	0.72	Not Detected	4.0	Not Detected
Ethanol	7.2	9.4	13	18
Freon 113	0.72	Not Detected	5.5	Not Detected
1,1-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Acetone	7.2	Not Detected	17	Not Detected
2-Propanol	2.9	2.9	7.0	7.0
Carbon Disulfide	2.9	Not Detected	8.9	Not Detected
3-Chloropropene	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	1.4	Not Detected	5.0	Not Detected
Methyl tert-butyl ether	2.9	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Hexane	0.72	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.72	Not Detected	2.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.9	Not Detected	8.4	Not Detected
cis-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.72	Not Detected	2.1	Not Detected
1,1,1-Trichloroethane	0.72	Not Detected	3.9	Not Detected
Cyclohexane	0.72	Not Detected	2.5	Not Detected
Carbon Tetrachloride	0.72	Not Detected	4.5	Not Detected
2,2,4-Trimethylpentane	0.72	Not Detected	3.3	Not Detected
Heptane	0.72	Not Detected	2.9	Not Detected
Trichloroethene	0.72	Not Detected	3.8	Not Detected
1,2-Dichloropropane	0.72	Not Detected	3.3	Not Detected
1,4-Dioxane	1.4	Not Detected	5.2	Not Detected
Bromodichloromethane	0.72	Not Detected	4.8	Not Detected
cis-1,3-Dichloropropene	0.72	Not Detected	3.2	Not Detected
4-Methyl-2-pentanone	0.72	Not Detected	2.9	Not Detected
Toluene	1.4	Not Detected	5.4	Not Detected
trans-1,3-Dichloropropene	0.72	Not Detected	3.2	Not Detected
Tetrachloroethene	0.72	Not Detected	4.8	Not Detected
2-Hexanone	2.9	Not Detected	12	Not Detected
Dibromochloromethane	0.72	Not Detected	6.1	Not Detected
Chlorobenzene	0.72	Not Detected	3.3	Not Detected
m,p-Xylene	1.4	Not Detected	6.2	Not Detected
o-Xylene	0.72	Not Detected	3.1	Not Detected
Styrene	0.72	Not Detected	3.0	Not Detected

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Client Sample ID: SGP-53-H

Lab ID#: 2510650D-40A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103030**	**Date of Collection: 10/17/25 11:08:00 A**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/31/25 02:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.72	Not Detected	7.4	Not Detected
Cumene	0.72	Not Detected	3.5	Not Detected
Propylbenzene	0.72	Not Detected	3.5	Not Detected
4-Ethyltoluene	0.72	Not Detected	3.5	Not Detected
1,3,5-Trimethylbenzene	0.72	Not Detected	3.5	Not Detected
1,2,4-Trimethylbenzene	0.72	Not Detected	3.5	Not Detected
1,3-Dichlorobenzene	0.72	Not Detected	4.3	Not Detected
1,4-Dichlorobenzene	0.72	Not Detected	4.3	Not Detected
alpha-Chlorotoluene	0.72	Not Detected	3.7	Not Detected
1,2-Dichlorobenzene	0.72	Not Detected	4.3	Not Detected
1,2,4-Trichlorobenzene	2.9	Not Detected	21	Not Detected
Hexachlorobutadiene	2.9	Not Detected	30	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-53-H

Lab ID#: 2510650D-40B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103030sim**	**Date of Collection: 10/17/25 11:08:00 A**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/31/25 02:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.072	Not Detected	0.18	Not Detected
Chloroform	0.14	Not Detected	0.70	Not Detected
Benzene	0.29	Not Detected	0.91	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.58	Not Detected
1,1,2-Trichloroethane	0.072	Not Detected	0.39	Not Detected
1,2-Dibromoethane (EDB)	0.029	Not Detected	0.22	Not Detected
Ethyl Benzene	0.29	Not Detected	1.2	Not Detected
1,1,2,2-Tetrachloroethane	0.072	Not Detected	0.49	Not Detected
Naphthalene	0.29	Not Detected	1.5	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-53

Lab ID#: 2510650D-41A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103031**	**Date of Collection:**	**10/17/25 11:17:00 A**
Dil. Factor:	**1.73**	**Date of Analysis:**	**10/31/25 03:25 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	4.8	4.3	24
Freon 114	0.86	11	6.0	74
Chloromethane	8.6	Not Detected	18	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	1.7	Not Detected	6.7	Not Detected
Chloroethane	3.5	Not Detected	9.1	Not Detected
Freon 11	0.86	Not Detected	4.9	Not Detected
Ethanol	8.6	9.5	16	18
Freon 113	0.86	Not Detected	6.6	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	8.6	11	20	27
2-Propanol	3.5	Not Detected	8.5	Not Detected
Carbon Disulfide	3.5	Not Detected	11	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	1.7	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	2.2	3.0	7.6
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.6	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	23	4.0	110
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	1.7	Not Detected	6.2	Not Detected
Bromodichloromethane	0.86	Not Detected	5.8	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	1.7	Not Detected	6.5	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Tetrachloroethene	0.86	Not Detected	5.9	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Dibromochloromethane	0.86	Not Detected	7.4	Not Detected
Chlorobenzene	0.86	Not Detected	4.0	Not Detected
m,p-Xylene	1.7	Not Detected	7.5	Not Detected
o-Xylene	0.86	Not Detected	3.8	Not Detected
Styrene	0.86	Not Detected	3.7	Not Detected

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Client Sample ID: SGP-53

Lab ID#: 2510650D-41A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103031**	**Date of Collection:**	**10/17/25 11:17:00 A**
Dil. Factor:	**1.73**	**Date of Analysis:**	**10/31/25 03:25 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.86	Not Detected	8.9	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-53

Lab ID#: 2510650D-41B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103031sim**	**Date of Collection: 10/17/25 11:17:00 A**	
Dil. Factor:	**1.73**	**Date of Analysis: 10/31/25 03:25 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.086	0.32	0.22	0.81
Chloroform	0.17	0.19	0.84	0.93
Benzene	0.35	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
1,1,2-Trichloroethane	0.086	Not Detected	0.47	Not Detected
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.26	Not Detected
Ethyl Benzene	0.35	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.086	Not Detected	0.59	Not Detected
Naphthalene	0.35	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-55-H

Lab ID#: 2510650D-42A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103032**	**Date of Collection:**	**10/17/25 11:38:00 A**
Dil. Factor:	**1.58**	**Date of Analysis:**	**10/31/25 09:29 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.79	Not Detected	3.9	Not Detected
Freon 114	0.79	1.6	5.5	11
Chloromethane	7.9	Not Detected	16	Not Detected
1,3-Butadiene	0.79	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.1	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
Freon 11	0.79	Not Detected	4.4	Not Detected
Ethanol	7.9	11	15	20
Freon 113	0.79	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Acetone	7.9	9.4	19	22
2-Propanol	3.2	Not Detected	7.8	Not Detected
Carbon Disulfide	3.2	Not Detected	9.8	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Hexane	0.79	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.3	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Cyclohexane	0.79	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Heptane	0.79	Not Detected	3.2	Not Detected
Trichloroethene	0.79	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.7	Not Detected
Bromodichloromethane	0.79	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	6.0	Not Detected
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.79	Not Detected	6.7	Not Detected
Chlorobenzene	0.79	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.9	Not Detected
o-Xylene	0.79	Not Detected	3.4	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-55-H

Lab ID#: 2510650D-42A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103032**	**Date of Collection:**	**10/17/25 11:38:00 A**
Dil. Factor:	**1.58**	**Date of Analysis:**	**10/31/25 09:29 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.79	Not Detected	8.2	Not Detected
Cumene	0.79	Not Detected	3.9	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	23	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SGP-55-H

Lab ID#: 2510650D-42B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103032sim**	**Date of Collection: 10/17/25 11:38:00 A**	
Dil. Factor:	**1.58**	**Date of Analysis: 10/31/25 09:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.079	Not Detected	0.20	Not Detected
Chloroform	0.16	7.5	0.77	37
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.079	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.079	Not Detected	0.54	Not Detected
Naphthalene	0.32	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SGP-55

Lab ID#: 2510650D-43A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103033**	**Date of Collection:**	**10/17/25 11:50:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**10/31/25 09:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	1.2	5.7	8.2
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	8.6	15	16
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	13	19	30
2-Propanol	3.3	Not Detected	8.1	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	1.6	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-55

Lab ID#: 2510650D-43A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103033**	**Date of Collection:**	**10/17/25 11:50:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**10/31/25 09:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-55

Lab ID#: 2510650D-43B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103033sim**	**Date of Collection: 10/17/25 11:50:00 A**	
Dil. Factor:	**1.64**	**Date of Analysis: 10/31/25 09:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	1.2	0.80	6.1
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.56	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-44-H

Lab ID#: 2510650D-44A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103042**	**Date of Collection:**	**10/17/25 12:13:00 P**
Dil. Factor:	**1.51**	**Date of Analysis:**	**10/31/25 02:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	Not Detected	3.7	Not Detected
Freon 114	0.76	Not Detected	5.3	Not Detected
Chloromethane	7.6	Not Detected	16	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Bromomethane	1.5	Not Detected	5.9	Not Detected
Chloroethane	3.0	Not Detected	8.0	Not Detected
Freon 11	0.76	Not Detected	4.2	Not Detected
Ethanol	7.6	9.3	14	18
Freon 113	0.76	Not Detected	5.8	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Acetone	7.6	8.7	18	20
2-Propanol	3.0	3.0 J	7.4	7.3 J
Carbon Disulfide	3.0	Not Detected	9.4	Not Detected
3-Chloropropene	0.76	Not Detected	2.4	Not Detected
Methylene Chloride	1.5	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	8.9	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Cyclohexane	0.76	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.5	Not Detected
Heptane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.76	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
1,4-Dioxane	1.5	Not Detected	5.4	Not Detected
Bromodichloromethane	0.76	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
Toluene	1.5	Not Detected	5.7	Not Detected
trans-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
Tetrachloroethene	0.76	Not Detected	5.1	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.76	Not Detected	6.4	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
m,p-Xylene	1.5	Not Detected	6.6	Not Detected
o-Xylene	0.76	Not Detected	3.3	Not Detected
Styrene	0.76	Not Detected	3.2	Not Detected

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Client Sample ID: SGP-44-H

Lab ID#: 2510650D-44A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103042**	**Date of Collection:**	**10/17/25 12:13:00 P**
Dil. Factor:	**1.51**	**Date of Analysis:**	**10/31/25 02:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.76	Not Detected	7.8	Not Detected
Cumene	0.76	Not Detected	3.7	Not Detected
Propylbenzene	0.76	Not Detected	3.7	Not Detected
4-Ethyltoluene	0.76	Not Detected	3.7	Not Detected
1,3,5-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	3.9	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.5	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-44-H

Lab ID#: 2510650D-44B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103042sim**	**Date of Collection: 10/17/25 12:13:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 10/31/25 02:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.076	Not Detected	0.19	Not Detected
Chloroform	0.15	0.46	0.74	2.2
Benzene	0.30	Not Detected	0.96	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.076	Not Detected	0.41	Not Detected
1,2-Dibromoethane (EDB)	0.030	Not Detected	0.23	Not Detected
Ethyl Benzene	0.30	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.076	Not Detected	0.52	Not Detected
Naphthalene	0.30	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-44

Lab ID#: 2510650D-45A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103044**	**Date of Collection:**	**10/17/25 12:22:00 P**
Dil. Factor:	**1.61**	**Date of Analysis:**	**10/31/25 03:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	17	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	Not Detected	15	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	Not Detected	19	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.5	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.80	Not Detected	3.3	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-44

Lab ID#: 2510650D-45A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103044**	**Date of Collection:**	**10/17/25 12:22:00 P**
Dil. Factor:	**1.61**	**Date of Analysis:**	**10/31/25 03:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.3	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-44

Lab ID#: 2510650D-45B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103044sim**	**Date of Collection: 10/17/25 12:22:00 P**	
Dil. Factor:	**1.61**	**Date of Analysis: 10/31/25 03:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	1.3	0.79	6.4
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SGP-50-H

Lab ID#: 2510650D-46A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103036**	**Date of Collection:**	**10/20/25 10:13:00 A**
Dil. Factor:	**1.66**	**Date of Analysis:**	**10/31/25 11:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.83	23	4.1	110
Freon 114	0.83	12	5.8	84
Chloromethane	8.3	Not Detected	17	Not Detected
1,3-Butadiene	0.83	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.4	Not Detected
Chloroethane	3.3	4.3	8.8	11
Freon 11	0.83	Not Detected	4.7	Not Detected
Ethanol	8.3	9.1	16	17
Freon 113	0.83	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.83	Not Detected	3.3	Not Detected
Acetone	8.3	Not Detected	20	Not Detected
2-Propanol	3.3	Not Detected	8.2	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.83	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.83	1.3	3.3	5.0
Hexane	0.83	5.8	2.9	20
1,1-Dichloroethane	0.83	0.84	3.4	3.4
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.8	Not Detected
cis-1,2-Dichloroethene	0.83	3.0	3.3	12
Tetrahydrofuran	0.83	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.83	Not Detected	4.5	Not Detected
Cyclohexane	0.83	6.7	2.8	23
Carbon Tetrachloride	0.83	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.83	25	3.9	120
Heptane	0.83	Not Detected	3.4	Not Detected
Trichloroethene	0.83	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.83	Not Detected	3.8	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.83	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.83	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.83	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.83	Not Detected	3.8	Not Detected
Tetrachloroethene	0.83	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.83	Not Detected	7.1	Not Detected
Chlorobenzene	0.83	Not Detected	3.8	Not Detected
m,p-Xylene	1.7	Not Detected	7.2	Not Detected
o-Xylene	0.83	Not Detected	3.6	Not Detected
Styrene	0.83	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-50-H

Lab ID#: 2510650D-46A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103036**	**Date of Collection:**	**10/20/25 10:13:00 A**
Dil. Factor:	**1.66**	**Date of Analysis:**	**10/31/25 11:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.83	Not Detected	8.6	Not Detected
Cumene	0.83	Not Detected	4.1	Not Detected
Propylbenzene	0.83	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.83	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.83	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.83	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.83	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	25	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-50-H

Lab ID#: 2510650D-46B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103036sim**	**Date of Collection: 10/20/25 10:13:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 10/31/25 11:17 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.083	18	0.21	46
Chloroform	0.17	Not Detected	0.81	Not Detected
Benzene	0.33	3.3	1.1	11
1,2-Dichloroethane	0.17	Not Detected	0.67	Not Detected
1,1,2-Trichloroethane	0.083	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.083	Not Detected	0.57	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SGP-DUP-06

Lab ID#: 2510650D-47A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103037**	**Date of Collection:**	**10/20/25 10:13:00 A**
Dil. Factor:	**1.48**	**Date of Analysis:**	**10/31/25 11:45 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.74	Not Detected	3.6	Not Detected
Freon 114	0.74	Not Detected	5.2	Not Detected
Chloromethane	7.4	Not Detected	15	Not Detected
1,3-Butadiene	0.74	Not Detected	1.6	Not Detected
Bromomethane	1.5	Not Detected	5.7	Not Detected
Chloroethane	3.0	Not Detected	7.8	Not Detected
Freon 11	0.74	Not Detected	4.2	Not Detected
Ethanol	7.4	Not Detected	14	Not Detected
Freon 113	0.74	Not Detected	5.7	Not Detected
1,1-Dichloroethene	0.74	Not Detected	2.9	Not Detected
Acetone	7.4	Not Detected	18	Not Detected
2-Propanol	3.0	Not Detected	7.3	Not Detected
Carbon Disulfide	3.0	Not Detected	9.2	Not Detected
3-Chloropropene	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	1.5	Not Detected	5.1	Not Detected
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected
Hexane	0.74	Not Detected	2.6	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	8.7	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
1,1,1-Trichloroethane	0.74	Not Detected	4.0	Not Detected
Cyclohexane	0.74	Not Detected	2.5	Not Detected
Carbon Tetrachloride	0.74	Not Detected	4.6	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.4	Not Detected
Heptane	0.74	Not Detected	3.0	Not Detected
Trichloroethene	0.74	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.74	Not Detected	3.4	Not Detected
1,4-Dioxane	1.5	Not Detected	5.3	Not Detected
Bromodichloromethane	0.74	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.74	Not Detected	3.0	Not Detected
Toluene	1.5	Not Detected	5.6	Not Detected
trans-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.74	Not Detected	6.3	Not Detected
Chlorobenzene	0.74	Not Detected	3.4	Not Detected
m,p-Xylene	1.5	Not Detected	6.4	Not Detected
o-Xylene	0.74	Not Detected	3.2	Not Detected
Styrene	0.74	Not Detected	3.2	Not Detected

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Client Sample ID: SGP-DUP-06

Lab ID#: 2510650D-47A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103037**	**Date of Collection:**	**10/20/25 10:13:00 A**
Dil. Factor:	**1.48**	**Date of Analysis:**	**10/31/25 11:45 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.74	Not Detected	7.6	Not Detected
Cumene	0.74	Not Detected	3.6	Not Detected
Propylbenzene	0.74	Not Detected	3.6	Not Detected
4-Ethyltoluene	0.74	Not Detected	3.6	Not Detected
1,3,5-Trimethylbenzene	0.74	Not Detected	3.6	Not Detected
1,2,4-Trimethylbenzene	0.74	Not Detected	3.6	Not Detected
1,3-Dichlorobenzene	0.74	Not Detected	4.4	Not Detected
1,4-Dichlorobenzene	0.74	Not Detected	4.4	Not Detected
alpha-Chlorotoluene	0.74	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.74	Not Detected	4.4	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-DUP-06

Lab ID#: 2510650D-47B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103037sim**	**Date of Collection: 10/20/25 10:13:00 A**	
Dil. Factor:	**1.48**	**Date of Analysis: 10/31/25 11:45 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.074	Not Detected	0.19	Not Detected
Chloroform	0.15	Not Detected	0.72	Not Detected
Benzene	0.30	Not Detected	0.94	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.074	Not Detected	0.40	Not Detected
1,2-Dibromoethane (EDB)	0.030	Not Detected	0.23	Not Detected
Ethyl Benzene	0.30	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.074	Not Detected	0.51	Not Detected
Naphthalene	0.30	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-50

Lab ID#: 2510650D-48A

EPA METHOD TO-15 GC/MS

File Name:	**14103110**	**Date of Collection:**	**10/20/25 10:23:00 A**
Dil. Factor:	**1.66**	**Date of Analysis:**	**10/31/25 12:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.3	230	41	1100
Freon 114	8.3	100	58	740
Chloromethane	33	74	68	150
Vinyl Chloride	8.3	460	21	1200
1,3-Butadiene	8.3	Not Detected	18	Not Detected
Bromomethane	33	Not Detected	130	Not Detected
Chloroethane	33	100	88	260
Freon 11	8.3	Not Detected	47	Not Detected
Ethanol	42	Not Detected	78	Not Detected
Freon 113	8.3	Not Detected	64	Not Detected
1,1-Dichloroethene	8.3	Not Detected	33	Not Detected
Acetone	33	140	79	330
2-Propanol	42	Not Detected	100	Not Detected
Carbon Disulfide	33	Not Detected	100	Not Detected
3-Chloropropene	33	Not Detected	100	Not Detected
Methylene Chloride	33	Not Detected	120	Not Detected
Methyl tert-butyl ether	8.3	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.3	19	33	74
Hexane	8.3	290	29	1000
1,1-Dichloroethane	8.3	44	34	180
2-Butanone (Methyl Ethyl Ketone)	33	Not Detected	98	Not Detected
cis-1,2-Dichloroethene	8.3	140	33	550
Tetrahydrofuran	8.3	Not Detected	24	Not Detected
Chloroform	8.3	Not Detected	40	Not Detected
1,1,1-Trichloroethane	8.3	Not Detected	45	Not Detected
Cyclohexane	8.3	190	28	660
Carbon Tetrachloride	8.3	Not Detected	52	Not Detected
2,2,4-Trimethylpentane	8.3	180	39	860
Benzene	8.3	72	26	230
1,2-Dichloroethane	8.3	Not Detected	34	Not Detected
Heptane	8.3	260	34	1000
Trichloroethene	8.3	Not Detected	45	Not Detected
1,2-Dichloropropane	8.3	27	38	130
1,4-Dioxane	33	Not Detected	120	Not Detected
Bromodichloromethane	8.3	Not Detected	56	Not Detected
cis-1,3-Dichloropropene	8.3	Not Detected	38	Not Detected
4-Methyl-2-pentanone	33	Not Detected	140	Not Detected
Toluene	8.3	15	31	55
trans-1,3-Dichloropropene	8.3	Not Detected	38	Not Detected
1,1,2-Trichloroethane	8.3	Not Detected	45	Not Detected
Tetrachloroethene	8.3	Not Detected	56	Not Detected
2-Hexanone	33	Not Detected	140	Not Detected

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Client Sample ID: SGP-50

Lab ID#: 2510650D-48A

EPA METHOD TO-15 GC/MS

File Name:	**14103110**	**Date of Collection: 10/20/25 10:23:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 10/31/25 12:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.3	Not Detected	71	Not Detected
1,2-Dibromoethane (EDB)	8.3	Not Detected	64	Not Detected
Chlorobenzene	8.3	Not Detected	38	Not Detected
Ethyl Benzene	8.3	Not Detected	36	Not Detected
m,p-Xylene	8.3	Not Detected	36	Not Detected
o-Xylene	8.3	Not Detected	36	Not Detected
Styrene	8.3	Not Detected	35	Not Detected
Bromoform	8.3	Not Detected	86	Not Detected
Cumene	8.3	9.5	41	47
1,1,2,2-Tetrachloroethane	8.3	Not Detected	57	Not Detected
Propylbenzene	8.3	Not Detected	41	Not Detected
4-Ethyltoluene	8.3	Not Detected	41	Not Detected
1,3,5-Trimethylbenzene	8.3	Not Detected	41	Not Detected
1,2,4-Trimethylbenzene	8.3	Not Detected	41	Not Detected
1,3-Dichlorobenzene	8.3	Not Detected	50	Not Detected
1,4-Dichlorobenzene	8.3	Not Detected	50	Not Detected
alpha-Chlorotoluene	8.3	Not Detected	43	Not Detected
1,2-Dichlorobenzene	8.3	Not Detected	50	Not Detected
1,2,4-Trichlorobenzene	33	Not Detected	250	Not Detected
Hexachlorobutadiene	33	Not Detected	350	Not Detected
Naphthalene	33	Not Detected	170	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650D-49A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103020c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 08:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650D-49A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103020c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 08:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650D-49B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103020simc**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 08:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650D-49C

EPA METHOD TO-15 GC/MS

File Name:	**14103106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	25	Not Detected	47	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	25	Not Detected	61	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	20	Not Detected	82	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650D-49C

EPA METHOD TO-15 GC/MS

File Name:	**14103106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Naphthalene	20	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 2510650D-50A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103017**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:01 PM**

Compound	%Recovery
Freon 12	108
Freon 114	98
Chloromethane	103
1,3-Butadiene	113
Bromomethane	108
Chloroethane	112
Freon 11	98
Ethanol	122
Freon 113	98
1,1-Dichloroethene	105
Acetone	104
2-Propanol	107
Carbon Disulfide	100
3-Chloropropene	112
Methylene Chloride	107
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	104
Hexane	117
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	107
Tetrahydrofuran	112
1,1,1-Trichloroethane	102
Cyclohexane	108
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	111
Heptane	112
Trichloroethene	102
1,2-Dichloropropane	109
1,4-Dioxane	102
Bromodichloromethane	105
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	115
Toluene	105
trans-1,3-Dichloropropene	108
Tetrachloroethene	100
2-Hexanone	116
Dibromochloromethane	102
Chlorobenzene	102
m,p-Xylene	107
o-Xylene	110
Styrene	109

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Client Sample ID: CCV

Lab ID#: 2510650D-50A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103017**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:01 PM**	

Compound	%Recovery
Bromoform	100
Cumene	111
Propylbenzene	105
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 2510650D-50B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103017sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:01 PM**	

Compound	%Recovery
Vinyl Chloride	110
Chloroform	103
Benzene	106
1,2-Dichloroethane	99
1,1,2-Trichloroethane	104
1,2-Dibromoethane (EDB)	100
Ethyl Benzene	105
1,1,2,2-Tetrachloroethane	101
Naphthalene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 2510650D-50C

EPA METHOD TO-15 GC/MS

File Name:	**14103102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 08:56 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	106
Chloromethane	97
Vinyl Chloride	88
1,3-Butadiene	90
Bromomethane	107
Chloroethane	91
Freon 11	104
Ethanol	104
Freon 113	110
1,1-Dichloroethene	93
Acetone	88
2-Propanol	94
Carbon Disulfide	101
3-Chloropropene	105
Methylene Chloride	100
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	101
Hexane	95
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	104
Tetrahydrofuran	94
Chloroform	103
1,1,1-Trichloroethane	104
Cyclohexane	92
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	92
Benzene	95
1,2-Dichloroethane	93
Heptane	89
Trichloroethene	94
1,2-Dichloropropane	91
1,4-Dioxane	96
Bromodichloromethane	98
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	94
Toluene	92
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	97
Tetrachloroethene	103
2-Hexanone	97

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Client Sample ID: CCV

Lab ID#: 2510650D-50C

EPA METHOD TO-15 GC/MS

File Name:	**14103102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 08:56 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	93
Chlorobenzene	99
Ethyl Benzene	90
m,p-Xylene	94
o-Xylene	94
Styrene	98
Bromoform	108
Cumene	94
1,1,2,2-Tetrachloroethane	94
Propylbenzene	94
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	82
Naphthalene	81

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2510650D-51A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103018**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:27 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	99	70-130
Chloromethane	102	70-130
1,3-Butadiene	111	70-130
Bromomethane	111	70-130
Chloroethane	111	70-130
Freon 11	100	70-130
Ethanol	125	70-130
Freon 113	95	70-130
1,1-Dichloroethene	101	70-130
Acetone	102	70-130
2-Propanol	120	70-130
Carbon Disulfide	98	70-130
3-Chloropropene	110	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	106	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	113	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	112	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	100	70-130
2,2,4-Trimethylpentane	110	70-130
Heptane	109	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	115	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	108	70-130
Tetrachloroethene	98	70-130
2-Hexanone	118	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	102	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130
Styrene	108	70-130

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Client Sample ID: LCS

Lab ID#: 2510650D-51A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103018**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:27 PM**	

Compound	%Recovery	Method Limits
Bromoform	98	70-130
Cumene	108	70-130
Propylbenzene	102	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	109	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	120	70-130
Hexachlorobutadiene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650D-51AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103019**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:52 PM**	

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Freon 114	100	70-130
Chloromethane	103	70-130
1,3-Butadiene	114	70-130
Bromomethane	111	70-130
Chloroethane	112	70-130
Freon 11	101	70-130
Ethanol	120	70-130
Freon 113	97	70-130
1,1-Dichloroethene	101	70-130
Acetone	103	70-130
2-Propanol	120	70-130
Carbon Disulfide	100	70-130
3-Chloropropene	113	70-130
Methylene Chloride	105	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	114	70-130
1,1-Dichloroethane	107	70-130
2-Butanone (Methyl Ethyl Ketone)	109	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	114	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	99	70-130
2,2,4-Trimethylpentane	111	70-130
Heptane	109	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	109	70-130
4-Methyl-2-pentanone	116	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	99	70-130
2-Hexanone	118	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	103	70-130
m,p-Xylene	108	70-130
o-Xylene	108	70-130
Styrene	109	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650D-51AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103019**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:52 PM**	

Compound	%Recovery	Method Limits
Bromoform	101	70-130
Cumene	109	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	123	70-130
Hexachlorobutadiene	107	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650D-51B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103018sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:27 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	111	70-130
Chloroform	100	70-130
Benzene	107	70-130
1,2-Dichloroethane	98	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	98	70-130
Ethyl Benzene	107	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Naphthalene	114	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650D-51BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103019sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:52 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	113	70-130
Chloroform	102	70-130
Benzene	108	70-130
1,2-Dichloroethane	99	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	107	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	114	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650D-51C

EPA METHOD TO-15 GC/MS

File Name:	**14103103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:19 AM**	

Compound	%Recovery	Method Limits
Freon 12	113	70-130
Freon 114	113	70-130
Chloromethane	109	70-130
Vinyl Chloride	101	70-130
1,3-Butadiene	94	70-130
Bromomethane	114	70-130
Chloroethane	102	70-130
Freon 11	121	70-130
Ethanol	110	70-130
Freon 113	114	70-130
1,1-Dichloroethene	97	70-130
Acetone	95	70-130
2-Propanol	110	70-130
Carbon Disulfide	110	70-130
3-Chloropropene	115	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	97	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
cis-1,2-Dichloroethene	110	70-130
Tetrahydrofuran	104	70-130
Chloroform	108	70-130
1,1,1-Trichloroethane	112	70-130
Cyclohexane	93	70-130
Carbon Tetrachloride	113	70-130
2,2,4-Trimethylpentane	98	70-130
Benzene	105	70-130
1,2-Dichloroethane	100	70-130
Heptane	96	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	99	70-130
4-Methyl-2-pentanone	102	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	105	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	108	70-130
2-Hexanone	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650D-51C

EPA METHOD TO-15 GC/MS

File Name:	**14103103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:19 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	114	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	109	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	99	70-130
o-Xylene	98	70-130
Styrene	102	70-130
Bromoform	115	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Propylbenzene	95	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	95	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	94	70-130
1,2,4-Trichlorobenzene	92	70-130
Hexachlorobutadiene	92	70-130
Naphthalene	81	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650D-51CC

EPA METHOD TO-15 GC/MS

File Name:	**14103104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:47 AM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	114	70-130
Chloromethane	104	70-130
Vinyl Chloride	94	70-130
1,3-Butadiene	94	70-130
Bromomethane	110	70-130
Chloroethane	98	70-130
Freon 11	116	70-130
Ethanol	107	70-130
Freon 113	110	70-130
1,1-Dichloroethene	94	70-130
Acetone	96	70-130
2-Propanol	108	70-130
Carbon Disulfide	106	70-130
3-Chloropropene	108	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	95	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	98	70-130
Chloroform	103	70-130
1,1,1-Trichloroethane	111	70-130
Cyclohexane	93	70-130
Carbon Tetrachloride	111	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	102	70-130
1,2-Dichloroethane	99	70-130
Heptane	97	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	97	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	98	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	106	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	106	70-130
2-Hexanone	95	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650D-51CC

EPA METHOD TO-15 GC/MS

File Name:	**14103104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:47 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	105	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	100	70-130
o-Xylene	99	70-130
Styrene	101	70-130
Bromoform	114	70-130
Cumene	96	70-130
1,1,2,2-Tetrachloroethane	95	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	95	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	97	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	93	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	91	70-130
Naphthalene	84	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.050
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	1.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	1.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.20
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	1.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.050
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.020

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.20
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.050
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0
91-20-3	Naphthalene	0.20

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analytical Report

11/5/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650E

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650E

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/05/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
49A	SGP-43-H	TO-15	9.6 "Hg	2 psi
49B	SGP-43-H	TO-15	9.6 "Hg	2 psi
50A	SGP-43	TO-15	9.8 "Hg	1.6 psi
50B	SGP-43	TO-15	9.8 "Hg	1.6 psi
51A	SGP-45-H	TO-15	8.8 "Hg	1.8 psi
51B	SGP-45-H	TO-15	8.8 "Hg	1.8 psi
52A	SGP-45	TO-15	9.6 "Hg	1.9 psi
52B	SGP-45	TO-15	9.6 "Hg	1.9 psi
53A	SGP-46-H	TO-15	8.6 "Hg	2 psi
53B	SGP-46-H	TO-15	8.6 "Hg	2 psi
54A	SGP-46	TO-15	8.6 "Hg	1.8 psi
54B	SGP-46	TO-15	8.6 "Hg	1.8 psi
55A	SGP-54-H	TO-15	8.6 "Hg	3.4 psi
55B	SGP-54-H	TO-15	8.6 "Hg	3.4 psi
56A	SGP-DUP-07	TO-15	9.6 "Hg	1.9 psi
56B	SGP-DUP-07	TO-15	9.6 "Hg	1.9 psi
57A	SGP-54	TO-15	8.6 "Hg	1.8 psi
57B	SGP-54	TO-15	8.6 "Hg	1.8 psi
58A	SGP-56-H	TO-15	9.6 "Hg	1.7 psi
58B	SGP-56-H	TO-15	9.6 "Hg	1.7 psi
59A	SGP-56	TO-15	10.4 "Hg	1.8 psi
59B	SGP-56	TO-15	10.4 "Hg	1.8 psi
60A	SGP-58-H	TO-15	8.8 "Hg	1.8 psi

Continued on next page

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WORK ORDER #: 2510650E

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/05/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
60B	SGP-58-H	TO-15	8.8 "Hg	1.8 psi
61A	Lab Blank	TO-15	NA	NA
61B	Lab Blank	TO-15	NA	NA
62A	CCV	TO-15	NA	NA
62B	CCV	TO-15	NA	NA
63A	LCS	TO-15	NA	NA
63AA	LCSD	TO-15	NA	NA
63B	LCS	TO-15	NA	NA
63BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/05/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
EPA Method TO-15 (Hybrid)
S & ME, Inc.
Workorder# 2510650E

Twelve 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-43-H

Lab ID#: 2510650E-49A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	3.0	4.1	15
Freon 114	0.84	9.5	5.8	66
Ethanol	8.4	8.3 J	16	16 J
2-Propanol	3.3	3.4	8.2	8.4

Client Sample ID: SGP-43-H

Lab ID#: 2510650E-49B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	0.23	0.82	1.1

Client Sample ID: SGP-43

Lab ID#: 2510650E-50A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	14	4.1	67
Freon 114	0.82	18	5.8	130

Client Sample ID: SGP-43

Lab ID#: 2510650E-50B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	0.17	0.80	0.84

Client Sample ID: SGP-45-H

Lab ID#: 2510650E-51A

No Detections Were Found.

Client Sample ID: SGP-45-H

Lab ID#: 2510650E-51B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-45-H

Lab ID#: 2510650E-51B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	0.49	0.78	2.4

Client Sample ID: SGP-45

Lab ID#: 2510650E-52A

No Detections Were Found.

Client Sample ID: SGP-45

Lab ID#: 2510650E-52B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	0.66	0.81	3.2

Client Sample ID: SGP-46-H

Lab ID#: 2510650E-53A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.0	9.8	15	18
Acetone	8.0	13	19	30
2-Propanol	3.2	4.6	7.8	11

Client Sample ID: SGP-46-H

Lab ID#: 2510650E-53B

No Detections Were Found.

Client Sample ID: SGP-46

Lab ID#: 2510650E-54A

No Detections Were Found.

Client Sample ID: SGP-46

Lab ID#: 2510650E-54B

No Detections Were Found.

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-54-H

Lab ID#: 2510650E-55A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	0.86	21	6.0	150
2,2,4-Trimethylpentane	0.86	14	4.0	64

Client Sample ID: SGP-54-H

Lab ID#: 2510650E-55B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	4.8	0.84	23

Client Sample ID: SGP-DUP-07

Lab ID#: 2510650E-56A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	0.83	20	5.8	140
2,2,4-Trimethylpentane	0.83	14	3.9	65

Client Sample ID: SGP-DUP-07

Lab ID#: 2510650E-56B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	4.7	0.81	23

Client Sample ID: SGP-54

Lab ID#: 2510650E-57A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	8.3	3.9	41
Freon 114	0.78	24	5.5	160

Client Sample ID: SGP-54

Lab ID#: 2510650E-57B

No Detections Were Found.

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-56-H

Lab ID#: 2510650E-58A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	0.84	4.0	4.2
Freon 114	0.82	2.6	5.7	18
Ethanol	8.2	15	15	29

Client Sample ID: SGP-56-H

Lab ID#: 2510650E-58B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	0.41	0.80	2.0

Client Sample ID: SGP-56

Lab ID#: 2510650E-59A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.6	10	20	25
1,1,1-Trichloroethane	0.86	3.4	4.7	18
Tetrachloroethene	0.86	11	5.8	74

Client Sample ID: SGP-56

Lab ID#: 2510650E-59B

No Detections Were Found.

Client Sample ID: SGP-58-H

Lab ID#: 2510650E-60A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.0	14	15	26
Acetone	8.0	7.9 J	19	19 J
2-Propanol	3.2	3.4	7.8	8.4

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-58-H

Lab ID#: 2510650E-60B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	0.53	0.78	2.6

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Client Sample ID: SGP-43-H

Lab ID#: 2510650E-49A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110411**	**Date of Collection:**	**10/20/25 10:49:00 A**
Dil. Factor:	**1.67**	**Date of Analysis:**	**11/4/25 03:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	3.0	4.1	15
Freon 114	0.84	9.5	5.8	66
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.3	Not Detected	8.8	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
Ethanol	8.4	8.3 J	16	16 J
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	Not Detected	20	Not Detected
2-Propanol	3.3	3.4	8.2	8.4
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.8	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.8	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.1	Not Detected
Chlorobenzene	0.84	Not Detected	3.8	Not Detected
m,p-Xylene	1.7	Not Detected	7.2	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

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Client Sample ID: SGP-43-H

Lab ID#: 2510650E-49A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110411**	**Date of Collection: 10/20/25 10:49:00 A**	
Dil. Factor:	**1.67**	**Date of Analysis: 11/4/25 03:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.6	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	25	Not Detected
Hexachlorobutadiene	3.3	Not Detected	36	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-43-H

Lab ID#: 2510650E-49B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110411sim**	**Date of Collection: 10/20/25 10:49:00 A**	
Dil. Factor:	**1.67**	**Date of Analysis: 11/4/25 03:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	0.23	0.82	1.1
Benzene	0.33	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.57	Not Detected
Naphthalene	0.33	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-43

Lab ID#: 2510650E-50A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110412**	**Date of Collection:**	**10/20/25 10:49:00 A**
Dil. Factor:	**1.65**	**Date of Analysis:**	**11/4/25 04:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	14	4.1	67
Freon 114	0.82	18	5.8	130
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.7	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	Not Detected	16	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Acetone	8.2	Not Detected	20	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	1.6	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.2	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-43

Lab ID#: 2510650E-50A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110412**	**Date of Collection: 10/20/25 10:49:00 A**	
Dil. Factor:	**1.65**	**Date of Analysis: 11/4/25 04:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-43

Lab ID#: 2510650E-50B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110412sim**	**Date of Collection: 10/20/25 10:49:00 A**	
Dil. Factor:	**1.65**	**Date of Analysis: 11/4/25 04:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	0.17	0.80	0.84
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.67	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.57	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-45-H

Lab ID#: 2510650E-51A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110413**	**Date of Collection:**	**10/20/25 11:09:00 A**
Dil. Factor:	**1.59**	**Date of Analysis:**	**11/4/25 04:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	3.9	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.4	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	Not Detected	15	Not Detected
Freon 113	0.80	Not Detected	6.1	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	Not Detected	19	Not Detected
2-Propanol	3.2	Not Detected	7.8	Not Detected
Carbon Disulfide	3.2	Not Detected	9.9	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.4	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.3	Not Detected
Cyclohexane	0.80	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.7	Not Detected
Heptane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.7	Not Detected
Bromodichloromethane	0.80	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	6.0	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.9	Not Detected
o-Xylene	0.80	Not Detected	3.4	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-45-H

Lab ID#: 2510650E-51A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110413**	**Date of Collection: 10/20/25 11:09:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 11/4/25 04:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.2	Not Detected
Cumene	0.80	Not Detected	3.9	Not Detected
Propylbenzene	0.80	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.80	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: SGP-45-H

Lab ID#: 2510650E-51B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110413sim**	**Date of Collection: 10/20/25 11:09:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 11/4/25 04:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	0.49	0.78	2.4
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.54	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	100	70-130

eurofins | Air Toxics

Client Sample ID: SGP-45

Lab ID#: 2510650E-52A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110414**	**Date of Collection:**	**10/20/25 11:26:00 A**
Dil. Factor:	**1.66**	**Date of Analysis:**	**11/4/25 05:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.83	Not Detected	4.1	Not Detected
Freon 114	0.83	Not Detected	5.8	Not Detected
Chloromethane	8.3	Not Detected	17	Not Detected
1,3-Butadiene	0.83	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.8	Not Detected
Freon 11	0.83	Not Detected	4.7	Not Detected
Ethanol	8.3	Not Detected	16	Not Detected
Freon 113	0.83	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.83	Not Detected	3.3	Not Detected
Acetone	8.3	Not Detected	20	Not Detected
2-Propanol	3.3	Not Detected	8.2	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.83	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.83	Not Detected	3.3	Not Detected
Hexane	0.83	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.83	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.8	Not Detected
cis-1,2-Dichloroethene	0.83	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.83	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.83	Not Detected	4.5	Not Detected
Cyclohexane	0.83	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.83	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.83	Not Detected	3.9	Not Detected
Heptane	0.83	Not Detected	3.4	Not Detected
Trichloroethene	0.83	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.83	Not Detected	3.8	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.83	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.83	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.83	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.83	Not Detected	3.8	Not Detected
Tetrachloroethene	0.83	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.83	Not Detected	7.1	Not Detected
Chlorobenzene	0.83	Not Detected	3.8	Not Detected
m,p-Xylene	1.7	Not Detected	7.2	Not Detected
o-Xylene	0.83	Not Detected	3.6	Not Detected
Styrene	0.83	Not Detected	3.5	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-45

Lab ID#: 2510650E-52A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110414**	**Date of Collection: 10/20/25 11:26:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 11/4/25 05:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.83	Not Detected	8.6	Not Detected
Cumene	0.83	Not Detected	4.1	Not Detected
Propylbenzene	0.83	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.83	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.83	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.83	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.83	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	25	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-45

Lab ID#: 2510650E-52B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110414sim**	**Date of Collection: 10/20/25 11:26:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 11/4/25 05:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.083	Not Detected	0.21	Not Detected
Chloroform	0.17	0.66	0.81	3.2
Benzene	0.33	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.67	Not Detected
1,1,2-Trichloroethane	0.083	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.083	Not Detected	0.57	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-46-H

Lab ID#: 2510650E-53A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110415**	**Date of Collection:**	**10/20/25 11:46:00 A**
Dil. Factor:	**1.59**	**Date of Analysis:**	**11/4/25 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	3.9	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.4	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	9.8	15	18
Freon 113	0.80	Not Detected	6.1	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	13	19	30
2-Propanol	3.2	4.6	7.8	11
Carbon Disulfide	3.2	Not Detected	9.9	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.4	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.3	Not Detected
Cyclohexane	0.80	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.7	Not Detected
Heptane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.7	Not Detected
Bromodichloromethane	0.80	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	6.0	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.9	Not Detected
o-Xylene	0.80	Not Detected	3.4	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-46-H

Lab ID#: 2510650E-53A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110415**	**Date of Collection: 10/20/25 11:46:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 11/4/25 05:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.2	Not Detected
Cumene	0.80	Not Detected	3.9	Not Detected
Propylbenzene	0.80	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.80	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SGP-46-H

Lab ID#: 2510650E-53B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110415sim**	**Date of Collection: 10/20/25 11:46:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 11/4/25 05:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.78	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.54	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-46

Lab ID#: 2510650E-54A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110416**	**Date of Collection:**	**10/20/25 11:53:00 A**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/4/25 06:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.9	Not Detected
Freon 114	0.78	Not Detected	5.5	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.1	Not Detected
Chloroethane	3.1	Not Detected	8.3	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	7.8	Not Detected	15	Not Detected
Freon 113	0.78	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	7.8	Not Detected	19	Not Detected
2-Propanol	3.1	Not Detected	7.7	Not Detected
Carbon Disulfide	3.1	Not Detected	9.8	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	1.6	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.2	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.7	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.6	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	5.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.7	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.8	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-46

Lab ID#: 2510650E-54A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110416**	**Date of Collection: 10/20/25 11:53:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/4/25 06:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.78	Not Detected	8.1	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SGP-46

Lab ID#: 2510650E-54B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110416sim**	**Date of Collection:**	**10/20/25 11:53:00 A**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/4/25 06:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.078	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
Benzene	0.31	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.078	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.078	Not Detected	0.54	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-54-H

Lab ID#: 2510650E-55A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110420**	**Date of Collection:**	**10/21/25 10:41:00 A**
Dil. Factor:	**1.73**	**Date of Analysis:**	**11/4/25 10:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	Not Detected	4.3	Not Detected
Freon 114	0.86	21	6.0	150
Chloromethane	8.6	Not Detected	18	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	1.7	Not Detected	6.7	Not Detected
Chloroethane	3.5	Not Detected	9.1	Not Detected
Freon 11	0.86	Not Detected	4.9	Not Detected
Ethanol	8.6	Not Detected	16	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	8.6	Not Detected	20	Not Detected
2-Propanol	3.5	Not Detected	8.5	Not Detected
Carbon Disulfide	3.5	Not Detected	11	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	1.7	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.6	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	14	4.0	64
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	1.7	Not Detected	6.2	Not Detected
Bromodichloromethane	0.86	Not Detected	5.8	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	1.7	Not Detected	6.5	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Tetrachloroethene	0.86	Not Detected	5.9	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Dibromochloromethane	0.86	Not Detected	7.4	Not Detected
Chlorobenzene	0.86	Not Detected	4.0	Not Detected
m,p-Xylene	1.7	Not Detected	7.5	Not Detected
o-Xylene	0.86	Not Detected	3.8	Not Detected
Styrene	0.86	Not Detected	3.7	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-54-H

Lab ID#: 2510650E-55A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110420**	**Date of Collection: 10/21/25 10:41:00 A**	
Dil. Factor:	**1.73**	**Date of Analysis: 11/4/25 10:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.86	Not Detected	8.9	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: SGP-54-H

Lab ID#: 2510650E-55B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110420sim**	**Date of Collection: 10/21/25 10:41:00 A**	
Dil. Factor:	**1.73**	**Date of Analysis: 11/4/25 10:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.086	Not Detected	0.22	Not Detected
Chloroform	0.17	4.8	0.84	23
Benzene	0.35	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
1,1,2-Trichloroethane	0.086	Not Detected	0.47	Not Detected
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.26	Not Detected
Ethyl Benzene	0.35	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.086	Not Detected	0.59	Not Detected
Naphthalene	0.35	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-DUP-07

Lab ID#: 2510650E-56A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110421**	**Date of Collection:**	**10/21/25 10:41:00 A**
Dil. Factor:	**1.66**	**Date of Analysis:**	**11/4/25 11:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.83	Not Detected	4.1	Not Detected
Freon 114	0.83	20	5.8	140
Chloromethane	8.3	Not Detected	17	Not Detected
1,3-Butadiene	0.83	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.8	Not Detected
Freon 11	0.83	Not Detected	4.7	Not Detected
Ethanol	8.3	Not Detected	16	Not Detected
Freon 113	0.83	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.83	Not Detected	3.3	Not Detected
Acetone	8.3	Not Detected	20	Not Detected
2-Propanol	3.3	Not Detected	8.2	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.83	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.83	Not Detected	3.3	Not Detected
Hexane	0.83	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.83	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.8	Not Detected
cis-1,2-Dichloroethene	0.83	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.83	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.83	Not Detected	4.5	Not Detected
Cyclohexane	0.83	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.83	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.83	14	3.9	65
Heptane	0.83	Not Detected	3.4	Not Detected
Trichloroethene	0.83	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.83	Not Detected	3.8	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.83	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.83	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.83	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.83	Not Detected	3.8	Not Detected
Tetrachloroethene	0.83	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.83	Not Detected	7.1	Not Detected
Chlorobenzene	0.83	Not Detected	3.8	Not Detected
m,p-Xylene	1.7	Not Detected	7.2	Not Detected
o-Xylene	0.83	Not Detected	3.6	Not Detected
Styrene	0.83	Not Detected	3.5	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-DUP-07

Lab ID#: 2510650E-56A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110421**	**Date of Collection:**	**10/21/25 10:41:00 A**
Dil. Factor:	**1.66**	**Date of Analysis:**	**11/4/25 11:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.83	Not Detected	8.6	Not Detected
Cumene	0.83	Not Detected	4.1	Not Detected
Propylbenzene	0.83	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.83	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.83	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.83	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.83	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.83	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	25	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-DUP-07

Lab ID#: 2510650E-56B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110421sim**	**Date of Collection: 10/21/25 10:41:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 11/4/25 11:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.083	Not Detected	0.21	Not Detected
Chloroform	0.17	4.7	0.81	23
Benzene	0.33	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.67	Not Detected
1,1,2-Trichloroethane	0.083	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.083	Not Detected	0.57	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-54

Lab ID#: 2510650E-57A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110422**	**Date of Collection:**	**10/21/25 10:56:00 A**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/4/25 11:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	8.3	3.9	41
Freon 114	0.78	24	5.5	160
Chloromethane	7.8	Not Detected	16	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.1	Not Detected
Chloroethane	3.1	Not Detected	8.3	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	7.8	Not Detected	15	Not Detected
Freon 113	0.78	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	7.8	Not Detected	19	Not Detected
2-Propanol	3.1	Not Detected	7.7	Not Detected
Carbon Disulfide	3.1	Not Detected	9.8	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	1.6	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.2	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.7	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.6	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	5.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.7	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.8	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-54

Lab ID#: 2510650E-57A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110422**	**Date of Collection: 10/21/25 10:56:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/4/25 11:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.78	Not Detected	8.1	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-54

Lab ID#: 2510650E-57B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110422sim**	**Date of Collection: 10/21/25 10:56:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/4/25 11:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.078	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
Benzene	0.31	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.078	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.078	Not Detected	0.54	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-56-H

Lab ID#: 2510650E-58A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110423**	**Date of Collection:**	**10/21/25 11:14:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/4/25 11:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	0.84	4.0	4.2
Freon 114	0.82	2.6	5.7	18
Chloromethane	8.2	Not Detected	17	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.4	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	8.2	15	15	29
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	1.6	Not Detected	6.2	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
m,p-Xylene	1.6	Not Detected	7.1	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected

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Client Sample ID: SGP-56-H

Lab ID#: 2510650E-58A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110423**	**Date of Collection: 10/21/25 11:14:00 A**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/4/25 11:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-56-H

Lab ID#: 2510650E-58B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110423sim**	**Date of Collection: 10/21/25 11:14:00 A**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/4/25 11:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
Chloroform	0.16	0.41	0.80	2.0
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.082	Not Detected	0.45	Not Detected
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.082	Not Detected	0.56	Not Detected
Naphthalene	0.33	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-56

Lab ID#: 2510650E-59A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110424**	**Date of Collection:**	**10/21/25 11:24:00 A**
Dil. Factor:	**1.72**	**Date of Analysis:**	**11/5/25 12:24 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Chloromethane	8.6	Not Detected	18	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	1.7	Not Detected	6.7	Not Detected
Chloroethane	3.4	Not Detected	9.1	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
Ethanol	8.6	Not Detected	16	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	8.6	10	20	25
2-Propanol	3.4	Not Detected	8.4	Not Detected
Carbon Disulfide	3.4	Not Detected	11	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	1.7	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.86	3.4	4.7	18
Cyclohexane	0.86	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	1.7	Not Detected	6.2	Not Detected
Bromodichloromethane	0.86	Not Detected	5.8	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	1.7	Not Detected	6.5	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Tetrachloroethene	0.86	11	5.8	74
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Chlorobenzene	0.86	Not Detected	4.0	Not Detected
m,p-Xylene	1.7	Not Detected	7.5	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.7	Not Detected

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Client Sample ID: SGP-56

Lab ID#: 2510650E-59A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110424**	**Date of Collection:**	**10/21/25 11:24:00 A**
Dil. Factor:	**1.72**	**Date of Analysis:**	**11/5/25 12:24 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.86	Not Detected	8.9	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	26	Not Detected
Hexachlorobutadiene	3.4	Not Detected	37	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-56

Lab ID#: 2510650E-59B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110424sim**	**Date of Collection: 10/21/25 11:24:00 A**	
Dil. Factor:	**1.72**	**Date of Analysis: 11/5/25 12:24 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.086	Not Detected	0.22	Not Detected
Chloroform	0.17	Not Detected	0.84	Not Detected
Benzene	0.34	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
1,1,2-Trichloroethane	0.086	Not Detected	0.47	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.34	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.086	Not Detected	0.59	Not Detected
Naphthalene	0.34	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-58-H

Lab ID#: 2510650E-60A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110425**	**Date of Collection:**	**10/21/25 11:47:00 A**
Dil. Factor:	**1.59**	**Date of Analysis:**	**11/5/25 12:53 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	3.9	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.4	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	14	15	26
Freon 113	0.80	Not Detected	6.1	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	7.9 J	19	19 J
2-Propanol	3.2	3.4	7.8	8.4
Carbon Disulfide	3.2	Not Detected	9.9	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.4	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.3	Not Detected
Cyclohexane	0.80	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.7	Not Detected
Heptane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.7	Not Detected
Bromodichloromethane	0.80	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	6.0	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.9	Not Detected
o-Xylene	0.80	Not Detected	3.4	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-58-H

Lab ID#: 2510650E-60A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110425**	**Date of Collection: 10/21/25 11:47:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 11/5/25 12:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.2	Not Detected
Cumene	0.80	Not Detected	3.9	Not Detected
Propylbenzene	0.80	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.80	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-58-H

Lab ID#: 2510650E-60B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110425sim**	**Date of Collection: 10/21/25 11:47:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 11/5/25 12:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	0.53	0.78	2.6
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.43	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.54	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650E-61A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:55 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650E-61A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:55 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650E-61B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110405sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:55 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 2510650E-62A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 09:35 AM**

Compound	%Recovery
Freon 12	98
Freon 114	99
Chloromethane	89
1,3-Butadiene	92
Bromomethane	101
Chloroethane	97
Freon 11	98
Ethanol	81
Freon 113	101
1,1-Dichloroethene	103
Acetone	88
2-Propanol	84
Carbon Disulfide	95
3-Chloropropene	102
Methylene Chloride	94
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	99
Hexane	106
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	109
Tetrahydrofuran	94
1,1,1-Trichloroethane	100
Cyclohexane	105
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	100
Heptane	107
Trichloroethene	98
1,2-Dichloropropane	95
1,4-Dioxane	95
Bromodichloromethane	95
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	104
Toluene	100
trans-1,3-Dichloropropene	100
Tetrachloroethene	99
2-Hexanone	99
Dibromochloromethane	98
Chlorobenzene	96
m,p-Xylene	106
o-Xylene	108
Styrene	111

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Client Sample ID: CCV

Lab ID#: 2510650E-62A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 09:35 AM**	

Compound	%Recovery
Bromoform	101
Cumene	110
Propylbenzene	107
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: CCV

Lab ID#: 2510650E-62B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110402sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 09:35 AM**	

Compound	%Recovery
Vinyl Chloride	83
Chloroform	95
Benzene	96
1,2-Dichloroethane	93
1,1,2-Trichloroethane	94
1,2-Dibromoethane (EDB)	94
Ethyl Benzene	107
1,1,2,2-Tetrachloroethane	94
Naphthalene	113

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS

Lab ID#: 2510650E-63A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:01 AM**	

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	101	70-130
Chloromethane	92	70-130
1,3-Butadiene	92	70-130
Bromomethane	107	70-130
Chloroethane	97	70-130
Freon 11	100	70-130
Ethanol	88	70-130
Freon 113	100	70-130
1,1-Dichloroethene	97	70-130
Acetone	88	70-130
2-Propanol	101	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	104	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	103	70-130
trans-1,2-Dichloroethene	102	70-130
Hexane	104	70-130
1,1-Dichloroethane	97	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	94	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	108	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	99	70-130
Heptane	105	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	92	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	104	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	101	70-130
Tetrachloroethene	102	70-130
2-Hexanone	105	70-130
Dibromochloromethane	100	70-130
Chlorobenzene	100	70-130
m,p-Xylene	110	70-130
o-Xylene	110	70-130
Styrene	114	70-130

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Client Sample ID: LCS

Lab ID#: 2510650E-63A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:01 AM**	

Compound	%Recovery	Method Limits
Bromoform	102	70-130
Cumene	111	70-130
Propylbenzene	107	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	112	70-130
1,2,4-Trimethylbenzene	114	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	107	70-130
1,2,4-Trichlorobenzene	120	70-130
Hexachlorobutadiene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650E-63AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:26 AM**	

Compound	%Recovery	Method Limits
Freon 12	99	70-130
Freon 114	102	70-130
Chloromethane	90	70-130
1,3-Butadiene	92	70-130
Bromomethane	105	70-130
Chloroethane	98	70-130
Freon 11	99	70-130
Ethanol	86	70-130
Freon 113	100	70-130
1,1-Dichloroethene	96	70-130
Acetone	88	70-130
2-Propanol	102	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	105	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	103	70-130
trans-1,2-Dichloroethene	101	70-130
Hexane	103	70-130
1,1-Dichloroethane	96	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	96	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	108	70-130
Carbon Tetrachloride	101	70-130
2,2,4-Trimethylpentane	101	70-130
Heptane	104	70-130
Trichloroethene	95	70-130
1,2-Dichloropropane	92	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	96	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	100	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	101	70-130
Tetrachloroethene	100	70-130
2-Hexanone	104	70-130
Dibromochloromethane	99	70-130
Chlorobenzene	98	70-130
m,p-Xylene	107	70-130
o-Xylene	110	70-130
Styrene	111	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650E-63AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:26 AM**	

Compound	%Recovery	Method Limits
Bromoform	101	70-130
Cumene	110	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	110	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	114	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	107	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	134 Q	70-130
Hexachlorobutadiene	119	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 2510650E-63B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110403sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:01 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	87	70-130
Chloroform	94	70-130
Benzene	97	70-130
1,2-Dichloroethane	91	70-130
1,1,2-Trichloroethane	96	70-130
1,2-Dibromoethane (EDB)	95	70-130
Ethyl Benzene	111	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Naphthalene	116	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650E-63BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17110404sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/25 10:26 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	86	70-130
Chloroform	93	70-130
Benzene	98	70-130
1,2-Dichloroethane	91	70-130
1,1,2-Trichloroethane	94	70-130
1,2-Dibromoethane (EDB)	94	70-130
Ethyl Benzene	109	70-130
1,1,2,2-Tetrachloroethane	92	70-130
Naphthalene	128	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	105	70-130

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.050
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	1.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	1.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.20
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	1.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.050
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.020

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.20
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.050
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0
91-20-3	Naphthalene	0.20

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analytical Report

11/3/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650F

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650F

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/03/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
61A	SGP-58	TO-15	11 "Hg	1.8 psi
61B	SGP-58	TO-15	11 "Hg	1.8 psi
62A	SGP-47-H	TO-15	10.4 "Hg	3 psi
62B	SGP-47-H	TO-15	10.4 "Hg	3 psi
63A	SGP-DUP-08	TO-15	9.8 "Hg	1.9 psi
63B	SGP-DUP-08	TO-15	9.8 "Hg	1.9 psi
64A	SGP-47	TO-15	10.8 "Hg	1.7 psi
64B	SGP-47	TO-15	10.8 "Hg	1.7 psi
65A	SGP-57-H	TO-15	8 "Hg	2 psi
65B	SGP-57-H	TO-15	8 "Hg	2 psi
66A	SGP-57	TO-15	8.8 "Hg	1.9 psi
66B	SGP-57	TO-15	8.8 "Hg	1.9 psi
67A	SGP-48-H	TO-15	9 "Hg	1.9 psi
67B	SGP-48-H	TO-15	9 "Hg	1.9 psi
68A	SGP-48	TO-15	9 "Hg	2 psi
68B	SGP-48	TO-15	9 "Hg	2 psi
69A	Lab Blank	TO-15	NA	NA
69B	Lab Blank	TO-15	NA	NA
69C	Lab Blank	TO-15	NA	NA
69D	Lab Blank	TO-15	NA	NA
70A	CCV	TO-15	NA	NA
70B	CCV	TO-15	NA	NA
70C	CCV	TO-15	NA	NA

Continued on next page

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WORK ORDER #: 2510650F

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/03/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
70D	CCV	TO-15	NA	NA
71A	LCS	TO-15	NA	NA
71AA	LCSD	TO-15	NA	NA
71B	LCS	TO-15	NA	NA
71BB	LCSD	TO-15	NA	NA
71C	LCS	TO-15	NA	NA
71CC	LCSD	TO-15	NA	NA
71D	LCS	TO-15	NA	NA
71DD	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/03/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
EPA Method TO-15 (Hybrid)
S & ME, Inc.
Workorder# 2510650F

Eight 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-58

Lab ID#: 2510650F-61A

No Detections Were Found.

Client Sample ID: SGP-58

Lab ID#: 2510650F-61B

No Detections Were Found.

Client Sample ID: SGP-47-H

Lab ID#: 2510650F-62A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	9.2	10	17	20
Acetone	9.2	12	22	29

Client Sample ID: SGP-47-H

Lab ID#: 2510650F-62B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.18	1.8	0.90	8.8

Client Sample ID: SGP-DUP-08

Lab ID#: 2510650F-63A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.4	12	16	22
Acetone	8.4	9.4	20	22

Client Sample ID: SGP-DUP-08

Lab ID#: 2510650F-63B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	1.8	0.82	8.9

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-47

Lab ID#: 2510650F-64A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.7	9.4	21	22

Client Sample ID: SGP-47

Lab ID#: 2510650F-64B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.17	0.63	0.85	3.0

Client Sample ID: SGP-57-H

Lab ID#: 2510650F-65A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.8	8.3	15	16
Acetone	7.8	9.0	18	21

Client Sample ID: SGP-57-H

Lab ID#: 2510650F-65B

No Detections Were Found.

Client Sample ID: SGP-57

Lab ID#: 2510650F-66A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.0	26	15	49
Acetone	8.0	15	19	36
2-Propanol	3.2	4.8	7.9	12

Client Sample ID: SGP-57

Lab ID#: 2510650F-66B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	1.5	0.78	7.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SGP-48-H

Lab ID#: 2510650F-67A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.0	8.8	15	16
Acetone	8.0	15	19	35

Client Sample ID: SGP-48-H

Lab ID#: 2510650F-67B

No Detections Were Found.

Client Sample ID: SGP-48

Lab ID#: 2510650F-68A

No Detections Were Found.

Client Sample ID: SGP-48

Lab ID#: 2510650F-68B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.16	0.29	0.79	1.4

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Client Sample ID: SGP-58

Lab ID#: 2510650F-61A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103038**	**Date of Collection:**	**10/21/25 11:55:00 A**
Dil. Factor:	**1.77**	**Date of Analysis:**	**10/31/25 12:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.88	Not Detected	4.4	Not Detected
Freon 114	0.88	Not Detected	6.2	Not Detected
Chloromethane	8.8	Not Detected	18	Not Detected
1,3-Butadiene	0.88	Not Detected	2.0	Not Detected
Bromomethane	1.8	Not Detected	6.9	Not Detected
Chloroethane	3.5	Not Detected	9.3	Not Detected
Freon 11	0.88	Not Detected	5.0	Not Detected
Ethanol	8.8	Not Detected	17	Not Detected
Freon 113	0.88	Not Detected	6.8	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Acetone	8.8	Not Detected	21	Not Detected
2-Propanol	3.5	Not Detected	8.7	Not Detected
Carbon Disulfide	3.5	Not Detected	11	Not Detected
3-Chloropropene	0.88	Not Detected	2.8	Not Detected
Methylene Chloride	1.8	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	13	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.6	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Heptane	0.88	Not Detected	3.6	Not Detected
Trichloroethene	0.88	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.1	Not Detected
1,4-Dioxane	1.8	Not Detected	6.4	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
Toluene	1.8	Not Detected	6.7	Not Detected
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
Tetrachloroethene	0.88	Not Detected	6.0	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Dibromochloromethane	0.88	Not Detected	7.5	Not Detected
Chlorobenzene	0.88	Not Detected	4.1	Not Detected
m,p-Xylene	1.8	Not Detected	7.7	Not Detected
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.8	Not Detected

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Client Sample ID: SGP-58

Lab ID#: 2510650F-61A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103038**	**Date of Collection:**	**10/21/25 11:55:00 A**
Dil. Factor:	**1.77**	**Date of Analysis:**	**10/31/25 12:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.88	Not Detected	9.1	Not Detected
Cumene	0.88	Not Detected	4.4	Not Detected
Propylbenzene	0.88	Not Detected	4.4	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.4	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.4	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.4	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	38	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-58

Lab ID#: 2510650F-61B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103038sim**	**Date of Collection: 10/21/25 11:55:00 A**	
Dil. Factor:	**1.77**	**Date of Analysis: 10/31/25 12:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.088	Not Detected	0.23	Not Detected
Chloroform	0.18	Not Detected	0.86	Not Detected
Benzene	0.35	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.72	Not Detected
1,1,2-Trichloroethane	0.088	Not Detected	0.48	Not Detected
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.35	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.088	Not Detected	0.61	Not Detected
Naphthalene	0.35	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SGP-47-H

Lab ID#: 2510650F-62A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103040**	**Date of Collection:**	**10/22/25 10:54:00 A**
Dil. Factor:	**1.84**	**Date of Analysis:**	**10/31/25 01:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.92	Not Detected	4.5	Not Detected
Freon 114	0.92	Not Detected	6.4	Not Detected
Chloromethane	9.2	Not Detected	19	Not Detected
1,3-Butadiene	0.92	Not Detected	2.0	Not Detected
Bromomethane	1.8	Not Detected	7.1	Not Detected
Chloroethane	3.7	Not Detected	9.7	Not Detected
Freon 11	0.92	Not Detected	5.2	Not Detected
Ethanol	9.2	10	17	20
Freon 113	0.92	Not Detected	7.0	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Acetone	9.2	12	22	29
2-Propanol	3.7	Not Detected	9.0	Not Detected
Carbon Disulfide	3.7	Not Detected	11	Not Detected
3-Chloropropene	0.92	Not Detected	2.9	Not Detected
Methylene Chloride	1.8	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	3.7	Not Detected	13	Not Detected
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Hexane	0.92	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.7	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Tetrahydrofuran	0.92	Not Detected	2.7	Not Detected
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Cyclohexane	0.92	Not Detected	3.2	Not Detected
Carbon Tetrachloride	0.92	Not Detected	5.8	Not Detected
2,2,4-Trimethylpentane	0.92	Not Detected	4.3	Not Detected
Heptane	0.92	Not Detected	3.8	Not Detected
Trichloroethene	0.92	Not Detected	4.9	Not Detected
1,2-Dichloropropane	0.92	Not Detected	4.2	Not Detected
1,4-Dioxane	1.8	Not Detected	6.6	Not Detected
Bromodichloromethane	0.92	Not Detected	6.2	Not Detected
cis-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
4-Methyl-2-pentanone	0.92	Not Detected	3.8	Not Detected
Toluene	1.8	Not Detected	6.9	Not Detected
trans-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Dibromochloromethane	0.92	Not Detected	7.8	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
m,p-Xylene	1.8	Not Detected	8.0	Not Detected
o-Xylene	0.92	Not Detected	4.0	Not Detected
Styrene	0.92	Not Detected	3.9	Not Detected

eurofins | Air Toxics

Client Sample ID: SGP-47-H

Lab ID#: 2510650F-62A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103040**	**Date of Collection:**	**10/22/25 10:54:00 A**
Dil. Factor:	**1.84**	**Date of Analysis:**	**10/31/25 01:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.92	Not Detected	9.5	Not Detected
Cumene	0.92	Not Detected	4.5	Not Detected
Propylbenzene	0.92	Not Detected	4.5	Not Detected
4-Ethyltoluene	0.92	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,3-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
alpha-Chlorotoluene	0.92	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	27	Not Detected
Hexachlorobutadiene	3.7	Not Detected	39	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-47-H

Lab ID#: 2510650F-62B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103040sim**	**Date of Collection: 10/22/25 10:54:00 A**	
Dil. Factor:	**1.84**	**Date of Analysis: 10/31/25 01:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.092	Not Detected	0.24	Not Detected
Chloroform	0.18	1.8	0.90	8.8
Benzene	0.37	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.092	Not Detected	0.50	Not Detected
1,2-Dibromoethane (EDB)	0.037	Not Detected	0.28	Not Detected
Ethyl Benzene	0.37	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.092	Not Detected	0.63	Not Detected
Naphthalene	0.37	Not Detected	1.9	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-DUP-08

Lab ID#: 2510650F-63A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103041**	**Date of Collection:**	**10/22/25 10:54:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**10/31/25 01:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Chloromethane	8.4	Not Detected	17	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
Ethanol	8.4	12	16	22
Freon 113	0.84	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Acetone	8.4	9.4	20	22
2-Propanol	3.4	Not Detected	8.2	Not Detected
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	1.7	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	9.9	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
1,4-Dioxane	1.7	Not Detected	6.0	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected

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Client Sample ID: SGP-DUP-08

Lab ID#: 2510650F-63A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103041**	**Date of Collection:**	**10/22/25 10:54:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**10/31/25 01:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.84	Not Detected	8.7	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SGP-DUP-08

Lab ID#: 2510650F-63B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103041sim**	**Date of Collection: 10/22/25 10:54:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 10/31/25 01:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.084	Not Detected	0.21	Not Detected
Chloroform	0.17	1.8	0.82	8.9
Benzene	0.34	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.084	Not Detected	0.46	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.34	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.084	Not Detected	0.58	Not Detected
Naphthalene	0.34	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-47

Lab ID#: 2510650F-64A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103039**	**Date of Collection:**	**10/22/25 11:12:00 A**
Dil. Factor:	**1.74**	**Date of Analysis:**	**10/31/25 12:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.87	Not Detected	4.3	Not Detected
Freon 114	0.87	Not Detected	6.1	Not Detected
Chloromethane	8.7	Not Detected	18	Not Detected
1,3-Butadiene	0.87	Not Detected	1.9	Not Detected
Bromomethane	1.7	Not Detected	6.8	Not Detected
Chloroethane	3.5	Not Detected	9.2	Not Detected
Freon 11	0.87	Not Detected	4.9	Not Detected
Ethanol	8.7	Not Detected	16	Not Detected
Freon 113	0.87	Not Detected	6.7	Not Detected
1,1-Dichloroethene	0.87	Not Detected	3.4	Not Detected
Acetone	8.7	9.4	21	22
2-Propanol	3.5	Not Detected	8.6	Not Detected
Carbon Disulfide	3.5	Not Detected	11	Not Detected
3-Chloropropene	0.87	Not Detected	2.7	Not Detected
Methylene Chloride	1.7	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.87	Not Detected	3.4	Not Detected
Hexane	0.87	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.87	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.87	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.87	Not Detected	2.6	Not Detected
1,1,1-Trichloroethane	0.87	Not Detected	4.7	Not Detected
Cyclohexane	0.87	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.87	Not Detected	5.5	Not Detected
2,2,4-Trimethylpentane	0.87	Not Detected	4.1	Not Detected
Heptane	0.87	Not Detected	3.6	Not Detected
Trichloroethene	0.87	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.87	Not Detected	4.0	Not Detected
1,4-Dioxane	1.7	Not Detected	6.3	Not Detected
Bromodichloromethane	0.87	Not Detected	5.8	Not Detected
cis-1,3-Dichloropropene	0.87	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.87	Not Detected	3.6	Not Detected
Toluene	1.7	Not Detected	6.6	Not Detected
trans-1,3-Dichloropropene	0.87	Not Detected	3.9	Not Detected
Tetrachloroethene	0.87	Not Detected	5.9	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Dibromochloromethane	0.87	Not Detected	7.4	Not Detected
Chlorobenzene	0.87	Not Detected	4.0	Not Detected
m,p-Xylene	1.7	Not Detected	7.6	Not Detected
o-Xylene	0.87	Not Detected	3.8	Not Detected
Styrene	0.87	Not Detected	3.7	Not Detected

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Client Sample ID: SGP-47

Lab ID#: 2510650F-64A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103039**	**Date of Collection:**	**10/22/25 11:12:00 A**
Dil. Factor:	**1.74**	**Date of Analysis:**	**10/31/25 12:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.87	Not Detected	9.0	Not Detected
Cumene	0.87	Not Detected	4.3	Not Detected
Propylbenzene	0.87	Not Detected	4.3	Not Detected
4-Ethyltoluene	0.87	Not Detected	4.3	Not Detected
1,3,5-Trimethylbenzene	0.87	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.87	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.87	Not Detected	5.2	Not Detected
1,4-Dichlorobenzene	0.87	Not Detected	5.2	Not Detected
alpha-Chlorotoluene	0.87	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.87	Not Detected	5.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	100	70-130

eurofins | Air Toxics

Client Sample ID: SGP-47

Lab ID#: 2510650F-64B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103039sim**	**Date of Collection: 10/22/25 11:12:00 A**	
Dil. Factor:	**1.74**	**Date of Analysis: 10/31/25 12:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.087	Not Detected	0.22	Not Detected
Chloroform	0.17	0.63	0.85	3.0
Benzene	0.35	Not Detected	1.1	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
1,1,2-Trichloroethane	0.087	Not Detected	0.47	Not Detected
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.35	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.087	Not Detected	0.60	Not Detected
Naphthalene	0.35	Not Detected	1.8	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-57-H

Lab ID#: 2510650F-65A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103120**	**Date of Collection:**	**10/22/25 11:27:00 A**
Dil. Factor:	**1.55**	**Date of Analysis:**	**11/1/25 11:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.78	Not Detected	3.8	Not Detected
Freon 114	0.78	Not Detected	5.4	Not Detected
Chloromethane	7.8	Not Detected	16	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	1.6	Not Detected	6.0	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	7.8	8.3	15	16
Freon 113	0.78	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	7.8	9.0	18	21
2-Propanol	3.1	Not Detected	7.6	Not Detected
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	1.6	Not Detected	5.4	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	9.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	1.6	Not Detected	5.6	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
Toluene	1.6	Not Detected	5.8	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
m,p-Xylene	1.6	Not Detected	6.7	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected

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Client Sample ID: SGP-57-H

Lab ID#: 2510650F-65A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103120**	**Date of Collection:**	**10/22/25 11:27:00 A**
Dil. Factor:	**1.55**	**Date of Analysis:**	**11/1/25 11:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.78	Not Detected	8.0	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-57-H

Lab ID#: 2510650F-65B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103120sim**	**Date of Collection: 10/22/25 11:27:00 A**	
Dil. Factor:	**1.55**	**Date of Analysis: 11/1/25 11:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.078	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.76	Not Detected
Benzene	0.31	Not Detected	0.99	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.078	Not Detected	0.42	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.31	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.078	Not Detected	0.53	Not Detected
Naphthalene	0.31	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-57

Lab ID#: 2510650F-66A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103121**	**Date of Collection:**	**10/22/25 11:38:00 A**
Dil. Factor:	**1.60**	**Date of Analysis:**	**11/1/25 11:58 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.4	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	26	15	49
Freon 113	0.80	Not Detected	6.1	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	15	19	36
2-Propanol	3.2	4.8	7.9	12
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.4	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.7	Not Detected
Heptane	0.80	Not Detected	3.3	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.0	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	6.9	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-57

Lab ID#: 2510650F-66A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103121**	**Date of Collection:**	**10/22/25 11:38:00 A**
Dil. Factor:	**1.60**	**Date of Analysis:**	**11/1/25 11:58 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.3	Not Detected
Cumene	0.80	Not Detected	3.9	Not Detected
Propylbenzene	0.80	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.80	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SGP-57

Lab ID#: 2510650F-66B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103121sim**	**Date of Collection: 10/22/25 11:38:00 A**	
Dil. Factor:	**1.60**	**Date of Analysis: 11/1/25 11:58 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	1.5	0.78	7.2
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SGP-48-H

Lab ID#: 2510650F-67A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103113**	**Date of Collection:**	**10/22/25 11:59:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**11/1/25 08:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	17	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.2	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	8.0	8.8	15	16
Freon 113	0.80	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	15	19	35
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.5	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.80	Not Detected	3.3	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-48-H

Lab ID#: 2510650F-67A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103113**	**Date of Collection:**	**10/22/25 11:59:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**11/1/25 08:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.80	Not Detected	8.3	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SGP-48-H

Lab ID#: 2510650F-67B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103113sim**	**Date of Collection: 10/22/25 11:59:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/1/25 08:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.080	Not Detected	0.20	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SGP-48

Lab ID#: 2510650F-68A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103114**	**Date of Collection:**	**10/22/25 12:27:00 P**
Dil. Factor:	**1.62**	**Date of Analysis:**	**11/1/25 08:42 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.81	Not Detected	4.0	Not Detected
Freon 114	0.81	Not Detected	5.7	Not Detected
Chloromethane	8.1	Not Detected	17	Not Detected
1,3-Butadiene	0.81	Not Detected	1.8	Not Detected
Bromomethane	1.6	Not Detected	6.3	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.81	Not Detected	4.6	Not Detected
Ethanol	8.1	Not Detected	15	Not Detected
Freon 113	0.81	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Acetone	8.1	Not Detected	19	Not Detected
2-Propanol	3.2	Not Detected	8.0	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	0.81	Not Detected	2.5	Not Detected
Methylene Chloride	1.6	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	3.2	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Hexane	0.81	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.81	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.6	Not Detected
cis-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.81	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.81	Not Detected	4.4	Not Detected
Cyclohexane	0.81	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.81	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.81	Not Detected	3.8	Not Detected
Heptane	0.81	Not Detected	3.3	Not Detected
Trichloroethene	0.81	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.81	Not Detected	3.7	Not Detected
1,4-Dioxane	1.6	Not Detected	5.8	Not Detected
Bromodichloromethane	0.81	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.81	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.81	Not Detected	3.3	Not Detected
Toluene	1.6	Not Detected	6.1	Not Detected
trans-1,3-Dichloropropene	0.81	Not Detected	3.7	Not Detected
Tetrachloroethene	0.81	Not Detected	5.5	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.81	Not Detected	6.9	Not Detected
Chlorobenzene	0.81	Not Detected	3.7	Not Detected
m,p-Xylene	1.6	Not Detected	7.0	Not Detected
o-Xylene	0.81	Not Detected	3.5	Not Detected
Styrene	0.81	Not Detected	3.4	Not Detected

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Client Sample ID: SGP-48

Lab ID#: 2510650F-68A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103114**	**Date of Collection:**	**10/22/25 12:27:00 P**
Dil. Factor:	**1.62**	**Date of Analysis:**	**11/1/25 08:42 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.81	Not Detected	8.4	Not Detected
Cumene	0.81	Not Detected	4.0	Not Detected
Propylbenzene	0.81	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.81	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.81	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.81	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.81	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.81	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: SGP-48

Lab ID#: 2510650F-68B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103114sim**	**Date of Collection:**	**10/22/25 12:27:00 P**
Dil. Factor:	**1.62**	**Date of Analysis:**	**11/1/25 08:42 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.081	Not Detected	0.21	Not Detected
Chloroform	0.16	0.29	0.79	1.4
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.081	Not Detected	0.44	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.081	Not Detected	0.56	Not Detected
Naphthalene	0.32	Not Detected	1.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650F-69A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103020c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 08:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650F-69A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103020c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 08:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650F-69B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103020simc**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 08:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650F-69C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	1.0	Not Detected	3.6	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2510650F-69C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2510650F-69D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103110sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 11:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.050	Not Detected	0.13	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Benzene	0.20	Not Detected	0.64	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,1,2-Trichloroethane	0.050	Not Detected	0.27	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.20	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.050	Not Detected	0.34	Not Detected
Naphthalene	0.20	Not Detected	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: CCV

Lab ID#: 2510650F-70A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103017**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:01 PM**

Compound	%Recovery
Freon 12	108
Freon 114	98
Chloromethane	103
1,3-Butadiene	113
Bromomethane	108
Chloroethane	112
Freon 11	98
Ethanol	122
Freon 113	98
1,1-Dichloroethene	105
Acetone	104
2-Propanol	107
Carbon Disulfide	100
3-Chloropropene	112
Methylene Chloride	107
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	104
Hexane	117
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	107
Tetrahydrofuran	112
1,1,1-Trichloroethane	102
Cyclohexane	108
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	111
Heptane	112
Trichloroethene	102
1,2-Dichloropropane	109
1,4-Dioxane	102
Bromodichloromethane	105
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	115
Toluene	105
trans-1,3-Dichloropropene	108
Tetrachloroethene	100
2-Hexanone	116
Dibromochloromethane	102
Chlorobenzene	102
m,p-Xylene	107
o-Xylene	110
Styrene	109

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Client Sample ID: CCV

Lab ID#: 2510650F-70A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103017**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:01 PM**	

Compound	%Recovery
Bromoform	100
Cumene	111
Propylbenzene	105
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 2510650F-70B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103017sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:01 PM**	

Compound	%Recovery
Vinyl Chloride	110
Chloroform	103
Benzene	106
1,2-Dichloroethane	99
1,1,2-Trichloroethane	104
1,2-Dibromoethane (EDB)	100
Ethyl Benzene	105
1,1,2,2-Tetrachloroethane	101
Naphthalene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 2510650F-70C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**

Compound	%Recovery
Freon 12	111
Freon 114	101
Chloromethane	106
1,3-Butadiene	116
Bromomethane	110
Chloroethane	115
Freon 11	102
Ethanol	107
Freon 113	98
1,1-Dichloroethene	105
Acetone	109
2-Propanol	111
Carbon Disulfide	104
3-Chloropropene	112
Methylene Chloride	112
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	107
Hexane	120
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	109
Tetrahydrofuran	116
1,1,1-Trichloroethane	104
Cyclohexane	111
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	116
Heptane	112
Trichloroethene	102
1,2-Dichloropropane	110
1,4-Dioxane	102
Bromodichloromethane	106
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	116
Toluene	105
trans-1,3-Dichloropropene	110
Tetrachloroethene	99
2-Hexanone	118
Dibromochloromethane	102
Chlorobenzene	103
m,p-Xylene	108
o-Xylene	109
Styrene	109

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Client Sample ID: CCV

Lab ID#: 2510650F-70C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**	

Compound	%Recovery
Bromoform	102
Cumene	111
Propylbenzene	106
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: CCV

Lab ID#: 2510650F-70D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103107sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 09:44 PM**	

Compound	%Recovery
Vinyl Chloride	113
Chloroform	105
Benzene	108
1,2-Dichloroethane	101
1,1,2-Trichloroethane	106
1,2-Dibromoethane (EDB)	100
Ethyl Benzene	106
1,1,2,2-Tetrachloroethane	103
Naphthalene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCS

Lab ID#: 2510650F-71A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103018**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:27 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	99	70-130
Chloromethane	102	70-130
1,3-Butadiene	111	70-130
Bromomethane	111	70-130
Chloroethane	111	70-130
Freon 11	100	70-130
Ethanol	125	70-130
Freon 113	95	70-130
1,1-Dichloroethene	101	70-130
Acetone	102	70-130
2-Propanol	120	70-130
Carbon Disulfide	98	70-130
3-Chloropropene	110	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	106	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	113	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	112	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	100	70-130
2,2,4-Trimethylpentane	110	70-130
Heptane	109	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	115	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	108	70-130
Tetrachloroethene	98	70-130
2-Hexanone	118	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	102	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130
Styrene	108	70-130

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Client Sample ID: LCS

Lab ID#: 2510650F-71A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103018**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:27 PM**	

Compound	%Recovery	Method Limits
Bromoform	98	70-130
Cumene	108	70-130
Propylbenzene	102	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	109	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	120	70-130
Hexachlorobutadiene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650F-71AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103019**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:52 PM**	

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Freon 114	100	70-130
Chloromethane	103	70-130
1,3-Butadiene	114	70-130
Bromomethane	111	70-130
Chloroethane	112	70-130
Freon 11	101	70-130
Ethanol	120	70-130
Freon 113	97	70-130
1,1-Dichloroethene	101	70-130
Acetone	103	70-130
2-Propanol	120	70-130
Carbon Disulfide	100	70-130
3-Chloropropene	113	70-130
Methylene Chloride	105	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	114	70-130
1,1-Dichloroethane	107	70-130
2-Butanone (Methyl Ethyl Ketone)	109	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	114	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	99	70-130
2,2,4-Trimethylpentane	111	70-130
Heptane	109	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	109	70-130
4-Methyl-2-pentanone	116	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	99	70-130
2-Hexanone	118	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	103	70-130
m,p-Xylene	108	70-130
o-Xylene	108	70-130
Styrene	109	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650F-71AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103019**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:52 PM**	

Compound	%Recovery	Method Limits
Bromoform	101	70-130
Cumene	109	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	123	70-130
Hexachlorobutadiene	107	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650F-71B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103018sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:27 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	111	70-130
Chloroform	100	70-130
Benzene	107	70-130
1,2-Dichloroethane	98	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	98	70-130
Ethyl Benzene	107	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Naphthalene	114	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650F-71BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103019sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 07:52 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	113	70-130
Chloroform	102	70-130
Benzene	108	70-130
1,2-Dichloroethane	99	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	107	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	114	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2510650F-71C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	99	70-130
Chloromethane	106	70-130
1,3-Butadiene	116	70-130
Bromomethane	109	70-130
Chloroethane	112	70-130
Freon 11	100	70-130
Ethanol	109	70-130
Freon 113	95	70-130
1,1-Dichloroethene	101	70-130
Acetone	104	70-130
2-Propanol	124	70-130
Carbon Disulfide	99	70-130
3-Chloropropene	112	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	107	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	114	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	114	70-130
1,1,1-Trichloroethane	102	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	112	70-130
Heptane	109	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	108	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	115	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	97	70-130
2-Hexanone	118	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	103	70-130
m,p-Xylene	107	70-130
o-Xylene	108	70-130
Styrene	110	70-130

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Client Sample ID: LCS

Lab ID#: 2510650F-71C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Bromoform	100	70-130
Cumene	108	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	122	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650F-71CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	101	70-130
Chloromethane	108	70-130
1,3-Butadiene	118	70-130
Bromomethane	114	70-130
Chloroethane	113	70-130
Freon 11	102	70-130
Ethanol	129	70-130
Freon 113	97	70-130
1,1-Dichloroethene	103	70-130
Acetone	107	70-130
2-Propanol	126	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	114	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	110	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	115	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	110	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	118	70-130
1,1,1-Trichloroethane	106	70-130
Cyclohexane	112	70-130
Carbon Tetrachloride	101	70-130
2,2,4-Trimethylpentane	115	70-130
Heptane	112	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	109	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	111	70-130
4-Methyl-2-pentanone	119	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	112	70-130
Tetrachloroethene	98	70-130
2-Hexanone	119	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	103	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130
Styrene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650F-71CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Bromoform	99	70-130
Cumene	108	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	111	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	122	70-130
Hexachlorobutadiene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCS

Lab ID#: 2510650F-71D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103108sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:10 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	115	70-130
Chloroform	101	70-130
Benzene	109	70-130
1,2-Dichloroethane	100	70-130
1,1,2-Trichloroethane	105	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	106	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	113	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCSD

Lab ID#: 2510650F-71DD

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3103109sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 10:35 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	116	70-130
Chloroform	103	70-130
Benzene	109	70-130
1,2-Dichloroethane	101	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	99	70-130
Ethyl Benzene	107	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Naphthalene	115	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.050
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	1.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	1.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.20
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	1.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.050
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.020

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Method : TO-15 (Hybrid) Full List + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.20
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.050
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0
91-20-3	Naphthalene	0.20

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analytical Report

10/31/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650G

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650G

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/31/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGP-30-H	Modified ASTM D-1946	8.2 "Hg	1.9 psi
02A	SGP-DUP-01	Modified ASTM D-1946	9.2 "Hg	1.9 psi
03A	SGP-30	Modified ASTM D-1946	9.2 "Hg	1.8 psi
04A	SGP-31-H	Modified ASTM D-1946	8.2 "Hg	1.7 psi
05A	SGP-31	Modified ASTM D-1946	9 "Hg	1.9 psi
06A	SGP-32-H	Modified ASTM D-1946	9.4 "Hg	1.9 psi
07A	SGP-32	Modified ASTM D-1946	9.2 "Hg	1.8 psi
08A	SGP-59-H	Modified ASTM D-1946	19.6 "Hg	2.6 psi
09A	SGP-DUP-02	Modified ASTM D-1946	11.8 "Hg	2.9 psi
10A	SGP-59	Modified ASTM D-1946	10 "Hg	1.8 psi
11A	SGP-33-H	Modified ASTM D-1946	10.8 "Hg	1.8 psi
12A	SGP-33	Modified ASTM D-1946	8 "Hg	1.9 psi
13A	SGP-49-H	Modified ASTM D-1946	8.6 "Hg	1.9 psi
14A	SGP-49	Modified ASTM D-1946	7.3 "Hg	1.9 psi
15A	SGP-34-H	Modified ASTM D-1946	9.8 "Hg	1.9 psi
16A	SGP-34	Modified ASTM D-1946	10 "Hg	1.9 psi
17A	SGP-35-H	Modified ASTM D-1946	9.2 "Hg	1.9 psi
18A	SGP-DUP-03	Modified ASTM D-1946	9.4 "Hg	1.9 psi
19A	SGP-35	Modified ASTM D-1946	8.2 "Hg	2.4 psi
20A	SGP-36-H	Modified ASTM D-1946	6.9 "Hg	1.9 psi
21A	SGP-36	Modified ASTM D-1946	6.1 "Hg	1.9 psi
22A	SGP-37-H	Modified ASTM D-1946	9.8 "Hg	1.9 psi
23A	SGP-37	Modified ASTM D-1946	7.3 "Hg	1.9 psi

Continued on next page

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WORK ORDER #: 2510650G

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/31/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
24A	SGP-38-H	Modified ASTM D-1946	9 "Hg	1.9 psi
25A	Lab Blank	Modified ASTM D-1946	NA	NA
25B	Lab Blank	Modified ASTM D-1946	NA	NA
26A	CCV	Modified ASTM D-1946	NA	NA
26B	CCV	Modified ASTM D-1946	NA	NA
27A	LCS	Modified ASTM D-1946	NA	NA
27AA	LCSD	Modified ASTM D-1946	NA	NA
27B	LCS	Modified ASTM D-1946	NA	NA
27BB	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/31/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
Modified ASTM D-1946
S & ME, Inc.
Workorder# 2510650G

Twenty-four 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane in air using GC/FID. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

Sample SGP-59-H was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-30-H

Lab ID#: 2510650G-01A

No Detections Were Found.

Client Sample ID: SGP-DUP-01

Lab ID#: 2510650G-02A

No Detections Were Found.

Client Sample ID: SGP-30

Lab ID#: 2510650G-03A

No Detections Were Found.

Client Sample ID: SGP-31-H

Lab ID#: 2510650G-04A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.00027

Client Sample ID: SGP-31

Lab ID#: 2510650G-05A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	3.8

Client Sample ID: SGP-32-H

Lab ID#: 2510650G-06A

No Detections Were Found.

Client Sample ID: SGP-32

Lab ID#: 2510650G-07A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00017

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-59-H

Lab ID#: 2510650G-08A

No Detections Were Found.

Client Sample ID: SGP-DUP-02

Lab ID#: 2510650G-09A

No Detections Were Found.

Client Sample ID: SGP-59

Lab ID#: 2510650G-10A

No Detections Were Found.

Client Sample ID: SGP-33-H

Lab ID#: 2510650G-11A

No Detections Were Found.

Client Sample ID: SGP-33

Lab ID#: 2510650G-12A

No Detections Were Found.

Client Sample ID: SGP-49-H

Lab ID#: 2510650G-13A

No Detections Were Found.

Client Sample ID: SGP-49

Lab ID#: 2510650G-14A

No Detections Were Found.

Client Sample ID: SGP-34-H

Lab ID#: 2510650G-15A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.00021

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-34

Lab ID#: 2510650G-16A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	2.7

Client Sample ID: SGP-35-H

Lab ID#: 2510650G-17A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.33

Client Sample ID: SGP-DUP-03

Lab ID#: 2510650G-18A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.33

Client Sample ID: SGP-35

Lab ID#: 2510650G-19A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	23

Client Sample ID: SGP-36-H

Lab ID#: 2510650G-20A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	48

Client Sample ID: SGP-36

Lab ID#: 2510650G-21A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00014	55

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-37-H

Lab ID#: 2510650G-22A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.012

Client Sample ID: SGP-37

Lab ID#: 2510650G-23A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	33

Client Sample ID: SGP-38-H

Lab ID#: 2510650G-24A

No Detections Were Found.

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Client Sample ID: SGP-30-H

Lab ID#: 2510650G-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103004**	**Date of Collection: 10/13/25 11:08:00 A**	
Dil. Factor:	**1.55**	**Date of Analysis: 10/29/25 09:07 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-DUP-01

Lab ID#: 2510650G-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103005**	**Date of Collection:**	**10/13/25 11:08:00 A**
Dil. Factor:	**1.63**	**Date of Analysis:**	**10/30/25 06:22 AM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-30

Lab ID#: 2510650G-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103006**	**Date of Collection: 10/13/25 11:23:00 A**	
Dil. Factor:	**1.62**	**Date of Analysis: 10/30/25 07:01 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-31-H

Lab ID#: 2510650G-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103007**	**Date of Collection: 10/13/25 11:45:00 A**	
Dil. Factor:	**1.53**	**Date of Analysis: 10/30/25 07:26 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.00027

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-31

Lab ID#: 2510650G-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103008**	**Date of Collection:**	**10/13/25 12:12:00 P**
Dil. Factor:	**1.61**	**Date of Analysis:**	**10/30/25 07:52 AM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	3.8

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-32-H

Lab ID#: 2510650G-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103009**	**Date of Collection: 10/13/25 12:47:00 P**	
Dil. Factor:	**1.64**	**Date of Analysis: 10/30/25 08:28 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-32

Lab ID#: 2510650G-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103010**	**Date of Collection: 10/13/25 12:58:00 P**	
Dil. Factor:	**1.62**	**Date of Analysis: 10/30/25 09:18 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00017

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-59-H

Lab ID#: 2510650G-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103011**	**Date of Collection: 10/14/25 12:28:00 P**	
Dil. Factor:	**3.39**	**Date of Analysis: 10/30/25 09:51 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00034	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-DUP-02

Lab ID#: 2510650G-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103012**	**Date of Collection:**	**10/14/25 12:28:00 P**
Dil. Factor:	**1.98**	**Date of Analysis:**	**10/30/25 10:23 AM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00020	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-59

Lab ID#: 2510650G-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103013**	**Date of Collection: 10/14/25 10:36:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 10/30/25 10:54 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-33-H

Lab ID#: 2510650G-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103014**	**Date of Collection: 10/14/25 11:10:00 A**	
Dil. Factor:	**1.76**	**Date of Analysis: 10/30/25 11:22 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00018	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-33

Lab ID#: 2510650G-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103015**	**Date of Collection:**	**10/14/25 12:00:00 P**
Dil. Factor:	**1.54**	**Date of Analysis:**	**10/30/25 11:49 AM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-49-H

Lab ID#: 2510650G-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103016**	**Date of Collection: 10/14/25 11:48:00 A**	
Dil. Factor:	**1.58**	**Date of Analysis: 10/30/25 12:56 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-49

Lab ID#: 2510650G-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103017**	**Date of Collection:**	**10/14/25 12:04:00 P**
Dil. Factor:	**1.50**	**Date of Analysis:**	**10/30/25 01:28 PM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-34-H

Lab ID#: 2510650G-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103019**	**Date of Collection: 10/14/25 12:30:00 P**	
Dil. Factor:	**1.68**	**Date of Analysis: 10/30/25 02:18 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.00021

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-34

Lab ID#: 2510650G-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103020**	**Date of Collection:**	**10/14/25 12:41:00 P**
Dil. Factor:	**1.69**	**Date of Analysis:**	**10/30/25 02:42 PM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	2.7

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-35-H

Lab ID#: 2510650G-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103021**	**Date of Collection: 10/15/25 10:05:00 A**	
Dil. Factor:	**1.63**	**Date of Analysis: 10/30/25 03:07 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.33

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-DUP-03

Lab ID#: 2510650G-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103022**	**Date of Collection: 10/15/25 10:05:00 A**	
Dil. Factor:	**1.64**	**Date of Analysis: 10/30/25 04:27 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.33

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-35

Lab ID#: 2510650G-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103023**	**Date of Collection: 10/15/25 10:19:00 A**	
Dil. Factor:	**1.60**	**Date of Analysis: 10/30/25 04:51 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	23

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-36-H

Lab ID#: 2510650G-20A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103024**	**Date of Collection: 10/15/25 10:44:00 A**	
Dil. Factor:	**1.47**	**Date of Analysis: 10/30/25 05:19 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	48

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-36

Lab ID#: 2510650G-21A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103105**	**Date of Collection: 10/15/25 10:57:00 A**	
Dil. Factor:	**1.42**	**Date of Analysis: 10/31/25 09:25 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00014	55

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-37-H

Lab ID#: 2510650G-22A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103106**	**Date of Collection: 10/15/25 11:07:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 10/31/25 09:47 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.012

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-37

Lab ID#: 2510650G-23A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103107**	**Date of Collection: 10/15/25 11:24:00 A**	
Dil. Factor:	**1.50**	**Date of Analysis: 10/31/25 10:26 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	33

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-38-H

Lab ID#: 2510650G-24A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103111**	**Date of Collection: 10/15/25 11:40:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 10/31/25 02:13 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 2510650G-25A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/25 08:35 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 2510650G-25B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 08:50 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2510650G-26A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103001**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/25 07:41 PM**

Compound	%Recovery
Methane	98

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2510650G-26B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103101**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 07:26 AM**

Compound	%Recovery
Methane	99

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 2510650G-27A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/25 08:08 PM**	

Compound	%Recovery	Method Limits
Methane	96	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 2510650G-27AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11103025**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 06:04 PM**	

Compound	%Recovery	Method Limits
Methane	97	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 2510650G-27B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 07:48 AM**	

Compound	%Recovery	Method Limits
Methane	101	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 2510650G-27BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/31/25 08:10 AM**	

Compound	%Recovery	Method Limits
Methane	99	85-115

Container Type: NA - Not Applicable

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Method : Modified ASTM D-1946 (Sh)-CH4 only

CAS Number	Compound	Rpt. Limit (%)
74-82-8	Methane	0.00010

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Analytical Report

10/31/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650H

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650H

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/31/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
25A	SGP-38	Modified ASTM D-1946	10.4 "Hg	1.9 psi
26A	SGP-39-H	Modified ASTM D-1946	8 "Hg	1.9 psi
27A	SGP-39	Modified ASTM D-1946	9.8 "Hg	1.8 psi
28A	SGP-51-H	Modified ASTM D-1946	9 "Hg	1.9 psi
29A	SGP-DUP-04	Modified ASTM D-1946	8.4 "Hg	1.9 psi
30A	SGP-51	Modified ASTM D-1946	8 "Hg	1.9 psi
31A	SGP-40-H	Modified ASTM D-1946	7.8 "Hg	1.9 psi
32A	SGP-40	Modified ASTM D-1946	10 "Hg	1.8 psi
33A	SGP-41-H	Modified ASTM D-1946	9 "Hg	1.9 psi
34A	SGP-41	Modified ASTM D-1946	7.6 "Hg	1.9 psi
35A	SGP-42-H	Modified ASTM D-1946	7.6 "Hg	1.9 psi
36A	SGP-42	Modified ASTM D-1946	9.8 "Hg	1.9 psi
37A	SGP-52-H	Modified ASTM D-1946	8.4 "Hg	1.9 psi
38A	SGP-DUP-05	Modified ASTM D-1946	9.4 "Hg	1.9 psi
39A	SGP-52	Modified ASTM D-1946	6.3 "Hg	1.9 psi
40A	SGP-53-H	Modified ASTM D-1946	6.3 "Hg	1.9 psi
41A	SGP-53	Modified ASTM D-1946	10.4 "Hg	1.9 psi
42A	SGP-55-H	Modified ASTM D-1946	8.6 "Hg	1.9 psi
43A	SGP-55	Modified ASTM D-1946	9.2 "Hg	2 psi
44A	SGP-44-H	Modified ASTM D-1946	7.6 "Hg	1.9 psi
45A	SGP-44	Modified ASTM D-1946	9 "Hg	1.9 psi
46A	SGP-50-H	Modified ASTM D-1946	9.6 "Hg	1.9 psi
47A	SGP-DUP-06	Modified ASTM D-1946	7.1 "Hg	1.9 psi

Continued on next page

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WORK ORDER #: 2510650H

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/31/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
48A	SGP-50	Modified ASTM D-1946	9.6 "Hg	1.9 psi
49A	Lab Blank	Modified ASTM D-1946	NA	NA
49B	Lab Blank	Modified ASTM D-1946	NA	NA
50A	CCV	Modified ASTM D-1946	NA	NA
50B	CCV	Modified ASTM D-1946	NA	NA
51A	LCS	Modified ASTM D-1946	NA	NA
51AA	LCSD	Modified ASTM D-1946	NA	NA
51B	LCS	Modified ASTM D-1946	NA	NA
51BB	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/31/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
Modified ASTM D-1946
S & ME, Inc.
Workorder# 2510650H

Twenty-four 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane in air using GC/FID. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-38

Lab ID#: 2510650H-25A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.00031

Client Sample ID: SGP-39-H

Lab ID#: 2510650H-26A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.026

Client Sample ID: SGP-39

Lab ID#: 2510650H-27A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.80

Client Sample ID: SGP-51-H

Lab ID#: 2510650H-28A

No Detections Were Found.

Client Sample ID: SGP-DUP-04

Lab ID#: 2510650H-29A

No Detections Were Found.

Client Sample ID: SGP-51

Lab ID#: 2510650H-30A

No Detections Were Found.

Client Sample ID: SGP-40-H

Lab ID#: 2510650H-31A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.0040

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-40

Lab ID#: 2510650H-32A

No Detections Were Found.

Client Sample ID: SGP-41-H

Lab ID#: 2510650H-33A

No Detections Were Found.

Client Sample ID: SGP-41

Lab ID#: 2510650H-34A

No Detections Were Found.

Client Sample ID: SGP-42-H

Lab ID#: 2510650H-35A

No Detections Were Found.

Client Sample ID: SGP-42

Lab ID#: 2510650H-36A

No Detections Were Found.

Client Sample ID: SGP-52-H

Lab ID#: 2510650H-37A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.14

Client Sample ID: SGP-DUP-05

Lab ID#: 2510650H-38A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.15

Client Sample ID: SGP-52

Lab ID#: 2510650H-39A

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-52

Lab ID#: 2510650H-39A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00014	0.35

Client Sample ID: SGP-53-H

Lab ID#: 2510650H-40A

No Detections Were Found.

Client Sample ID: SGP-53

Lab ID#: 2510650H-41A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.86

Client Sample ID: SGP-55-H

Lab ID#: 2510650H-42A

No Detections Were Found.

Client Sample ID: SGP-55

Lab ID#: 2510650H-43A

No Detections Were Found.

Client Sample ID: SGP-44-H

Lab ID#: 2510650H-44A

No Detections Were Found.

Client Sample ID: SGP-44

Lab ID#: 2510650H-45A

No Detections Were Found.

Client Sample ID: SGP-50-H

Lab ID#: 2510650H-46A

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-50-H

Lab ID#: 2510650H-46A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	2.4

Client Sample ID: SGP-DUP-06

Lab ID#: 2510650H-47A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.0060

Client Sample ID: SGP-50

Lab ID#: 2510650H-48A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	10

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Client Sample ID: SGP-38

Lab ID#: 2510650H-25A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102825**	**Date of Collection: 10/15/25 11:43:00 A**	
Dil. Factor:	**1.73**	**Date of Analysis: 10/28/25 08:32 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.00031

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-39-H

Lab ID#: 2510650H-26A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102826**	**Date of Collection:**	**10/15/25 12:13:00 P**
Dil. Factor:	**1.54**	**Date of Analysis:**	**10/28/25 08:57 PM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.026

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-39

Lab ID#: 2510650H-27A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102827**	**Date of Collection: 10/15/25 12:31:00 P**	
Dil. Factor:	**1.67**	**Date of Analysis: 10/29/25 06:38 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.80

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-51-H

Lab ID#: 2510650H-28A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102828**	**Date of Collection: 10/16/25 10:45:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 10/29/25 07:12 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-DUP-04

Lab ID#: 2510650H-29A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102829**	**Date of Collection: 10/16/25 10:45:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 10/29/25 07:39 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-51

Lab ID#: 2510650H-30A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102830**	**Date of Collection: 10/16/25 10:55:00 A**	
Dil. Factor:	**1.54**	**Date of Analysis: 10/29/25 08:05 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-40-H

Lab ID#: 2510650H-31A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102831**	**Date of Collection: 10/16/25 11:18:00 A**	
Dil. Factor:	**1.52**	**Date of Analysis: 10/29/25 08:31 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.0040

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-40

Lab ID#: 2510650H-32A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102832**	**Date of Collection: 10/16/25 11:14:00 A**	
Dil. Factor:	**1.68**	**Date of Analysis: 10/29/25 09:06 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-41-H

Lab ID#: 2510650H-33A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102833**	**Date of Collection:**	**10/16/25 11:53:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**10/29/25 09:37 AM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-41

Lab ID#: 2510650H-34A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102834**	**Date of Collection: 10/16/25 12:01:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 10/29/25 10:03 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-42-H

Lab ID#: 2510650H-35A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102835**	**Date of Collection: 10/16/25 12:32:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 10/29/25 10:29 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-42

Lab ID#: 2510650H-36A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102836**	**Date of Collection: 10/16/25 12:40:00 P**	
Dil. Factor:	**1.68**	**Date of Analysis: 10/29/25 10:56 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-52-H

Lab ID#: 2510650H-37A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102837**	**Date of Collection: 10/17/25 10:19:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 10/29/25 11:26 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.14

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-DUP-05

Lab ID#: 2510650H-38A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102838**	**Date of Collection:**	**10/17/25 10:19:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**10/29/25 11:54 AM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.15

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-52

Lab ID#: 2510650H-39A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102839**	**Date of Collection: 10/17/25 10:38:00 A**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/29/25 12:18 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00014	0.35

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-53-H

Lab ID#: 2510650H-40A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102840**	**Date of Collection: 10/17/25 11:08:00 A**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/29/25 12:43 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00014	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-53

Lab ID#: 2510650H-41A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102841**	**Date of Collection: 10/17/25 11:17:00 A**	
Dil. Factor:	**1.73**	**Date of Analysis: 10/29/25 01:17 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.86

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-55-H

Lab ID#: 2510650H-42A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102842**	**Date of Collection: 10/17/25 11:38:00 A**	
Dil. Factor:	**1.58**	**Date of Analysis: 10/29/25 01:40 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-55

Lab ID#: 2510650H-43A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102843**	**Date of Collection:**	**10/17/25 11:50:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**10/29/25 02:06 PM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-44-H

Lab ID#: 2510650H-44A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102844**	**Date of Collection: 10/17/25 12:13:00 P**	
Dil. Factor:	**1.51**	**Date of Analysis: 10/29/25 02:30 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-44

Lab ID#: 2510650H-45A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102846**	**Date of Collection: 10/17/25 12:22:00 P**	
Dil. Factor:	**1.61**	**Date of Analysis: 10/29/25 12:20 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-50-H

Lab ID#: 2510650H-46A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102847**	**Date of Collection: 10/20/25 10:13:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 10/29/25 12:46 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	2.4

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-DUP-06

Lab ID#: 2510650H-47A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102848**	**Date of Collection:**	**10/20/25 10:13:00 A**
Dil. Factor:	**1.48**	**Date of Analysis:**	**10/29/25 01:55 PM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.0060

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-50

Lab ID#: 2510650H-48A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102849**	**Date of Collection: 10/20/25 10:23:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 10/29/25 02:18 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	10

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2510650H-49A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102824**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 08:07 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 2510650H-49B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102829**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 06:26 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2510650H-50A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102820**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 06:25 PM**

Compound	%Recovery
Methane	94

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2510650H-50B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102825**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 04:20 PM**

Compound	%Recovery
Methane	100

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2510650H-51A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102821**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 06:52 PM**	

Compound	%Recovery	Method Limits
Methane	96	93-105

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 2510650H-51AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**11102822**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 07:18 PM**	

Compound	%Recovery	Method Limits
Methane	96	93-105

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 2510650H-51B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102826**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 04:49 PM**	

Compound	%Recovery	Method Limits
Methane	103	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 2510650H-51BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10102827**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/28/25 05:14 PM**	

Compound	%Recovery	Method Limits
Methane	101	85-115

Container Type: NA - Not Applicable

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Method : Modified ASTM D-1946 (Sh)-CH4 only

CAS Number	Compound	Rpt. Limit (%)
74-82-8	Methane	0.00010

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Analytical Report

10/31/2025
Mr. Tom Raymond
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name: Cliffdale Landfill
Project #: 23050459 Ph. 16
Workorder #: 2510650I

Dear Mr. Tom Raymond

The following report includes the data for the above referenced project for sample(s) received on 10/24/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2510650I

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/31/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
49A	SGP-43-H	Modified ASTM D-1946	9.6 "Hg	2 psi
50A	SGP-43	Modified ASTM D-1946	9.8 "Hg	1.6 psi
51A	SGP-45-H	Modified ASTM D-1946	8.8 "Hg	1.8 psi
52A	SGP-45	Modified ASTM D-1946	9.6 "Hg	1.9 psi
53A	SGP-46-H	Modified ASTM D-1946	8.6 "Hg	2 psi
54A	SGP-46	Modified ASTM D-1946	8.6 "Hg	1.8 psi
55A	SGP-54-H	Modified ASTM D-1946	8.6 "Hg	3.4 psi
56A	SGP-DUP-07	Modified ASTM D-1946	9.6 "Hg	1.9 psi
57A	SGP-54	Modified ASTM D-1946	8.6 "Hg	1.8 psi
58A	SGP-56-H	Modified ASTM D-1946	9.6 "Hg	1.7 psi
59A	SGP-56	Modified ASTM D-1946	10.4 "Hg	1.8 psi
60A	SGP-58-H	Modified ASTM D-1946	8.8 "Hg	1.8 psi
61A	SGP-58	Modified ASTM D-1946	11 "Hg	1.8 psi
62A	SGP-47-H	Modified ASTM D-1946	10.4 "Hg	3 psi
63A	SGP-DUP-08	Modified ASTM D-1946	9.8 "Hg	1.9 psi
64A	SGP-47	Modified ASTM D-1946	10.8 "Hg	1.7 psi
65A	SGP-57-H	Modified ASTM D-1946	8 "Hg	2 psi
66A	SGP-57	Modified ASTM D-1946	8.8 "Hg	1.9 psi
67A	SGP-48-H	Modified ASTM D-1946	9 "Hg	1.9 psi
68A	SGP-48	Modified ASTM D-1946	9 "Hg	2 psi
69A	Lab Blank	Modified ASTM D-1946	NA	NA
70A	CCV	Modified ASTM D-1946	NA	NA
71A	LCS	Modified ASTM D-1946	NA	NA

Continued on next page

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WORK ORDER #: 2510650I

Work Order Summary

CLIENT:	Mr. Tom Raymond S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Accounts Payable S & ME, Inc. 3380 Town Point Drive Suite 140 Kennesaw, GA 30144
PHONE:	919-872-2660	**P.O. #**	23050459 Ph. 16
FAX:	919-790-8909	**PROJECT #**	23050459 Ph. 16 Cliffdale Landfill
DATE RECEIVED:	10/24/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/31/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
71AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/31/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
Modified ASTM D-1946
S & ME, Inc.
Workorder# 2510650I

Twenty 6 Liter Summa Canister samples were received on October 24, 2025. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane in air using GC/FID. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-43-H

Lab ID#: 2510650I-49A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.00074

Client Sample ID: SGP-43

Lab ID#: 2510650I-50A

No Detections Were Found.

Client Sample ID: SGP-45-H

Lab ID#: 2510650I-51A

No Detections Were Found.

Client Sample ID: SGP-45

Lab ID#: 2510650I-52A

No Detections Were Found.

Client Sample ID: SGP-46-H

Lab ID#: 2510650I-53A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00019

Client Sample ID: SGP-46

Lab ID#: 2510650I-54A

No Detections Were Found.

Client Sample ID: SGP-54-H

Lab ID#: 2510650I-55A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.016

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-DUP-07

Lab ID#: 2510650I-56A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.016

Client Sample ID: SGP-54

Lab ID#: 2510650I-57A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.0063

Client Sample ID: SGP-56-H

Lab ID#: 2510650I-58A

No Detections Were Found.

Client Sample ID: SGP-56

Lab ID#: 2510650I-59A

No Detections Were Found.

Client Sample ID: SGP-58-H

Lab ID#: 2510650I-60A

No Detections Were Found.

Client Sample ID: SGP-58

Lab ID#: 2510650I-61A

No Detections Were Found.

Client Sample ID: SGP-47-H

Lab ID#: 2510650I-62A

No Detections Were Found.

Client Sample ID: SGP-DUP-08

Lab ID#: 2510650I-63A

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SGP-DUP-08

Lab ID#: 2510650I-63A

No Detections Were Found.

Client Sample ID: SGP-47

Lab ID#: 2510650I-64A

No Detections Were Found.

Client Sample ID: SGP-57-H

Lab ID#: 2510650I-65A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00021

Client Sample ID: SGP-57

Lab ID#: 2510650I-66A

No Detections Were Found.

Client Sample ID: SGP-48-H

Lab ID#: 2510650I-67A

No Detections Were Found.

Client Sample ID: SGP-48

Lab ID#: 2510650I-68A

No Detections Were Found.

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Client Sample ID: SGP-43-H

Lab ID#: 2510650I-49A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103004**	**Date of Collection: 10/20/25 10:49:00 A**	
Dil. Factor:	**1.67**	**Date of Analysis: 10/29/25 09:07 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.00074

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-43

Lab ID#: 2510650I-50A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103005**	**Date of Collection: 10/20/25 10:49:00 A**	
Dil. Factor:	**1.65**	**Date of Analysis: 10/30/25 05:53 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-45-H

Lab ID#: 2510650I-51A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103006**	**Date of Collection: 10/20/25 11:09:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 10/30/25 06:16 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-45

Lab ID#: 2510650I-52A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103007**	**Date of Collection: 10/20/25 11:26:00 A**	
Dil. Factor:	**1.66**	**Date of Analysis: 10/30/25 07:03 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-46-H

Lab ID#: 2510650I-53A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103008**	**Date of Collection: 10/20/25 11:46:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 10/30/25 07:29 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00019

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-46

Lab ID#: 2510650I-54A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103009**	**Date of Collection: 10/20/25 11:53:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 10/30/25 08:26 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-54-H

Lab ID#: 2510650I-55A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103010**	**Date of Collection: 10/21/25 10:41:00 A**	
Dil. Factor:	**1.72**	**Date of Analysis: 10/30/25 09:21 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.016

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-DUP-07

Lab ID#: 2510650I-56A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103011**	**Date of Collection:**	**10/21/25 10:41:00 A**
Dil. Factor:	**1.66**	**Date of Analysis:**	**10/30/25 09:48 AM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.016

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-54

Lab ID#: 2510650I-57A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103012**	**Date of Collection: 10/21/25 10:56:00 A**	
Dil. Factor:	**1.57**	**Date of Analysis: 10/30/25 10:19 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.0063

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-56-H

Lab ID#: 2510650I-58A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103013**	**Date of Collection: 10/21/25 11:14:00 A**	
Dil. Factor:	**1.64**	**Date of Analysis: 10/30/25 10:53 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-56

Lab ID#: 2510650I-59A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103014**	**Date of Collection: 10/21/25 11:24:00 A**	
Dil. Factor:	**1.72**	**Date of Analysis: 10/30/25 11:41 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: SGP-58-H

Lab ID#: 2510650I-60A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103015**	**Date of Collection: 10/21/25 11:47:00 A**	
Dil. Factor:	**1.59**	**Date of Analysis: 10/30/25 12:10 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-58

Lab ID#: 2510650I-61A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103016**	**Date of Collection: 10/21/25 11:55:00 A**	
Dil. Factor:	**1.77**	**Date of Analysis: 10/30/25 12:37 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00018	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-47-H

Lab ID#: 2510650I-62A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103017**	**Date of Collection: 10/22/25 10:54:00 A**	
Dil. Factor:	**1.84**	**Date of Analysis: 10/30/25 01:29 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00018	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-DUP-08

Lab ID#: 2510650I-63A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103018**	**Date of Collection:**	**10/22/25 10:54:00 A**
Dil. Factor:	**1.68**	**Date of Analysis:**	**10/30/25 01:54 PM**

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-47

Lab ID#: 2510650I-64A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103019**	**Date of Collection: 10/22/25 11:12:00 A**	
Dil. Factor:	**1.74**	**Date of Analysis: 10/30/25 02:18 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-57-H

Lab ID#: 2510650I-65A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103020**	**Date of Collection: 10/22/25 11:27:00 A**	
Dil. Factor:	**1.55**	**Date of Analysis: 10/30/25 02:42 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00021

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-57

Lab ID#: 2510650I-66A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103021**	**Date of Collection: 10/22/25 11:38:00 A**	
Dil. Factor:	**1.60**	**Date of Analysis: 10/30/25 03:08 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-48-H

Lab ID#: 2510650I-67A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103022**	**Date of Collection: 10/22/25 11:59:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 10/30/25 04:27 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: SGP-48

Lab ID#: 2510650I-68A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103023**	**Date of Collection: 10/22/25 12:27:00 P**	
Dil. Factor:	**1.62**	**Date of Analysis: 10/30/25 04:52 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2510650I-69A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/25 08:36 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2510650I-70A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103001**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/25 07:42 PM**

Compound	%Recovery
Methane	100

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 2510650I-71A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/25 08:09 PM**	

Compound	%Recovery	Method Limits
Methane	101	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 2510650I-71AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10103024**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/25 05:20 PM**	

Compound	%Recovery	Method Limits
Methane	100	85-115

Container Type: NA - Not Applicable

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Method : Modified ASTM D-1946 (Sh)-CH4 only

CAS Number	Compound	Rpt. Limit (%)
74-82-8	Methane	0.00010

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SHME
Site Name: Cliffdale LF
Project Manager: Tom. Raymond
Sampler: Logan Hesler

Project Name: Cliffdale LF
Project #: Z3050459 Ph. 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	VOCs by TO-15 plus naphthalene				Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
25A	SGP-31	6L2982	23783	10/15/25	1055	10/15/25	1143	X				29	5		
26A	SGP-39-H	6L1725	23487	"	1113	"	1213	"				30	6		
27A	SGP-39	6L0401	23375	"	1131	"	1231	"				30	9		
28A	SGP-51-H	6L2279	23753	10/16/25	945	10/16/25	1045	"				30	4		
29A	SGP-DUP-04	6L1806	23208	"	945	"	1045	"				28	8		
30A	SGP-51	6L0511	23261	"	955	"	1055	"				27	6		
31A	SGP-40-H	6L1804	23307	"	1018	"	1118	"				30	9		
32A	SGP-40	6L0409	24059	"	1026	"	1114	"				29	5		
33A	SGP-41-H	6L2042	24554	"	1057	"	1153	"				30	5		
34A	SGP-41	6L1795	28366	"	1101	"	1201	"				30	5		
35A	SGP-42-H	6L0252	24032	"	1132	"	1232	"				30	8		
36A	SGP-42	6L1070	24906	"	1140	"	1246	"				30	9		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0935
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510657

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SAME
Site Name: Cliffdale LP
Project Manager: Tom. Raymond
Sampler: Logan Hester

Project Name: Cliffdale LP
Project #: 23050159 Ph. 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
QR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses: Vinyl Chloride + Dynamic TO-15				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time					Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
37A	SGP-52-H	6L0157	24037	10/17/25	922	10/17/25	1014	X				27	5		
38A	SGP-DUP-05	6L0957	25272		922		1014					30	7		
39A	SGP-52	6L0905	23259		938		1038					29	8		
40A	SGP-53-H	6L0775	24922		1008		1108					30	7		
41A	SGP-53	6L2222	24882		1017		1117					29	8		
42A	SGP-55-H	6L0116	23357		1038		1138					30	5		
43A	SGP-55	6L2226	23718		1050		1150					30	7		
44A	SGP-44-H	6L0159	23681		1113		1213					30	6		
45A	SGP-44	6L0169	22700		1122		1222					30	5		
46A	SGP-50-H	6L2496	23513	10/20/25	913	10/20/25	1013					29	7		
47A	SGP-DUP-06	6L0969	23123		913		1013					27	5		
48A	SGP-50	6L1762	24726		927		1023					29	5		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LF
Project Manager: Tom Raymond
Sampler: Logan Hester

Project Name: Cliffdale LF
Project #: 23050459 Ph. 16 (1) (1)
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	Vocs by TO-15 Full Methanol				Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
49A	SGP-43-H	3011	24295	10/20/25	943	10/20/25	1049	X				29	9		
50A	SGP-43	6L1039	24669	"	949	"	1049	"				26	9		
51A	SGP-45-H	6L2757	23418	"	1013	"	1109	"				30	5		
52A	SGP-45	6L0316	24888	"	1026	"	1126	"				29	8		
53A	SGP-46-H	24482	26804	"	1046	"	1146	"				30	10		
54A	SGP-46	[illegible]	23155	"	1053	"	1153	"				29	5		
55A	SGP-54-H	6L1756	24190	10/21/25	941	10/21/25	1041	"				30	7		
56A	SGP-54P-07	6L0491	23535	"	941	"	1041	"				29	8		
57A	SGP-54	6L0537	23666	"	956	"	1056	"				28	7		
58A	SGP-55-H	6L1179	24546	"	1014	"	1114	"				27	6		
59A	SGP-56	6L3000	24346	"	1024	"	1124	"				30	9		
60A	SGP-58-H	6L2201	24388	"	1047	"	1147	"				29	5		

Special Instructions/Notes:
can ID # for SGP-46 is 6L0241

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LF
Project Manager: TOM RAYMOND
Sampler: Logan Meyer

Project Name: Cliffdale LF
Project #: 23050459 Ph. 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses: VOCs by TO-15 TNMHC	Canister Vacuum/Pressure: Initial (in Hg)	Final (in Hg)	Lab Use Only: Receipt (in "Hg)	Final (in psi) Gas: N2 / He
				Date	Time	Date	Time					
61A	SGP-58	6L2738	23151	10/21/25	1100	10/22/25	1155	X	30	5		
62A	SGP-47-M	6L1077	27030	10/21/25	956	10/22/25	1054		28	7		
63A	SGP-DUP-08	6L2094	23310		956		1054		29	4		
64A	SGP-47	6L2159	25319		1042		1112		29	5		
65A	SGP-57-M	6L1211	24741		1027		1127		30	6		
66A	SGP-57	6L0302	23608		1038		1139		29	9		
67A	SGP-48-M	6L1788	24234		1059		1159		30	6		
68A	SGP-48	~~24234~~ 6L0774	23330		1125		1227		23	7		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LF
Project Manager: Tom. Raymond
Sampler: Logan Hester

Project Name: Cliffdale Landfill
Project #: 230504S9 Ph. 16
PO#: 230504S9 Ph. 16

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses: Vocs by TO-15 Plus Methane				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time					Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
01A	SGP-30-H	6L0979	23244	10-13-25	1010	10-13-25	1108	X				29	5		
02A	SGP-DUP-01	6L1589	23469		1010		1108					28	5		
03A	SGP-30	6L2322	25179		1023		1123					28	6		
04A	SGP-31-H	6L0831	23547		1045		1145					29	7		
05A	SGP-31	6L2216	23476		1110		1212					30	5		
06A	SGP-32-H	6L2815	23413		1147		1247					27	5		
07A	SGP-32	6L0257	24907		1158		1258					24	5		
08A	SGP-59-H	6L1714	24466	10-14-25	1105	10-14-25	1228					30	20		
09A	SGP-DUP-02	6L1620	24342		1105		1228					29	12		
10A	SGP-59	6L0291	25270		936		1036					30	8		
11A	SGP-33-H	6L0746	23917		1010		1110					28	10		
12A	SGP-33	6L1838	23486		1100		1200					30	6		

Special Instructions/Notes:

	Date	Time		Date	Time
Relinquished by: (Signature/Affiliation)	10/23/25	1300	Received by: (Signature/Affiliation)	10/24/25	0935
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LP
Project Manager: Tom Raymond
Sampler: Logan Hesler

Project Name: Cliffdale LP
Project #: 230504.51 Ph 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	Notify by Tom's Mailbox plus				Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
13A	SGP-49-H	6L0653	23527	10/14/25	1048	10/14/25	1148	X				29	7		
14A	SGP-49	6L0664	24282		1104		1204					30	5		
15A	SGP-34-H	6L0307	24540		1130		1230					30	5		
16A	SGP-34	6L2424	23454		1141		1241					30	6		
17A	SGP-35-H	6L0612	23609	10/15/25	908	10/15/25	1005					29	6		
18A	SGP-0211P-03	6L2657	24065		908		1005					27	6		
19A	SGP-35	6L3062	24036		922		1019					30	5		
20A	SGP-36-H	6L0209	24562		944		1044					29	6		
21A	SGP-36	6L1630	24038		957		1057					28	6		
22A	SGP-37-H	6L2051	23525		1010		1107					28	5		
23A	SGP-37	6L3644	24027		1030		1124					30	5		
24A	SGP-38-H	6L1662	24041		1040		1140					28	6		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No None | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics
Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SHME
Site Name: Cliffdale LF
Project Manager: Tom. Raymond
Sampler: Logan Hesler

Project Name: Cliffdale LF
Project #: Z3050459 Ph. 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	VOCs by TO-15 with modifications				Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
25A	SGP-31	6L2982	23793	10/15/25	1055	10/15/25	1143	X				29	5		
26A	SGP-39-H	6L1725	23487	"	1113	"	1213	"				30	6		
27A	SGP-39	6L0401	23375	"	1131	"	1231	"				30	9		
28A	SGP-51-H	6L2279	23753	10/16/25	945	10/16/25	1045	"				30	4		
29A	SGP-DUP-04	6L1806	23208	"	945	"	1045	"				28	8		
30A	SGP-51	6L0311	23261	"	955	"	1055	"				27	6		
31A	SGP-40-H	6L1804	23307	"	1018	"	1118	"				30	9		
32A	SGP-40	6L0969	24059	"	1026	"	1114	"				29	5		
33A	SGP-41-H	6L2042	24559	"	1053	"	1153	"				30	5		
34A	SGP-41	6L1795	28366	"	1101	"	1201	"				30	5		
35A	SGP-42-H	6L0252	24032	"	1132	"	1232	"				30	8		
36A	SGP-42	6L1070	24906	"	1140	"	1246	"				30	9		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0935
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510657

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SHME
Site Name: Cliffdale LP
Project Manager: Tom. Raymond
Sampler: Logan Hester

Project Name: Cliffdale LP
Project #: 23050159 Ph. 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure			
				Date	Time	Date	Time	VOCs by TO-15 Full Analysis				Initial (in Hg)	Final (in Hg)	Lab Use Only: Receipt (in "Hg)	Lab Use Only: Final (in psi) Gas: N2 / He
37A	SGP-52-H	6L0157	24037	10/17/25	922	10/17/25	1019	X				27	5		
38A	SGP-DUP-05	6L0957	25272		922		1019					30	7		
39A	SGP-52	6L0905	23259		938		1038					29	8		
40A	SGP-53-H	6L0775	24922		1008		1108					30	7		
41A	SGP-53	6L2222	24882		1017		1117					29	8		
42A	SGP-55-H	6L0116	23357		1038		1139					30	5		
43A	SGP-55	6L2226	23718		1050		1150					30	7		
44A	SGP-44-H	6L0157	23681		1113		1213					30	6		
45A	SGP-44	6L0169	22700		1122		1222					30	5		
46A	SGP-50-H	6L2496	23513	10/20/25	913	10/20/25	1013					29	7		
47A	SGP-DUP-06	6L0809	23123		913		1013					27	5		
48A	SGP-50	6L1762	24726		927		1023					29	5		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LF
Project Manager: Tom Raymond
Sampler: Logan Hester

Project Name: TOB Cliffdale LF
Project #: 23050459 Ph. 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	VOCs by TO-15 EPA Modified				Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
49A	SGP-43-H	3011	24295	10/20/25	943	10/20/25	1049	X				29	9		
50A	SGP-43	6L1039	24669		949		1049					26	9		
51A	SGP-45-H	6L2757	23418		1013		1109					30	5		
52A	SGP-45	6L0316	24888		1026		1126					29	8		
53A	SGP-46-H	24482	26804		1046		1146					30	10		
54A	SGP-46	Bulgarian	23155		1053		1153					29	5		
55A	SGP-54-H	6L1756	24100	10/21/25	941	10/21/25	1041					30	7		
56A	SGP-[illegible]P-07	6L0491	23535		941		1041					29	8		
57A	SGP-54	6L0537	23666		956		1056					28	7		
58A	SGP-54-H	6L1179	24546		1014		1114					27	6		
59A	SGP-56	6L3000	24346		1024		1124					30	9		
60A	SGP-58-H	6L2201	24388		1047		1147					29	5		

Special Instructions/Notes:
can ID # for SGP-46 is 6L0241

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	10/23/25	1300	[signature]	10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LF
Project Manager: TOM RAYMOND
Sampler: Logan Nesser

Project Name: Cliffdale LF
Project #: 230501.59 Ph. 16
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses: VOCs by TO-15 full list				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time					Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
61A	SGP-58	6L2738	23151	10/21/25	1100	10/22/25	1155	X				30	5		
62A	SGP-47-H	6L1077	27030	10/22/25	956	10/22/25	1054					29	7		
63A	SGP-DUP-08	6L2094	23310		956		1054					29	4		
64A	SGP-47	6L2159	25319		1042		1112					29	5		
65A	SGP-57-H	6L1211	24741		1027		1127					30	6		
66A	SGP-57	6L0302	23608		1038		1138					29	9		
67A	SGP-48-H	6L1788	24734		1059		1159					30	6		
68A	SGP-48	~~24734~~ 6L0774	23330		1125		1227					23	7		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No None | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics
Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LF
Project Manager: Tom Raymond
Sampler: Logan Hester

Project Name: Cliffdale Landfill
Project #: 230504594 Ph 16
PO#: 230504594 Ph. 16

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	TO15 LL Full List Plus MeOH+Hexane				Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
01A	SGP-30-H	6L0979	23044	10-13-25	1010	10-13-25	1108	X				29	5		
02A	SGP-DUP-01	6L1589	23469		1010		1108					28	5		
03A	SGP-30	6L2322	25179		1023		1123					28	6		
04A	SGP-31-H	6L0831	23547		1045		1145					29	7		
05A	SGP-31	6L2216	23496		1110		1212					30	5		
06A	SGP-32-H	6L2815	23413		1147		1247					27	5		
07A	SGP-32	6L0257	24907		1158		1258					29	5		
08A	SGP-59-H	6L1714	24466	10-14-25	1105	10-14-25	1228					30	20		
09A	SGP-DUP-02	6L1620	24342		1105		1228					29	12		
10A	SGP-59	6L0291	25270		936		1036					30	8		
11A	SGP-33-H	6L0746	23917		1010		1110					28	10		
12A	SGP-33	6L1838	23486		1100		1200					30	6		

Special Instructions/Notes:

	Date	Time		Date	Time
Relinquished by: (Signature/Affiliation)	10/23/25	1300	Received by: (Signature/Affiliation)	10/24/25	0935
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics
Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279 .

Workorder #: 2510650

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: SME
Site Name: Cliffdale LF
Project Manager: Tom Raymond
Sampler: Logan Hesler

Project Name: Cliffdale LF
Project #: 230504.51 Ph 16
" "
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses: VOCs by TO15 plus Methane	Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time		Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
13A	SGP-49-H	6L0653	23527L	10/19/25	1048	10/19/25	1148	X	29	7		
14A	SGP-49	6L0664	24282		1104		1204		30	5		
15A	SGP-34-H	6L0307	24540		1130		1230		30	5		
16A	SGP-34	6L2824	23254		1141		1241		30	6		
17A	SGP-35-H	6L0612	23609	10/15/25	908	10/15/25	1005		29	6		
18A	SGP-DUP-03	6L2657	24065		908		1005		27	6		
19A	SGP-35	6L3062	24036		922		1019		30	5		
20A	SGP-36-H	6L0209	24562		944		1044		29	6		
21A	SGP-36	6L1630	24038		957		1057		28	6		
22A	SGP-37-H	6L2051	23525		1010		1107		28	5		
23A	SGP-37	6L3644	24027		1030		1124		30	5		
24A	SGP-38-H	6L1662	24041		1040		1140		28	6		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/23/25	1300		10/24/25	0938
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No None | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538250
LIMS Reference ID: AD38250
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale LF
Project ID: _Master Project-SMEI60
Customer PO: 23050459
Sales Rep: Jason McDonald
Received: 10/14/2025 10:50
Reported: 10/31/2025 09:27

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-30		**Lims Reference ID:**		**AD38250-01**	**Matrix: Air**			**Sampled:**	**10/13/25 14:40:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/14/25 15:52	10/14/25 15:52	KW	ASTM D5504
Sample: SGP-30-H		**Lims Reference ID:**		**AD38250-02**	**Matrix: Air**			**Sampled:**	**10/13/25 14:30:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/14/25 16:19	10/14/25 16:19	KW	ASTM D5504
Sample: SGP-31		**Lims Reference ID:**		**AD38250-03**	**Matrix: Air**			**Sampled:**	**10/13/25 14:20:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/14/25 16:32	10/14/25 16:32	KW	ASTM D5504
Sample: SGP-31-H		**Lims Reference ID:**		**AD38250-04**	**Matrix: Air**			**Sampled:**	**10/13/25 14:15:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/14/25 16:46	10/14/25 16:46	KW	ASTM D5504
Sample: SGP-32		**Lims Reference ID:**		**AD38250-05**	**Matrix: Air**			**Sampled:**	**10/13/25 14:05:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/14/25 16:59	10/14/25 16:59	KW	ASTM D5504
Sample: SGP-32-H		**Lims Reference ID:**		**AD38250-06**	**Matrix: Air**			**Sampled:**	**10/13/25 14:10:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/14/25 17:13	10/14/25 17:13	KW	ASTM D5504
Sample: SGP-DUP-01		**Lims Reference ID:**		**AD38250-07**	**Matrix: Air**			**Sampled:**	**10/13/25 00:00:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/14/25 17:27	10/14/25 17:27	KW	ASTM D5504

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538250
LIMS Reference ID: AD38250
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale LF
Project ID: _Master Project-SMEI60
Customer PO: 23050459
Sales Rep: Jason McDonald
Received: 10/14/2025 10:50
Reported: 10/31/2025 09:27

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): AD38250

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Tom Raymond / Logan Hester		**Bill To Company:**	**Client ID #:**
Company Name: SdME		**Attention To:**	
Street: 3201 Spring Forest Rd		**Street:**	
City: Raleigh	**State/Province:** NC **Zip/Postal Code:** 27616	**City:**	**State/Province:** **Zip/Postal Code:**
Phone : 919-872-2660 **Fax :**		**Phone:**	**Fax:**
Project Name: Cliffdale LF		**Email Results To:** TRaymond@sdmeinc.com	**U.S. State where Samples Collected:** NC
# Samples in Shipment: 7	**Date of Shipment:** 10/13/25	**Purchase Order:** 2305049	**Sampled By (Signature):** / Logan Hester

Turnaround Time (TAT) – Please Check: If No Selection Made, Standard 2 Week TAT Will Apply

☐ 2 Week ☐ 1 Week ☐ 4 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Other (Call Lab)

Media Type:

Manufacturer/Part #: **Lot #:**

Client Sample ID	Sample Date	~~Location~~ Plume	~~Description~~	Sample Type	Flow (lpm)	Sample Time On	Sample Time Off	Air Volume	Analyte Name	Media	Comments
SGP-30	10/13/25			☐ Area ☐ Personal		1440			ASTM D5504	Air	Low Level H_2S
SGP-30-H				☐ Area ☐ Personal		1430					
SGP-31				☐ Area ☐ Personal		1420					
SGP-31-H				☐ Area ☐ Personal		1415					
SGP-32				☐ Area ☐ Personal		1405					
SGP-32-H				☐ Area ☐ Personal		1410					
SGP-DUP-01				☐ Area ☐ Personal							
				☐ Area ☐ Personal							

RECEIVED EMSL CINNAMINSON, NJ 2025 OCT 14 A 10:40

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
	10-13-25		10/14/25 10:50

Comments: ASTM D5504 - Low Level H_2S

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538543
LIMS Reference ID: AD38543
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill-23050459- Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/16/2025 10:45
Reported: 10/31/2025 09:34

Analytical Results

Compound	Weight ()	Results (ppbv)	Q	RL (ppbv)	Area/Volume (mL)	DF	Analysis Date & Analyst
Client Sample ID: SGP-35-H **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-01**
Hydrogen Sulfide	11	**11**		10	2	1	10/16/25 KW
Client Sample ID: SGP-35 **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-02**
Hydrogen Sulfide	57000	**57000**		10	2	1	10/16/25 KW
Client Sample ID: SGP-36-H **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-03**
Hydrogen Sulfide	20	**20**		10	2	1	10/16/25 KW
Client Sample ID: SGP-36 **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-04**
Hydrogen Sulfide	< 10	<10		10	2	1	10/16/25 KW
Client Sample ID: SGP-37-H **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-05**
Hydrogen Sulfide	< 10	<10		10	2	1	10/16/25 KW
Client Sample ID: SGP-37 **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-06**
Hydrogen Sulfide	35000	**35000**		10	2	1	10/16/25 KW
Client Sample ID: SGP-38-H **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-07**
Hydrogen Sulfide	12	**12**		10	2	1	10/16/25 KW
Client Sample ID: SGP-38 **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-08**
Hydrogen Sulfide	< 10	<10		10	2	1	10/16/25 KW
Client Sample ID: SGP-39-H **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-09**
Hydrogen Sulfide	< 10	<10		10	2	1	10/16/25 KW
Client Sample ID: SGP-39 **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-10**
Hydrogen Sulfide	< 10	<10		10	2	1	10/16/25 KW
Client Sample ID: SGP-DUP-03 **Analysis:**ASTM D5504 **Matrix: Air**							**Date Sampled: 10/15/25** **LIMS Reference ID: AD38543-11**
Hydrogen Sulfide	< 10	<10		10	2	1	10/16/25 KW

Results are not blank corrected

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538543
LIMS Reference ID: AD38543
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill-23050459- Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/16/2025 10:45
Reported: 10/31/2025 09:34

Analysis Case Narrative

Method Reference
ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence, ASTM International, West Conshohocken, PA, 2012,

Column
Agilent DB-Sulfur SCD, 70m x 0.53mm ID x 4.3µm

Concentrator Traps:
2.0 cc Loop

Gas Standards:
Certified Gas standards were used for all analyses.

Sample Volumes:
Sample volume aliquots for this procedure is 2.0 cc by loop injection.

Sampling Pressures:
All samples were received at acceptable pressure/vacuum unless listed below.

Holding Times:
All holding times were met.

Sample Pressures:
All samples received in summa canisters were sightly pressurized with UHP diluent and transferred to tedlar bags prior to analysis.

Sample Pressures:

Initial Calibration:
All acceptance criteria were met.

Initial Calibration Verification Standard (ICVS)- Second Source:
All acceptance criteria were met.

Laboratory Control Samples (LCS):
All acceptance criteria were met.

Continuing Calibration Verification Standard (CCVS):
All acceptance criteria were met.

Method Blanks (MB):
All acceptance criteria were met.

Sample Duplicate:
All acceptance criteria were met.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538543
LIMS Reference ID: AD38543
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill-23050459- Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/16/2025 10:45
Reported: 10/31/2025 09:34

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. QC sample results are within quality control criteria and met method specifications unless otherwise noted. All results for soil samples are reported on a dry weight basis, unless otherwise noted.

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

EMSL Order Number / Lab Use Only: A038543

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: EnvChemistry@EMSL.com

RECEIVED EMSL CINNAMINSON, N.J. 2025 OCT 16 A 11:02

Customer Information

Customer ID:	
Company Name:	S&ME
Contact Name:	Tom Raymond
Street Address:	3201 Spring Forest Rd
City, State, Zip:	Raleigh, NC 27616
Country:	US
Phone:	919-801-5359 / 919-872-2660
Email(s) for Report:	traymond@smeinc.com ; lhester@smeinc.com

Billing Information

Billing ID:	
Company Name:	
Billing Contact:	
Street Address:	
City, State, Zip:	
Country:	
Phone:	
Email(s) for Invoice:	

Project Name/No: Cliffdale Landfill - 23050459 Ph. 16

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NC

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☐ Yes ☐ No — If Yes, for NPDES? ☐ Yes ☐ No — Other (Specify)

PWS ID:

State Reporting Required? ☐ Yes ☐ No

Samples Collected by (Check One): ☐ EMSL ☑ CLIENT

Samples Received Chilled? ☐ ☐ No

Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Logan Hester

Sampled By Signature:

Sampler ID#: (If applicable)

No. Samples in Shipment:

Turn-Around-Time (TAT)

Standard Turn-Around-Time: ☒ 2 Weeks

The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-35-H	☐	☐	10-15-25 1455	A		X								Low Level H2S
SGP-35	☐	☐	1500			X								
SGP-36-H	☐	☐	1435			X								
SGP-36	☐	☐	1440	1		2								1

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Fx 7919 8649 5380

Reporting requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other

Method of Shipment:

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by: See Page 2	Date/Time:	Received by:	Date/Time: 10/16/25 1141
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.
Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

11

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event Chain of Custody

AD38543 EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, B=Boil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other, Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-37-H	☐	☐	10-15-25 1430	A		X								Low Level H_2S
SGP-37	☐	☐	1435			X								
SGP-38-H	☐	☐	1415			X								
SGP-38	☐	☐	1420			X								
SGP-39-H	☐	☐	1400			X								
SGP-39	☐	☐	1405			X								
SGP-DUP-03	☐	☐		A		X								
	☐	☐												
	☐	☐												

RECEIVED EMSL CINNAMINSON, N.J. 2025 OCT 16 A 11:02

Method of Shipment: FedEx Priority Overnight

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by: [signature] Date/Time: 10-15-25

Received by: Angie ONeill EFX Date/Time 10/16/25 1045

Relinquished by: Date/Time:

Received by: [signature] Date/Time 10/16/25 1141

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538543
LIMS Reference ID: AD38543
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill-23050459- Ph. 16
Project ID: _Master Project-SMEI60
Customer PO:
Sales Rep: Jason McDonald
Received: 10/16/2025 10:45
Reported: 10/31/2025 09:35

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-35-H		**Lims Reference ID:**		**AD38543-01**	**Matrix: Air**				**Sampled: 10/15/25 14:55:00**
Air Toxics									
Hydrogen Sulfide	**11**		1	10	ppbv	10/16/25 16:33	10/16/25 16:33	KW	ASTM D5504
Sample: SGP-35		**Lims Reference ID:**		**AD38543-02**	**Matrix: Air**				**Sampled: 10/15/25 15:00:00**
Air Toxics									
Hydrogen Sulfide	**57000**		1	10	ppbv	10/16/25 16:48	10/16/25 16:48	KW	ASTM D5504
Sample: SGP-36-H		**Lims Reference ID:**		**AD38543-03**	**Matrix: Air**				**Sampled: 10/15/25 14:35:00**
Air Toxics									
Hydrogen Sulfide	**20**		1	10	ppbv	10/16/25 17:04	10/16/25 17:04	KW	ASTM D5504
Sample: SGP-36		**Lims Reference ID:**		**AD38543-04**	**Matrix: Air**				**Sampled: 10/15/25 14:40:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/16/25 17:19	10/16/25 17:19	KW	ASTM D5504
Sample: SGP-37-H		**Lims Reference ID:**		**AD38543-05**	**Matrix: Air**				**Sampled: 10/15/25 14:30:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/16/25 17:34	10/16/25 17:34	KW	ASTM D5504
Sample: SGP-37		**Lims Reference ID:**		**AD38543-06**	**Matrix: Air**				**Sampled: 10/15/25 14:35:00**
Air Toxics									
Hydrogen Sulfide	**35000**		1	10	ppbv	10/16/25 18:05	10/16/25 18:05	KW	ASTM D5504
Sample: SGP-38-H		**Lims Reference ID:**		**AD38543-07**	**Matrix: Air**				**Sampled: 10/15/25 14:15:00**
Air Toxics									
Hydrogen Sulfide	**12**		1	10	ppbv	10/16/25 18:20	10/16/25 18:20	KW	ASTM D5504
Sample: SGP-38		**Lims Reference ID:**		**AD38543-08**	**Matrix: Air**				**Sampled: 10/15/25 14:20:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/16/25 18:36	10/16/25 18:36	KW	ASTM D5504
Sample: SGP-39-H		**Lims Reference ID:**		**AD38543-09**	**Matrix: Air**				**Sampled: 10/15/25 14:00:00**
Air Toxics									

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538543
LIMS Reference ID: AD38543
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill-23050459- Ph. 16
Project ID: _Master Project-SMEI60
Customer PO:
Sales Rep: Jason McDonald
Received: 10/16/2025 10:45
Reported: 10/31/2025 09:35

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-39-H (Continued)		**Lims Reference ID:**		**AD38543-09**	**Matrix: Air**				**Sampled: 10/15/25 14:00:00**
Air Toxics (Continued)									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/16/25 18:50	10/16/25 18:50	KW	ASTM D5504
Sample: SGP-39		**Lims Reference ID:**		**AD38543-10**	**Matrix: Air**				**Sampled: 10/15/25 14:05:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/16/25 19:05	10/16/25 19:05	KW	ASTM D5504
Sample: SGP-DUP-03		**Lims Reference ID:**		**AD38543-11**	**Matrix: Air**				**Sampled: 10/15/25 00:00:00**
Air Toxics									
Hydrogen Sulfide	**ND**		1	10	ppbv	10/16/25 19:20	10/16/25 19:20	KW	ASTM D5504

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538543
LIMS Reference ID: AD38543
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill-23050459- Ph. 16
Project ID: _Master Project-SMEI60
Customer PO:
Sales Rep: Jason McDonald
Received: 10/16/2025 10:45
Reported: 10/31/2025 09:35

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

EMSL Order Number / Lab Use Only: A038543

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: EnvChemistry@EMSL.com

RECEIVED EMSL CINNAMINSON, N.J. 2025 OCT 16 A 11:02

Customer Information

Customer ID:	
Company Name:	S&ME
Contact Name:	Tom Raymond
Street Address:	3201 Spring Forest Rd
City, State, Zip:	Raleigh, NC 27616
Country:	US
Phone:	919-801-5359 / 919-872-2660
Email(s) for Report:	traymond@smeinc.com ; lhester@smeinc.com

Billing Information

Billing ID:	
Company Name:	
Billing Contact:	
Street Address:	
City, State, Zip:	
Country:	
Phone:	
Email(s) for Invoice:	

Project Name/No: Cliffdale Landfill - 23050459 Ph. 16

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NC

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☐ Yes ☐ No — If Yes, for NPDES? ☐ Yes ☐ No — Other (Specify)

PWS ID:

State Reporting Required? ☐ Yes ☐ No

Samples Collected by (Check One): ☐ EMSL ☑ CLIENT

Samples Received Chilled? ☐ ☐ No

Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Logan Hester

Sampled By Signature:

Sampler ID#: (If applicable)

No. Samples in Shipment:

Turn-Around-Time (TAT)

Standard Turn-Around-Time: ☒ 2 Weeks

The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-35-H	☐	☐	10-15-25 1455	A		X								Low Level H2S
SGP-35	☐	☐	1500			X								
SGP-36-H	☐	☐	1435			X								
SGP-36	☐	☐	1440	1		2								1

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Fx 7919 8649 5380

Reporting requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other

Method of Shipment:

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by: See Page 2	Date/Time:	Received by:	Date/Time: 10/16/25 1141
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.
Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

11

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event Chain of Custody

AD38543 EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, B=Boil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other, Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-37-H	☐	☐	10-15-25 1430	A		X								Low Level H_2S
SGP-37	☐	☐	1435			X								
SGP-38-H	☐	☐	1415			X								
SGP-38	☐	☐	1420			X								
SGP-39-H	☐	☐	1400			X								
SGP-39	☐	☐	1405			X								
SGP-DUP-03	☐	☐		A		X								
	☐	☐												
	☐	☐												

RECEIVED EMSL CINNAMINSON, N.J. 2025 OCT 16 A 11:02

Method of Shipment: FedEx Priority Overnight

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by: [signature] Date/Time: 10-15-25

Received by: Angie ONeill EFX Date/Time 10/16/25 1045

Relinquished by: Date/Time:

Received by: [signature] Date/Time 10/16/25 1141

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538681
LIMS Reference ID: AD38681
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AD38681-01	SGP-51	Air	10/16/2025	10/17/2025
AD38681-02	SGP-51-H	Air	10/16/2025	10/17/2025
AD38681-03	SGP-40	Air	10/16/2025	10/17/2025
AD38681-04	SGP-40-H	Air	10/16/2025	10/17/2025
AD38681-05	SGP-41	Air	10/16/2025	10/17/2025
AD38681-06	SGP-41-H	Air	10/16/2025	10/17/2025
AD38681-07	SGP-42	Air	10/16/2025	10/17/2025
AD38681-08	SGP-42-H	Air	10/16/2025	10/17/2025
AD38681-09	SGP-DUO-04	Air	10/16/2025	10/17/2025

Owen McKenna Laboratory Manager or other approved signatory

Test results meet all NELAP requirements unless otherwise specified. NJDEP Certification #: 03036

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

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Analysis Case Narrative

Method Reference
ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence, ASTM International, West Conshohocken, PA, 2012,

Column
Agilent DB-Sulfur SCD, 70m x 0.53mm ID x 4.3µm

Concentrator Traps:
2.0 cc Loop

Gas Standards:
Certified Gas standards were used for all analyses.

Sample Volumes:
Sample volume aliquots for this procedure is 2.0 cc by loop injection.

Sampling Pressures:
All samples were received at acceptable pressure/vacuum unless listed below.

Holding Times:
All holding times were met.

Sample Pressures:
All samples received in summa canisters were sightly pressurized with UHP diluent and transferred to tedlar bags prior to analysis.

Sample Pressures:

Initial Calibration:
All acceptance criteria were met.

Initial Calibration Verification Standard (ICVS)- Second Source:
All acceptance criteria were met.

Laboratory Control Samples (LCS):
All acceptance criteria were met.

Continuing Calibration Verification Standard (CCVS):
All acceptance criteria were met.

Method Blanks (MB):
All acceptance criteria were met.

Sample Duplicate:
All acceptance criteria were met.

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EMSL Analytical, Inc. certifies that this data package is in compliance with the terme and conditions of this contract, both technically and for completeness, for other thatn the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer ---readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature

Owen McKenna Laboratory Manager or other approved signatory

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traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-01
Customer Sample ID: SGP-51
Collected: 10/16/2025 14:15
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 14:17	BDJ1988	R1463.D	SGP-51	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 14:17	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

Agency Definitions

OSHA= Occupational Safety and Health Administration
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ACGIH=American Conference of Governmental Industrial Hygienistsn

Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

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LIMS Reference ID: AD38681
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(919) 872-2660
traymond@smeinc.com

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Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-02
Customer Sample ID: SGP-51-H

Collected: 10/16/2025 14:10
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 14:31	BDJ1988	R1464.D	SGP-51-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 14:31	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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EMSL-CIN-01

EMSL Order ID: 012538681
LIMS Reference ID: AD38681
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-03
Customer Sample ID: SGP-40
Collected: 10/16/2025 14:35
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 14:45	BDJ1988	R1465.D	SGP-40	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 14:45	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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EMSL Analytical, Inc.

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EMSL-CIN-01

EMSL Order ID: 012538681
LIMS Reference ID: AD38681
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-04
Customer Sample ID: SGP-40-H

Collected: 10/16/2025 14:30
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 15:00	BDJ1988	R1466.D	SGP-40-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 15:00	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-05
Customer Sample ID: SGP-41
Collected: 10/16/2025 14:50
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 15:15	BDJ1988	R1467.D	SGP-41	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 15:15	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-06
Customer Sample ID: SGP-41-H
Collected: 10/16/2025 14:45
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 15:29	BDJ1988	R1468.D	SGP-41-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 15:29	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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LIMS Reference ID: AD38681
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
Raleigh, NC 27616
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traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-07
Customer Sample ID: SGP-42
Collected: 10/16/2025 15:00
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 15:59	BDJ1988	R1470.D	SGP-42	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 15:59	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012538681
LIMS Reference ID: AD38681
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-08
Customer Sample ID: SGP-42-H

Collected: 10/16/2025 14:55
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 16:14	BDJ1988	R1471.D	SGP-42-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 16:14	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

Agency Definitions

OSHA= Occupational Safety and Health Administration
NIOSH=National Institute for Occupational Safety and Health
ACGIH=American Conference of Governmental Industrial Hygienistsn

Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

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EMSL Order ID: 012538681
LIMS Reference ID: AD38681
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

EMSL Sample ID: AD38681-09
Customer Sample ID: SGP-DUO-04
Collected: 10/16/2025 00:00
Received: 10/17/2025 09:25

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/17/25 16:29	BDJ1988	R1472.D	SGP-DUO-04	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/17/25 16:29	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

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REL=Recommended Exposure Limit NE= Not established

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EMSL-CIN-01

EMSL Order ID: 012538681
LIMS Reference ID: AD38681
EMSL Customer ID: SMEI60

Attention: Tom Raymond
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Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/17/2025 09:25
Reported: 10/31/2025 15:12

Notes and Definitions

Item	Definition
ND	Non Detect. This notation would be used in the results column in lieu of a "U" qualifier.
U	Compound was analyzed for but not detected at a listed and appropriately adjusted reporting level.
J(Target)	Concentration estimated between Reporting Limit and MDL.
J	Estimated value reported below adjusted reporting limit for target compounds or estimating a concentration for TICs where a 1:1 response is assumed
B	Compound found in associated method blank as well as in the sample.
E	Estimated value exceeding upper calibration range of instrument. Ethanol and isopropyl alcohol are not specifically targeted to dilute within calibration range.
D	Compound reported from additional diluted analysis.
N	indicates presumptive evidence of a compound based on library search match.

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event Chain of Custody

AD 38681 EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

RECEIVED EMSL CINNAMINSON, N.J.
2025 OCT 17 A 11:11

Customer Information

Customer ID:	
Company Name:	S&ME
Contact Name:	Tom Raymond
Street Address:	3201 Spring Forest Rd
City, State, Zip:	Raleigh, NC 27616
Country:	US
Phone:	919-801-5359 / 919-872-2660
Email(s) for Report:	traymond@smeinc.com ; lhester@smeinc.com

Billing Information

Billing ID:	
Company Name:	SAME
Billing Contact:	
Street Address:	
City, State, Zip:	
Country:	
Phone:	
Email(s) for Invoice:	

Project Name/No: Cliffdale Landfill - 23050459 Ph. 16

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NC

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☐ Yes ☐ No If Yes, for NPDES? ☐ Yes ☐ No

Other (Specify)

PWS ID:

State Reporting Required? ☐ Yes ☐ No

Samples Collected by (Check One): ☐ EMSL ☑ CLIENT

Samples Received Chilled? ☐ ☐ No

Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Logan Hester

Sampled By Signature:

Sampler ID#: (If applicable)

No. Samples in Shipment: 9

Turn-Around-Time (TAT)

Standard Turn-Around-Time: ☒ 2 Weeks

The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-51	☐	☐	10-16-25 1145	A		X								Low Level H2S
SGP-51-H	☐	☐	1410	1		X								1
SGP-40	☐	☐	1435			X								
SGP-40-H	☐	☐	1430			X								

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

24-hr hold

Reporting requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other

Method of Shipment:

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by: Date/Time: 10-16-25

Received by: EEX 7919 8845 2873 Date/Time 10/17/25 925

Relinquished by: Date/Time:

Received by: Date/Time

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

9

10/17/25 1150

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

AD38681 EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

24-hr hold

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other, Describe below in Special Instructions)	List Test(s) Needed: (Write In test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-41	☐	☒	10-16-25 1450	A		X								Low level H_2S
SGP-41-H	☐	☒	1445			X								
SGP-42	☐	☒	1500			X								
SGP-42-H	☐	☒	1455			X								
SGP-DUP-04	☐	☒				X								
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												

RECEIVED EMSL CINNAMINSON, N.J. 2025 OCT 17 A 11:12

Method of Shipment: FedEX Priority Overnight

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by:	Date/Time: 10-16-25	Received by: AD	Date/Time 10/17/25
Relinquished by:	Date/Time:	Received by:	Date/Time 10/17/25 / 1150

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.
Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AD39013-01	SGP-53-H	Air	10/20/2025	10/21/2025
AD39013-02	SGP-53	Air	10/20/2025	10/21/2025
AD39013-03	SGP-52-H	Air	10/20/2025	10/21/2025
AD39013-04	SGP-52	Air	10/20/2025	10/21/2025
AD39013-05	SGP-55-H	Air	10/20/2025	10/21/2025
AD39013-06	SGP-55	Air	10/20/2025	10/21/2025
AD39013-07	SGP-44-H	Air	10/20/2025	10/21/2025
AD39013-08	SGP-44	Air	10/20/2025	10/21/2025
AD39013-09	SGP-50-H	Air	10/20/2025	10/21/2025
AD39013-10	SGP-50	Air	10/20/2025	10/21/2025
AD39013-11	SGP-43-H	Air	10/20/2025	10/21/2025
AD39013-12	SGP-43	Air	10/20/2025	10/21/2025
AD39013-13	SGP-45-H	Air	10/20/2025	10/21/2025
AD39013-14	SGP-45	Air	10/20/2025	10/21/2025
AD39013-15	SGP-46-H	Air	10/20/2025	10/21/2025
AD39013-16	SGP-46	Air	10/20/2025	10/21/2025
AD39013-17	SGP-DUP-06	Air	10/20/2025	10/21/2025

Owen McKenna Laboratory Manager or other approved signatory

Test results meet all NELAP requirements unless otherwise specified. NJDEP Certification #: 03036

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

EMSL Analytical, Inc.
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Telephone: 856-858-4800 Fax:cs@emsl.com
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S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
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traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

Analysis Case Narrative

Method Reference
ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence, ASTM International, West Conshohocken, PA, 2012,

Column
Agilent DB-Sulfur SCD, 70m x 0.53mm ID x 4.3µm

Concentrator Traps:
2.0 cc Loop

Gas Standards:
Certified Gas standards were used for all analyses.

Sample Volumes:
Sample volume aliquots for this procedure is 2.0 cc by loop injection.

Sampling Pressures:
All samples were received at acceptable pressure/vacuum unless listed below.

Holding Times:
All holding times were met.

Sample Pressures:
All samples received in summa canisters were sightly pressurized with UHP diluent and transferred to tedlar bags prior to analysis.

Sample Pressures:

Initial Calibration:
All acceptance criteria were met.

Initial Calibration Verification Standard (ICVS)- Second Source:
All acceptance criteria were met.

Laboratory Control Samples (LCS):
All acceptance criteria were met.

Continuing Calibration Verification Standard (CCVS):
All acceptance criteria were met.

Method Blanks (MB):
All acceptance criteria were met.

Sample Duplicate:
All acceptance criteria were met.

EMSL Analytical, Inc.

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EMSL Analytical, Inc. certifies that this data package is in compliance with the terme and conditions of this contract, both technically and for completeness, for other thatn the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer ---readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature

Owen McKenna Laboratory Manager or other approved signatory

EMSL Analytical, Inc.

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-01
Customer Sample ID: SGP-53-H
Collected: 10/20/2025 14:15
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 17:43	BDJ2357	R1482.D	SGP-53-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 17:43	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

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Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

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LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-02
Customer Sample ID: SGP-53
Collected: 10/20/2025 14:20
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 17:57	BDJ2357	R1483.D	SGP-53	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 17:57	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference
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2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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REL=Recommended Exposure Limit NE= Not established

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LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-03
Customer Sample ID: SGP-52-H
Collected: 10/20/2025 14:45
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 18:10	BDJ2357	R1484.D	SGP-52-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 18:10	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-04
Customer Sample ID: SGP-52
Collected: 10/20/2025 14:50
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 18:23	BDJ2357	R1485.D	SGP-52	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 18:23	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

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EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
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(919) 872-2660
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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-05
Customer Sample ID: SGP-55-H
Collected: 10/20/2025 14:05
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 18:38	BDJ2357	R1486.D	SGP-55-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 18:38	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-06
Customer Sample ID: SGP-55
Collected: 10/20/2025 14:10
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 18:52	BDJ2357	R1487.D	SGP-55	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 18:52	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-07
Customer Sample ID: SGP-44-H
Collected: 10/20/2025 13:55
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 19:05	BDJ2357	R1488.D	SGP-44-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 19:05	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-08
Customer Sample ID: SGP-44
Collected: 10/20/2025 14:00
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 19:19	BDJ2357	R1489.D	SGP-44	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 19:19	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-09
Customer Sample ID: SGP-50-H
Collected: 10/20/2025 15:00
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 19:46	BDJ2357	R1491.D	SGP-50-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 19:46	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-10
Customer Sample ID: SGP-50
Collected: 10/20/2025 15:05
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 20:00	BDJ2357	R1492.D	SGP-50	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 20:00	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-11
Customer Sample ID: SGP-43-H
Collected: 10/20/2025 14:35
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 20:28	BDJ2357	R1494.D	SGP-43-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 20:28	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
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traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-12
Customer Sample ID: SGP-43
Collected: 10/20/2025 14:40
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 20:42	BDJ2357	R1495.D	SGP-43	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 20:42	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

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(919) 872-2660
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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-13
Customer Sample ID: SGP-45-H
Collected: 10/20/2025 13:50
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 20:56	BDJ2357	R1496.D	SGP-45-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 20:56	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

Agency Definitions

OSHA= Occupational Safety and Health Administration
NIOSH=National Institute for Occupational Safety and Health
ACGIH=American Conference of Governmental Industrial Hygienistsn

Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-14
Customer Sample ID: SGP-45
Collected: 10/20/2025 13:45
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 21:10	BDJ2357	R1497.D	SGP-45	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 21:10	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

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Method Reference

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Exposure Limit Definitions

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REL=Recommended Exposure Limit NE= Not established

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Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-15
Customer Sample ID: SGP-46-H
Collected: 10/20/2025 13:35
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 21:25	BDJ2357	R1498.D	SGP-46-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 21:25	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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3 MSDS sheet, www.arkema-inc.com

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REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

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Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-16
Customer Sample ID: SGP-46
Collected: 10/20/2025 13:40
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 21:39	BDJ2357	R1499.D	SGP-46	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 21:39	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

EMSL Sample ID: AD39013-17
Customer Sample ID: SGP-DUP-06
Collected: 10/20/2025 00:00
Received: 10/21/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/21/25 21:53	BDJ2357	R1500.D	SGP-DUP-06	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/21/25 21:53	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

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NIOSH=National Institute for Occupational Safety and Health
ACGIH=American Conference of Governmental Industrial Hygienistsn

Method Reference

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Exposure Limit Definitions

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REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539013
LIMS Reference ID: AD39013
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/21/2025 09:30
Reported: 11/05/2025 16:33

Notes and Definitions

Item	Definition
ND	Non Detect. This notation would be used in the results column in lieu of a "U" qualifier.
U	Compound was analyzed for but not detected at a listed and appropriately adjusted reporting level.
J(Target)	Concentration estimated between Reporting Limit and MDL.
J	Estimated value reported below adjusted reporting limit for target compounds or estimating a concentration for TICs where a 1:1 response is assumed
B	Compound found in associated method blank as well as in the sample.
E	Estimated value exceeding upper calibration range of instrument. Ethanol and isopropyl alcohol are not specifically targeted to dilute within calibration range.
D	Compound reported from additional diluted analysis.
N	indicates presumptive evidence of a compound based on library search match.

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

EMSL Order Number / Lab Use Only: AD39013

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

RECEIVED EMSL CINNAMINSON NJ 2025 OCT 21 A 9:51

Customer Information

Customer ID:
Company Name: S&ME
Contact Name: Tom Raymond
Street Address: 3201 Spring Forest Rd
City, State, Zip: Raleigh, NC 27616 Country: US
Phone: 919-801-5359 / 919-872-2660
Email(s) for Report: traymond@smeinc.com ; lhester@smeinc.com

Billing Information

Billing ID:
Company Name: SAME
Billing Contact:
Street Address:
City, State, Zip: Country:
Phone:
Email(s) for Invoice:

Project Name/No: Cliffdale Landfill - 23050459 Ph. 16
Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: NC
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☐ Yes ☐ No If Yes, for NPDES? ☐ Yes ☐ No
Other (Specify)
PWS ID:
State Reporting Required? ☐ Yes ☐ No

Samples Collected by (Check One): ☐ EMSL ☑ CLIENT
Samples Received Chilled? ☐ ☐ No
Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Logan Hester
Sampled By Signature:
Sampler ID#: (if applicable)
No. Samples in Shipment: 17

Turn-Around-Time (TAT)

Standard Turn-Around-Time: ☒ 2 Weeks
The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other, Describe below in Special Instructions)	List Test(s) Needed: Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-53-H	☐	☒	10-20-25 1415	A		X								Low Level H2S
SGP-53	☐	☒	1420	↓		X								↓
SGP-52-H	☐	☒	1445			X								
SGP-52	☐	☒	1450			X								

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)
low level H2S by ASTM D5504 - 24 hr hold

Reporting requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other

Method of Shipment: FedEx Priority Overnight
Sample Condition Upon Receipt:
Received on Ice? Check if Yes ☐

Relinquished by:
Date/Time: 10-20-25
Received by: Stanley E-FX
Date/Time 10/21/25 0950

Relinquished by: Stanley
Date/Time: 10/21/25
Received by:
Date/Time

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.
Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

17 SAH

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

EMSL Order Number / Lab Use Only
AD39013

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

RECEIVED
EMSL
CINNAMINSON, NJ
2025 OCT 21 A 9:51

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other, Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-55-H	☐	☒	10-20-25 1405	A		X								Low Level H_2S
SGP-55	☐	☒	1410			X								
SGP-44-H	☐	☒	1355			X								
SGP-44	☐	☒	1400			X								
SGP-50-H	☐	☒	1500			X								
SGP-50	☐	☒	1505			X								
SGP-43-H	☐	☒	1435			X								
SGP-43	☐	☒	1440			X								
SGP-45-H	☐	☒	1350			X								

Method of Shipment: FedEx Priority Overnight

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by:	Date/Time:	Received by:	Date/Time
	10-20-25		
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

EMSL Order Number / Lab Use Only
AD39013

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

RECEIVED
EMSL
CINNAMINSON, NJ
2025 OCT 21 A 9:51

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-45	☐	☒	10-20-25 1345	A		X								Low Level H_2S
SGP-46-H	☐	☒	1335			X								
SGP-46	☐	☒	1340			X								
SGP-DUP-06	☐	☒	"	"		X								
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												

Method of Shipment: FedEx Priority Overnight

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by:	Date/Time:	Received by:	Date/Time
	10.20.25		
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AD39140-01	SGP-54-H	Air	10/21/2025	10/22/2025
AD39140-02	SGP-54	Air	10/21/2025	10/22/2025
AD39140-03	SGP-56-H	Air	10/21/2025	10/22/2025
AD39140-04	SGP-56	Air	10/21/2025	10/22/2025
AD39140-05	SGP-58-H	Air	10/21/2025	10/22/2025
AD39140-06	SGP-58	Air	10/21/2025	10/22/2025
AD39140-07	SGP-DUP-07	Air	10/21/2025	10/22/2025

Owen McKenna Laboratory Manager or other approved signatory

Test results meet all NELAP requirements unless otherwise specified. NJDEP Certification #: 03036

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

EMSL Analytical, Inc.
200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

Analysis Case Narrative

Method Reference
ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence, ASTM International, West Conshohocken, PA, 2012,

Column
Agilent DB-Sulfur SCD, 70m x 0.53mm ID x 4.3µm

Concentrator Traps:
2.0 cc Loop

Gas Standards:
Certified Gas standards were used for all analyses.

Sample Volumes:
Sample volume aliquots for this procedure is 2.0 cc by loop injection.

Sampling Pressures:
All samples were received at acceptable pressure/vacuum unless listed below.

Holding Times:
All holding times were met.

Sample Pressures:
All samples received in summa canisters were sightly pressurized with UHP diluent and transferred to tedlar bags prior to analysis.

Sample Pressures:

Initial Calibration:
All acceptance criteria were met.

Initial Calibration Verification Standard (ICVS)- Second Source:
All acceptance criteria were met.

Laboratory Control Samples (LCS):
All acceptance criteria were met.

Continuing Calibration Verification Standard (CCVS):
All acceptance criteria were met.

Method Blanks (MB):
All acceptance criteria were met.

Sample Duplicate:
All acceptance criteria were met.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Analytical, Inc. certifies that this data package is in compliance with the terme and conditions of this contract, both technically and for completeness, for other thatn the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer ---readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature

Owen McKenna Laboratory Manager or other approved signatory

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traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Sample ID: AD39140-01
Customer Sample ID: SGP-54-H
Collected: 10/21/2025 14:05
Received: 10/22/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/22/25 15:50	BDJ2594	R1505.D	SGP-54-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/22/25 15:50	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

Agency Definitions

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ACGIH=American Conference of Governmental Industrial Hygienistsn

Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

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EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Sample ID: AD39140-02
Customer Sample ID: SGP-54
Collected: 10/21/2025 14:10
Received: 10/22/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/22/25 16:19	BDJ2594	R1507.D	SGP-54	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/22/25 16:19	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Sample ID: AD39140-03
Customer Sample ID: SGP-56-H
Collected: 10/21/2025 14:20
Received: 10/22/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/22/25 16:33	BDJ2594	R1508.D	SGP-56-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/22/25 16:33	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Sample ID: AD39140-04
Customer Sample ID: SGP-56
Collected: 10/21/2025 14:25
Received: 10/22/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/22/25 16:48	BDJ2594	R1509.D	SGP-56	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/22/25 16:48	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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Method Reference

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Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

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EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Sample ID: AD39140-05
Customer Sample ID: SGP-58-H

Collected: 10/21/2025 14:30
Received: 10/22/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/22/25 17:02	BDJ2594	R1510.D	SGP-58-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/22/25 17:02	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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EMSL Analytical, Inc.

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EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Sample ID: AD39140-06
Customer Sample ID: SGP-58
Collected: 10/21/2025 14:35
Received: 10/22/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/22/25 17:16	BDJ2594	R1511.D	SGP-58	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/22/25 17:16	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

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Raleigh, NC 27616
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traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

EMSL Sample ID: AD39140-07
Customer Sample ID: SGP-DUP-07
Collected: 10/21/2025 00:00
Received: 10/22/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/22/25 17:30	BDJ2594	R1512.D	SGP-DUP-07	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/22/25 17:30	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL-CIN-01

EMSL Order ID: 012539140
LIMS Reference ID: AD39140
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
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(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/22/2025 09:30
Reported: 11/05/2025 16:38

Notes and Definitions

Item	Definition
ND	Non Detect. This notation would be used in the results column in lieu of a "U" qualifier.
U	Compound was analyzed for but not detected at a listed and appropriately adjusted reporting level.
J(Target)	Concentration estimated between Reporting Limit and MDL.
J	Estimated value reported below adjusted reporting limit for target compounds or estimating a concentration for TICs where a 1:1 response is assumed
B	Compound found in associated method blank as well as in the sample.
E	Estimated value exceeding upper calibration range of instrument. Ethanol and isopropyl alcohol are not specifically targeted to dilute within calibration range.
D	Compound reported from additional diluted analysis.
N	indicates presumptive evidence of a compound based on library search match.

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

AD39140 EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

RECEIVED
EMSL
CINNAMINSON, NJ
2025 OCT 22 A 9:47

Customer Information

Customer ID:	
Company Name:	S&ME
Contact Name:	Tom Raymond
Street Address:	3201 Spring Forest Rd
City, State, Zip:	Raleigh, NC 27616
Country:	US
Phone:	919-801-5359 / 919-872-2660
Email(s) for Report:	traymond@smeinc.com ; lhester@smeinc.com

Billing Information

Billing ID:	
Company Name:	
Billing Contact:	
Street Address:	
City, State, Zip:	
Country:	
Phone:	
Email(s) for Invoice:	

Project Name/No: Cliffdale Landfill - 23050459 Ph. 16

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NC

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☐ Yes ☐ No — If Yes, for NPDES? ☐ Yes ☐ No

Other (Specify)

PWS ID:

State Reporting Required? ☐ Yes ☐ No

Samples Collected by (Check One): ☐ EMSL ☑ CLIENT

Samples Received Chilled? ☐ ☐ No

Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Logan Hester

Sampled By Signature:

Sampler ID#: (If applicable)

No. Samples in Shipment:

Turn-Around-Time (TAT)

Standard Turn-Around-Time: ☒ 2 Weeks

The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other Describe below in Special Instructions)	List Test(s) Needed: Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-54-H	☐	☒	10-21-25 1405	A		X								Low Level H2S
SGP-54	☐	☒	1410			X								
SGP-56-H	☐	☒	1420			X								
SGP-56	☐	☒	1425			X								

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Low level H2S by ATSM D5504 - 24 hr. hold

Reporting requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other

Method of Shipment: FedEx Priority Overnight

Sample Condition Upon Receipt:

Received on Ice? Check if Yes ☐

Relinquished by:	Date/Time: 10-21-25	Received by: FedEx	Date/Time 10/22/25 0930
Relinquished by:	Date/Time:	Received by: DATOR	Date/Time 10/24/25 1005

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.
Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

7 SAH

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

EMSL Order Number / Lab Use Only: 4039140

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

RECEIVED
EMSL
CINNAMINSON, NJ
2025 OCT 22 A 9:47

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.): Low Level H_2S by ASTM D5504 - 24 hr-hold

Client Sample ID	Comp	Grab	Date / Time Collected (10/21-25)	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other Describe below in Special Instructions)	List Test(s) Needed: (Write in test below, then record # of bottles for each test in box) Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-58-N	☐	☒	1430	A		X								Low Level H_2S
SGP-58	☐	☒	1435	1		X								
SGP-DUP-01	☐	☒	1	1		X								
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												

Method of Shipment: FedEx Priority Overnight		Sample Condition Upon Receipt:	Received on Ice? Check if Yes ☐
Relinquished by:	Date/Time: 10-21-25	Received by:	Date/Time: 10/22/25 1005
Relinquished by:	Date/Time:	Received by:	Date/Time

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.
Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539305
LIMS Reference ID: AD39305
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AD39305-01	SGP-47-H	Air	10/22/2025	10/23/2025
AD39305-02	SGP-47	Air	10/22/2025	10/23/2025
AD39305-03	SGP-57-H	Air	10/22/2025	10/23/2025
AD39305-04	SGP-57	Air	10/22/2025	10/23/2025
AD39305-05	SGP-48-H	Air	10/22/2025	10/23/2025
AD39305-06	SGP-48	Air	10/22/2025	10/23/2025
AD39305-07	SGP-DUP-08	Air	10/22/2025	10/23/2025

Owen McKenna Laboratory Manager or other approved signatory

Test results meet all NELAP requirements unless otherwise specified. NJDEP Certification #: 03036

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
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Analysis Case Narrative

Method Reference
ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence, ASTM International, West Conshohocken, PA, 2012,

Column
Agilent DB-Sulfur SCD, 70m x 0.53mm ID x 4.3µm

Concentrator Traps:
2.0 cc Loop

Gas Standards:
Certified Gas standards were used for all analyses.

Sample Volumes:
Sample volume aliquots for this procedure is 2.0 cc by loop injection.

Sampling Pressures:
All samples were received at acceptable pressure/vacuum unless listed below.

Holding Times:
All holding times were met.

Sample Pressures:
All samples received in summa canisters were sightly pressurized with UHP diluent and transferred to tedlar bags prior to analysis.

Sample Pressures:

Sample ID	Analysis	Analyzed
AD39305-01	49-Hydrogen Sulfide by ASTM D5504	No Dilutions
AD39305-02	49-Hydrogen Sulfide by ASTM D5504	No Dilutions
AD39305-03	49-Hydrogen Sulfide by ASTM D5504	No Dilutions
AD39305-04	49-Hydrogen Sulfide by ASTM D5504	No Dilutions
AD39305-05	49-Hydrogen Sulfide by ASTM D5504	No Dilutions
AD39305-06	49-Hydrogen Sulfide by ASTM D5504	No Dilutions
AD39305-07	49-Hydrogen Sulfide by ASTM D5504	No Dilutions

Initial Calibration:
All acceptance criteria were met.

Initial Calibration Verification Standard (ICVS)- Second Source:
All acceptance criteria were met.

Laboratory Control Samples (LCS):
All acceptance criteria were met.

Continuing Calibration Verification Standard (CCVS):
All acceptance criteria were met.

Method Blanks (MB):
All acceptance criteria were met.

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EMSL Order ID: 012539305
LIMS Reference ID: AD39305
EMSL Customer ID: SMEI60

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traymond@smeinc.com

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Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

Sample Duplicate:
All acceptance criteria were met.

EMSL Analytical, Inc. certifies that this data package is in compliance with the terme and conditions of this contract, both technically and for completeness, for other thatn the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer ---readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature

Owen McKenna Laboratory Manager or other approved signatory

EMSL Analytical, Inc.

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

EMSL Sample ID: AD39305-01
Customer Sample ID: SGP-47-H
Collected: 10/22/2025 14:00
Received: 10/23/2025 09:40

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/23/25 15:14	BDJ2735	R1517.D	SGP-47-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/23/25 15:14	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

Agency Definitions

OSHA= Occupational Safety and Health Administration
NIOSH=National Institute for Occupational Safety and Health
ACGIH=American Conference of Governmental Industrial Hygienistsn

Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

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LIMS Reference ID: AD39305
EMSL Customer ID: SMEI60

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traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

EMSL Sample ID: AD39305-02
Customer Sample ID: SGP-47
Collected: 10/22/2025 14:05
Received: 10/23/2025 09:40

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/23/25 15:28	BDJ2735	R1518.D	SGP-47	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/23/25 15:28	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
3 MSDS sheet, www.arkema-inc.com

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EMSL Order ID: 012539305
LIMS Reference ID: AD39305
EMSL Customer ID: SMEI60

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
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Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

EMSL Sample ID: AD39305-03
Customer Sample ID: SGP-57-H
Collected: 10/22/2025 14:10
Received: 10/23/2025 09:40

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/23/25 15:42	BDJ2735	R1519.D	SGP-57-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/23/25 15:42	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

1 www.osha.gov
2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
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EMSL-CIN-01

EMSL Order ID: 012539305
LIMS Reference ID: AD39305
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

EMSL Sample ID: AD39305-04
Customer Sample ID: SGP-57
Collected: 10/22/2025 14:15
Received: 10/23/2025 09:40

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/23/25 15:56	BDJ2735	R1520.D	SGP-57	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/23/25 15:56	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

Reference

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

EMSL Sample ID: AD39305-05
Customer Sample ID: SGP-48-H
Collected: 10/22/2025 14:20
Received: 10/23/2025 09:40

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/23/25 16:10	BDJ2735	R1521.D	SGP-48-H	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/23/25 16:10	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

EMSL Sample ID: AD39305-06
Customer Sample ID: SGP-48
Collected: 10/22/2025 14:25
Received: 10/23/2025 09:40

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/23/25 16:25	BDJ2735	R1522.D	SGP-48	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/23/25 16:25	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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EMSL Customer ID: SMEI60

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Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

EMSL Sample ID: AD39305-07
Customer Sample ID: SGP-DUP-08
Collected: 10/22/2025 00:00
Received: 10/23/2025 09:40

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
10/23/25 16:38	BDJ2735	R1523.D	SGP-DUP-08	2 cc	1	KW

ASTM D5504-Sample Summary

Target Compounds	Cas#	MW	Result ppbv	RL ppbv	DF	Result ug/m3	RL ug/m3	Analyzed	Q
Hydrogen Sulfide	7783-06-4	34.1	ND	10	1	ND	14	10/23/25 16:38	
Total Target Compound Concentrations:			**0**			**0**			

Threshold Refernences

Analyte	Odor characteristics[2]	Lowest Validated Odor Threshold[2]	OSHA PEL (gen. Industry-ceiling) [1]	NIOSH REL (ceiling) [1]	ACGIH TLV (TWA) [1]
Hydrogen Sulfide	**Rotton eggs, flatus**	**1 ppb**	**20 ppm**	**10 ppm**	**1 ppm**
Carbonyl Sulfide	**Burnt matches, Burnt fireworks**	**NE**	**NE**	**NE**	**5 ppm**
Methyl Mercaptan	**Rotton cabbage odorized natural**	**0.0002 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Ethyl Mercaptan	**Rotton cabbage odorized natural**	**0.098 ppb**	**10 ppm**	**0.5 ppm**	**0.5 ppm**
Dimethyl Sulfide	**Garlic-like[3]**	**8 ppb**	**NE**	**NE**	**10 ppm**

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2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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ACGIH=American Conference of Governmental Industrial Hygienistsn

Method Reference

ASTM D5504-12: Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

Exposure Limit Definitions

PEL= Permissable Exposure Limit TWA=Time Weighted Average TLV=Threashold Limit Value
REL=Recommended Exposure Limit NE= Not established

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012539305
LIMS Reference ID: AD39305
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 Ph. 16
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 10/23/2025 09:40
Reported: 11/06/2025 17:06

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
ND	Non Detect. This notation would be used in the results column in lieu of a "U" qualifier.
U	Compound was analyzed for but not detected at a listed and appropriately adjusted reporting level.
J(Target)	Concentration estimated between Reporting Limit and MDL.
J	Estimated value reported below adjusted reporting limit for target compounds or estimating a concentration for TICs where a 1:1 response is assumed
B	Compound found in associated method blank as well as in the sample.
E	Estimated value exceeding upper calibration range of instrument. Ethanol and isopropyl alcohol are not specifically targeted to dilute within calibration range.
D	Compound reported from additional diluted analysis.
N	indicates presumptive evidence of a compound based on library search match.

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event
Chain of Custody

AQ 39305 EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

RECEIVED EMSL CINNAMINSON, N.J. 2025 OCT 23 A 9:50

Customer Information

Customer ID:	
Company Name:	S&ME
Contact Name:	Tom Raymond
Street Address:	3201 Spring Forest Rd
City, State, Zip:	Raleigh, NC 27616
Country:	US
Phone:	919-801-5359 / 919-872-2660
Email(s) for Report:	traymond@smeinc.com ; lhester@smeinc.com

Billing Information

Billing ID:	
Company Name:	SAME
Billing Contact:	
Street Address:	
City, State, Zip:	
Country:	
Phone:	
Email(s) for Invoice:	

Project Name/No: Cliffdale Landfill - 23050459 Ph. 16

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NC

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☐ Yes ☐ No — If Yes, for NPDES? ☐ Yes ☐ No

Other (Specify)

PWS ID:

State Reporting Required? ☐ Yes ☐ No

Samples Collected by (Check One): ☐ EMSL ☑ CLIENT

Samples Received Chilled? ☐ ☐ No

Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Logan Hester

Sampled By Signature:

Sampler ID#: (if applicable)

No. Samples in Shipment:

Turn-Around-Time (TAT)

Standard Turn-Around-Time: ☒ 2 Weeks

The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (DW=Drinking Water, WW=Wastewater, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other Describe below in Special Instructions)	List Test(s) Needed: Test 1: ASTM D5504	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
SGP-47-H	☐	☒	10-22-25 1400	A		X								Low Level H2S
SGP-47	☐	☒	1405			X								
SGP-57-H	☐	☒	1410			X								
SGP-57	☐	☒	1415			X								
SGP-48-H	☒	☒	1420			X								
SGP-48	☒	☒	1425			X								
SGP-BMP-08	☒	☒				X								

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Reporting requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other

Method of Shipment: FedEx Priority Overnight

Sample Condition Upon Receipt:

Received on Ice? Check If Yes ☐

Relinquished by:	Date/Time: 10-22-25	Received by: E-FX	Date/Time: 10/23/25 0940
Relinquished by:	Date/Time:	Received by:	Date/Time: 10/23/25 1021

Controlled Document - COC-80 Chemistry Sampling Event R4 07/15/2025

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.
Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

7 SAH

EMSL Analytical, Inc.

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Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012540175
LIMS Reference ID: AD40175
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 PH 16.
Project ID: _Master Project-SMEI60
Customer PO:
Sales Rep: Jason McDonald
Received: 10/28/2025 09:30
Reported: 11/11/2025 17:19

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-30-H		**Lims Reference ID:**		**AD40175-01**	**Matrix: Tubes**				**Sampled: 10/13/25 12:25:00**
Metals									
Mercury	ND		1	0.79	µg/m³	11/10/25 11:45	11/10/25 15:54	SD	NIOSH 6009
Sample: SGP-30		**Lims Reference ID:**		**AD40175-02**	**Matrix: Tubes**				**Sampled: 10/13/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:04	SD	NIOSH 6009
Sample: SGP-31-H		**Lims Reference ID:**		**AD40175-03**	**Matrix: Tubes**				**Sampled: 10/13/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:07	SD	NIOSH 6009
Sample: SGP-31		**Lims Reference ID:**		**AD40175-04**	**Matrix: Tubes**				**Sampled: 10/13/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:09	SD	NIOSH 6009
Sample: SGP-32-H		**Lims Reference ID:**		**AD40175-05**	**Matrix: Tubes**				**Sampled: 10/13/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:12	SD	NIOSH 6009
Sample: SGP-32		**Lims Reference ID:**		**AD40175-06**	**Matrix: Tubes**				**Sampled: 10/13/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:14	SD	NIOSH 6009
Sample: SGP-59-H		**Lims Reference ID:**		**AD40175-07**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:17	SD	NIOSH 6009
Sample: SGP-Dup-02		**Lims Reference ID:**		**AD40175-08**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:19	SD	NIOSH 6009
Sample: SGP-59		**Lims Reference ID:**		**AD40175-09**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									

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traymond@smeinc.com

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Project ID: _Master Project-SMEI60
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Sales Rep: Jason McDonald
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Reported: 11/11/2025 17:19

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-59 (Continued)		**Lims Reference ID:**		**AD40175-09**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals (Continued)									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:22	SD	NIOSH 6009
Sample: SGP-33		**Lims Reference ID:**		**AD40175-10**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:24	SD	NIOSH 6009
Sample: SGP-33-H		**Lims Reference ID:**		**AD40175-11**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:27	SD	NIOSH 6009
Sample: SGP-49		**Lims Reference ID:**		**AD40175-12**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:37	SD	NIOSH 6009
Sample: SGP-49-H		**Lims Reference ID:**		**AD40175-13**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:40	SD	NIOSH 6009
Sample: SGP-34		**Lims Reference ID:**		**AD40175-14**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:42	SD	NIOSH 6009
Sample: SGP-34-H		**Lims Reference ID:**		**AD40175-15**	**Matrix: Tubes**				**Sampled: 10/14/25 12:25:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/10/25 11:45	11/10/25 16:45	SD	NIOSH 6009
Sample: SGP-35-H		**Lims Reference ID:**		**AD40175-16**	**Matrix: Tubes**				**Sampled: 10/15/25 12:25:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 16:59	SD	NIOSH 6009
Sample: SGP-Dup-03		**Lims Reference ID:**		**AD40175-17**	**Matrix: Tubes**				**Sampled: 10/15/25 12:25:00**
Metals									

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3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 PH 16.
Project ID: _Master Project-SMEI60
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Sales Rep: Jason McDonald
Received: 10/28/2025 09:30
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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-Dup-03 (Continued)		**Lims Reference ID:**		**AD40175-17**	**Matrix: Tubes**				**Sampled: 10/15/25 12:25:00**
Metals (Continued)									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:01	SD	NIOSH 6009
Sample: SGP-35		**Lims Reference ID:**		**AD40175-18**	**Matrix: Tubes**				**Sampled: 10/15/25 12:25:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:12	SD	NIOSH 6009
Sample: SGP-36-H		**Lims Reference ID:**		**AD40175-19**	**Matrix: Tubes**				**Sampled: 10/15/25 12:25:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:14	SD	NIOSH 6009
Sample: SGP-36		**Lims Reference ID:**		**AD40175-20**	**Matrix: Tubes**				**Sampled: 10/15/25 12:25:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:17	SD	NIOSH 6009
Sample: SGP-37-H		**Lims Reference ID:**		**AD40175-21**	**Matrix: Tubes**				**Sampled: 10/15/25 12:25:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:20	SD	NIOSH 6009
Sample: SGP-37		**Lims Reference ID:**		**AD40175-22**	**Matrix: Tubes**				**Sampled: 10/15/25 12:28:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:22	SD	NIOSH 6009
Sample: SGP-38-H		**Lims Reference ID:**		**AD40175-23**	**Matrix: Tubes**				**Sampled: 10/15/25 12:36:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:25	SD	NIOSH 6009
Sample: SGP-38		**Lims Reference ID:**		**AD40175-24**	**Matrix: Tubes**				**Sampled: 10/15/25 12:38:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:27	SD	NIOSH 6009
Sample: SGP-39-H		**Lims Reference ID:**		**AD40175-25**	**Matrix: Tubes**				**Sampled: 10/15/25 12:53:00**
Metals									

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-39-H (Continued)		**Lims Reference ID:**		**AD40175-25**	**Matrix: Tubes**				**Sampled: 10/15/25 12:53:00**
Metals (Continued)									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:30	SD	NIOSH 6009
Sample: SGP-39		**Lims Reference ID:**		**AD40175-26**	**Matrix: Tubes**				**Sampled: 10/15/25 13:00:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:32	SD	NIOSH 6009
Sample: SGP-42-H		**Lims Reference ID:**		**AD40175-27**	**Matrix: Tubes**				**Sampled: 10/16/25 12:54:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:35	SD	NIOSH 6009
Sample: SGP-Dup-04		**Lims Reference ID:**		**AD40175-28**	**Matrix: Tubes**				**Sampled: 10/16/25 12:54:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:45	SD	NIOSH 6009
Sample: SGP-42		**Lims Reference ID:**		**AD40175-29**	**Matrix: Tubes**				**Sampled: 10/16/25 12:52:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:48	SD	NIOSH 6009
Sample: SGP-41-H		**Lims Reference ID:**		**AD40175-30**	**Matrix: Tubes**				**Sampled: 10/16/25 13:02:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:50	SD	NIOSH 6009
Sample: SGP-41		**Lims Reference ID:**		**AD40175-31**	**Matrix: Tubes**				**Sampled: 10/16/25 13:00:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:53	SD	NIOSH 6009
Sample: SGP-40-H		**Lims Reference ID:**		**AD40175-32**	**Matrix: Tubes**				**Sampled: 10/16/25 13:12:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:55	SD	NIOSH 6009
Sample: SGP-40		**Lims Reference ID:**		**AD40175-33**	**Matrix: Tubes**				**Sampled: 10/16/25 13:10:00**
Metals									

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-40 (Continued)		**Lims Reference ID:**		**AD40175-33**	**Matrix: Tubes**				**Sampled: 10/16/25 13:10:00**
Metals (Continued)									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 17:58	SD	NIOSH 6009
Sample: SGP-51-H		**Lims Reference ID:**		**AD40175-34**	**Matrix: Tubes**				**Sampled: 10/16/25 13:17:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 18:00	SD	NIOSH 6009
Sample: SGP-51		**Lims Reference ID:**		**AD40175-35**	**Matrix: Tubes**				**Sampled: 10/16/25 13:15:00**
Metals									
Mercury	ND	L1	1	0.83	µg/m³	11/10/25 13:44	11/10/25 18:03	SD	NIOSH 6009
Sample: SGP-53-H		**Lims Reference ID:**		**AD40175-36**	**Matrix: Tubes**				**Sampled: 10/17/25 12:27:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 13:44	SD	NIOSH 6009
Sample: SGP-Dup-05		**Lims Reference ID:**		**AD40175-37**	**Matrix: Tubes**				**Sampled: 10/17/25 12:27:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 13:47	SD	NIOSH 6009
Sample: SGP-53		**Lims Reference ID:**		**AD40175-38**	**Matrix: Tubes**				**Sampled: 10/17/25 12:29:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 13:49	SD	NIOSH 6009
Sample: SGP-52-H		**Lims Reference ID:**		**AD40175-39**	**Matrix: Tubes**				**Sampled: 10/17/25 12:36:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 13:52	SD	NIOSH 6009
Sample: SGP-52		**Lims Reference ID:**		**AD40175-40**	**Matrix: Tubes**				**Sampled: 10/17/25 12:38:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 13:54	SD	NIOSH 6009
Sample: SGP-55-H		**Lims Reference ID:**		**AD40175-41**	**Matrix: Tubes**				**Sampled: 10/17/25 12:44:00**
Metals									

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-55-H (Continued)		**Lims Reference ID:**		**AD40175-41**	**Matrix: Tubes**				**Sampled: 10/17/25 12:44:00**
Metals (Continued)									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 13:57	SD	NIOSH 6009
Sample: SGP-55		**Lims Reference ID:**		**AD40175-42**	**Matrix: Tubes**				**Sampled: 10/17/25 12:46:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:07	SD	NIOSH 6009
Sample: SGP-44-H		**Lims Reference ID:**		**AD40175-43**	**Matrix: Tubes**				**Sampled: 10/17/25 12:51:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:10	SD	NIOSH 6009
Sample: SGP-44		**Lims Reference ID:**		**AD40175-44**	**Matrix: Tubes**				**Sampled: 10/17/25 12:53:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:12	SD	NIOSH 6009
Sample: SGP-50-H		**Lims Reference ID:**		**AD40175-45**	**Matrix: Tubes**				**Sampled: 10/20/25 12:58:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:15	SD	NIOSH 6009
Sample: SGP-Dup 06		**Lims Reference ID:**		**AD40175-46**	**Matrix: Tubes**				**Sampled: 10/20/25 13:00:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:17	SD	NIOSH 6009
Sample: SGP-50		**Lims Reference ID:**		**AD40175-47**	**Matrix: Tubes**				**Sampled: 10/20/25 12:59:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:20	SD	NIOSH 6009
Sample: SGP-43-H		**Lims Reference ID:**		**AD40175-48**	**Matrix: Tubes**				**Sampled: 10/20/25 12:59:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:22	SD	NIOSH 6009
Sample: SGP-43		**Lims Reference ID:**		**AD40175-49**	**Matrix: Tubes**				**Sampled: 10/20/25 12:07:00**
Metals									

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012540175
LIMS Reference ID: AD40175
EMSL Customer ID: SMEI60

Attention: Tom Raymond
S&ME, Inc. [SMEI60]
3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 PH 16.
Project ID: _Master Project-SMEI60
Customer PO:
Sales Rep: Jason McDonald
Received: 10/28/2025 09:30
Reported: 11/11/2025 17:19

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-43 (Continued)		**Lims Reference ID:**		**AD40175-49**	**Matrix: Tubes**				**Sampled: 10/20/25 12:07:00**
Metals (Continued)									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:25	SD	NIOSH 6009
Sample: SGP-45-H		**Lims Reference ID:**		**AD40175-50**	**Matrix: Tubes**				**Sampled: 10/20/25 12:14:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:27	SD	NIOSH 6009
Sample: SGP-45		**Lims Reference ID:**		**AD40175-51**	**Matrix: Tubes**				**Sampled: 10/20/25 12:13:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:30	SD	NIOSH 6009
Sample: SGP-46-H		**Lims Reference ID:**		**AD40175-52**	**Matrix: Tubes**				**Sampled: 10/20/25 12:14:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:40	SD	NIOSH 6009
Sample: SGP-46		**Lims Reference ID:**		**AD40175-53**	**Matrix: Tubes**				**Sampled: 10/20/25 12:18:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:43	SD	NIOSH 6009
Sample: SGP-54-H		**Lims Reference ID:**		**AD40175-54**	**Matrix: Tubes**				**Sampled: 10/21/25 12:19:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:45	SD	NIOSH 6009
Sample: SGP-Dup-07		**Lims Reference ID:**		**AD40175-55**	**Matrix: Tubes**				**Sampled: 10/21/25 12:18:00**
Metals									
Mercury	ND		1	0.83	µg/m³	11/11/25 10:52	11/11/25 14:48	SD	NIOSH 6009
Sample: SGP-54		**Lims Reference ID:**		**AD40175-56**	**Matrix: Tubes**				**Sampled: 10/21/25 12:19:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:01	SD	NIOSH 6009
Sample: SGP-56-H		**Lims Reference ID:**		**AD40175-57**	**Matrix: Tubes**				**Sampled: 10/21/25 11:15:00**
Metals									

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LIMS Reference ID: AD40175
EMSL Customer ID: SMEI60

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3201 Spring Forest Rd.
Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 PH 16.
Project ID: _Master Project-SMEI60
Customer PO:
Sales Rep: Jason McDonald
Received: 10/28/2025 09:30
Reported: 11/11/2025 17:19

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-56-H (Continued)		**Lims Reference ID:**		**AD40175-57**	**Matrix: Tubes**				**Sampled: 10/21/25 11:15:00**
Metals (Continued)									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:04	SD	NIOSH 6009
Sample: SGP-56		**Lims Reference ID:**		**AD40175-58**	**Matrix: Tubes**				**Sampled: 10/21/25 11:15:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:15	SD	NIOSH 6009
Sample: SGP-58-H		**Lims Reference ID:**		**AD40175-59**	**Matrix: Tubes**				**Sampled: 10/21/25 11:16:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:17	SD	NIOSH 6009
Sample: SGP-58		**Lims Reference ID:**		**AD40175-60**	**Matrix: Tubes**				**Sampled: 10/21/25 11:24:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:20	SD	NIOSH 6009
Sample: SGP-47-H		**Lims Reference ID:**		**AD40175-61**	**Matrix: Tubes**				**Sampled: 10/22/25 11:25:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:22	SD	NIOSH 6009
Sample: SGP-Dup-08		**Lims Reference ID:**		**AD40175-62**	**Matrix: Tubes**				**Sampled: 10/22/25 11:51:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:25	SD	NIOSH 6009
Sample: SGP-47		**Lims Reference ID:**		**AD40175-63**	**Matrix: Tubes**				**Sampled: 10/22/25 11:52:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:27	SD	NIOSH 6009
Sample: SGP-57-H		**Lims Reference ID:**		**AD40175-64**	**Matrix: Tubes**				**Sampled: 10/22/25 11:53:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:30	SD	NIOSH 6009
Sample: SGP-57		**Lims Reference ID:**		**AD40175-65**	**Matrix: Tubes**				**Sampled: 10/22/25 11:54:00**
Metals									

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EMSL-CIN-01

EMSL Order ID: 012540175
LIMS Reference ID: AD40175
EMSL Customer ID: SMEI60

Attention: Tom Raymond
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Raleigh, NC 27616
(919) 872-2660
traymond@smeinc.com

Project Name: Cliffdale Landfill - 23050459 PH 16.
Project ID: _Master Project-SMEI60
Customer PO:
Sales Rep: Jason McDonald
Received: 10/28/2025 09:30
Reported: 11/11/2025 17:19

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: SGP-57 (Continued)		**Lims Reference ID:**		**AD40175-65**	**Matrix: Tubes**				**Sampled: 10/22/25 11:54:00**
Metals (Continued)									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:32	SD	NIOSH 6009
Sample: SGP-48-H		**Lims Reference ID:**		**AD40175-66**	**Matrix: Tubes**				**Sampled: 10/22/25 12:26:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:35	SD	NIOSH 6009
Sample: SGP-48		**Lims Reference ID:**		**AD40175-67**	**Matrix: Tubes**				**Sampled: 10/22/25 12:28:00**
Metals									
Mercury	ND	C	1	0.83	µg/m³	11/11/25 10:54	11/11/25 15:37	SD	NIOSH 6009

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LIMS Reference ID: AD40175
EMSL Customer ID: SMEI60

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Certified Analyses included in this Report

Analyte	Certifications
NIOSH 6009 in Tubes	
Mercury	A2LA,AIHA LAP

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	2845.25	11/30/2025
NYSDOH	New York State Department of Health ELAP	10872	04/01/2026
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2026
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2026
CTDPH	Connecticut Department of Public Health	PH-0270	06/30/2026
California ELAP	California Water Boards	1877	06/30/2026
AIHA LAP	American Industrial Hygiene Association (AIHA LAP, LLC)	100194	04/01/2027
A2LA	A2LA Environmental Certificate	2845.01	07/31/2026
21-A2LA	A2LA Food Chem/Mat Sci	2845.15	07/31/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

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LIMS Reference ID: AD40175
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Project Name: Cliffdale Landfill - 23050459 PH 16.
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Customer PO:
Sales Rep: Jason McDonald
Received: 10/28/2025 09:30
Reported: 11/11/2025 17:19

Notes and Definitions

Item	Definition
C	The LCSD recovery was outside the method control limits.
L1	This compound is outside the method control limits in the associated BS.
R1	Recovery is outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: c@emsl.com

EMSL ANALYTICAL, INC.
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Industrial Hygiene - Chain of Custody

EMSL Order Number / Lab Use Only: AD40175

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information

Customer ID:	
Company Name:	S&ME
Contact Name:	Tom Raymond
Street Address:	3201 Spring Forest Rd
City, State, Zip:	Raleigh, NC 27616
Country:	US
Phone:	919-801-5359 / 919-872-2660
Email(s) for Report:	traymond@smeinc.com / lhester@smeinc.com

Billing Information

Billing ID:	
Company Name:	SAME
Billing Contact:	
Street Address:	
City, State, Zip:	
Country:	
Phone:	
Email(s) for Invoice:	
Purchase Order:	

Project Name/No: Cliffdale Landfill - 23050459 Ph. 16

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NC

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Media Type: Air

Media Manufacturer/ Part Number:

Media Lot Number:

Sampled By Name: Logan Hester

Sampled By Signature:

No. Samples in Shipment:

Turnaround Time (TAT) Options - Please check: (If no selection made, Standard 2 Week (EOD) TAT will apply)

☑ 2 Week ☐ 1 Week ☐ 4 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Other (Call Lab)

	Client Sample ID	Location/Description	Analyte/ Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume/Area	Sample Type	Sample Date	Comments
1	SGP-30-H		NIOSH 6009 - mercury	Sorbent Tube		1225	1325		☒ Area ☐ Personal	10-13-25	
2	SGP-30					1228	1328		☐ Area ☒ Personal		
3	SGP-31-H					1236	1336		☐ Area ☒ Personal		
4	SGP-31					1238	1338		☐ Area ☒ Personal		
5	SGP-32-H					1253	1353		☐ Area ☒ Personal		
6	SGP-32					1300	1400		☐ Area ☒ Personal		
	[redacted]								☐ Area ☐ Personal		
									☐ Area ☐ Personal		

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

NIOSH 6009 mercury - sorbent tube sampling

Method of Shipment: FedEx

Relinquished by: [signature] Date/Time: 10/24/25 1400

Relinquished by: Date/Time: [illegible]

Sample Condition Upon Receipt:

Received by: [signature] Date/Time 10/27/25 930

Received by: Date/Time

Controlled Document - COC-21 Industrial Hygiene R4 05/12/2021

☐ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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EMSL ANALYTICAL, INC.
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Industrial Hygiene - Chain of Custody

EMSL Order Number / Lab Use Only

AD 40175

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: c@emsl.com

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

NIOSH 6009 - Mercury

	Client Sample ID	Location/Description	Analyte/ Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume/Area	Sample Type	Sample Date	Comments
7	SGP-54-H		NIOSH 6009 Mercury	Sorbent Tube		1254	1354		☐ Area ☐ Personal	10-14-25	
8	SGP-DUP02					1254	1354		☐ Area ☐ Personal		
9	SGP-59					1252	1352		☐ Area ☐ Personal		
10	SGP-33					1302	1402		☐ Area ☐ Personal		
11	SGP-33-H					1300	1400		☐ Area ☐ Personal		
12	SGP-49					1312	1412		☐ Area ☐ Personal		
13	SGP-49-H					1310	1410		☐ Area ☐ Personal		
14	SGP-34					1317	1417		☐ Area ☐ Personal		
15	SGP-34-H					1315	1415		☐ Area ☐ Personal		
16	SGP-35-H					1227	1327		☐ Area ☐ Personal	10-14-25	
17	SGP-DUP-03					1227	1327		☐ Area ☐ Personal		
18	SGP-35					1229	1329		☐ Area ☐ Personal		
19	SGP-36-H					1236	1336		☐ Area ☐ Personal		
20	SGP-36					1238	1338		☐ Area ☐ Personal		
21	SGP-37-H					1244	1344		☐ Area ☐ Personal		
22	SGP-37					1246	1346		☐ Area ☐ Personal		

Method of Shipment: FEDEX

Relinquished by: [signature] — Date/Time: 10/24/25 / 1400

Relinquished by: — Date/Time: ~~11-00~~ a

Sample Condition Upon Receipt:

Received by: — Date/Time

Received by: — Date/Time

Controlled Document - COC-21 Industrial Hygiene R4 05/12/2021

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	Client Sample ID	Location/Description	Analyte/ Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume/Area	Sample Type	Sample Date	Comments
23	SGP-38-H		M0041600 Mercury	Sorbent tube		1251	1351		☐ Area ☒ Personal	10-15-25	
24	SGP-38					1253	1353		☐ Area ☒ Personal		
25	SGP-37-H					1258	1358		☐ Area ☒ Personal		
26	SGP-39					1300	1400		☐ Area ☒ Personal		
27	SGP-42-H					1259	1359		☐ Area ☒ Personal	10-16-25	
28	SGP-DUP-04					1254	1354		☐ Area ☒ Personal		
29	SGP-42					1300	1400		☐ Area ☒ Personal		
30	SGP-41-H					1255	1355		☐ Area ☒ Personal		
31	SGP-41					1256	1356		☐ Area ☒ Personal		
32	SGP-40-H					1258	1358		☐ Area ☒ Personal		
33	SGP-40					1256	1356		☐ Area ☒ Personal		
34	SGP-51-H					1700	1400		☐ Area ☒ Personal		
35	SGP-51					1302	1402		☐ Area ☒ Personal		
36	SGP-53-H					1159	1259		☐ Area ☒ Personal	10-17-25	
37	SGP-DUP-05					1202	1302		☐ Area ☒ Personal		
38	SGP-53					1151	1251		☐ Area ☒ Personal		

Method of Shipment: fedex

Relinquished by: [signature] Date/Time: 10/24/25 1400

Relinquished by: Date/Time:

Sample Condition Upon Receipt:

Received by: Date/Time

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Controlled Document - COC-21 Industrial Hygiene R4 05/12/2021

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	Client Sample ID	Location/Description	Analyte/ Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume/Area	Sample Type	Sample Date	Comments
39	SGP-52-H		NIOSH 6009 Mercury	Sorbent tubes		1202	1302		Area / Personal	10-17-25	
40	SGP-52					1204	1304		Area / Personal		
41	SGP-55-H					1210	1310		Area / Personal		
42	SGP-55					1212	1312		Area / Personal		
43	SGP-44-H					1223	1323		Area / Personal		
44	SGP-44					1225	1325		Area / Personal		
45	SGP-50-H					1207	1307		Area / Personal	10-20-25	
46	SGP-DUP-06					1207	1307		Area / Personal		
47	SGP-50					1208	1308		Area / Personal		
48	SGP-43-H					1214	1314		Area / Personal		
49	SGP-43					1213	1313		Area / Personal		
50	SGP-45-H					1218	1318		Area / Personal		
51	SGP-45					1219	1319		Area / Personal		
52	SGP-46-H					1218	1318		Area / Personal		
53	SGP-46					1219	1319		Area / Personal		

Method of Shipment: FEDEX

Relinquished by: [signature] Date/Time: 10/24/25 1400

Relinquished by: Date/Time:

Sample Condition Upon Receipt:

Received by: Date/Time

Received by: Date/Time

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Industrial Hygiene - Chain of Custody

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Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

	Client Sample ID	Location/Description	Analyte/ Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume/Area	Sample Type	Sample Date	Comments
54	SGP-54-M		NIOSH 6009 Mercury	Sorbent Tube		1115	1215		☐ Area ☒ Personal	10-21-25	
55	SGP-DUP-07		″	″		1115	1215		☐ Area ☒ Personal	″	
56	SGP-54		″	″		1116	1216		☐ Area ☒ Personal	″	
57	SGP-56-M		″	″		1124	1224		☐ Area ☒ Personal	″	
58	SGP-56		″	″		1125	1225		☐ Area ☒ Personal	″	
59	SGP-58-M		″	″		1151	1251		☐ Area ☒ Personal	″	
60	SGP-58		″	″		1152	1252		☐ Area ☒ Personal	″	
61	SGP-47-M		″	″		1151	1252		☐ Area ☒ Personal	10-22-25	
62	SGP-DUP-08		″	″		1151	1251		☐ Area ☒ Personal	″	
63	SGP-47		″	″		1152	1252		☐ Area ☒ Personal	″	
64	SGP-57-M		″	″		1153	1253		☐ Area ☒ Personal	″	
65	SGP-57		″	″		1154	1254		☐ Area ☒ Personal	″	
66	SGP-48-M		″	″		1226	1326		☐ Area ☒ Personal	″	
67	SGP-48		″	″		1228	1328		☐ Area ☒ Personal	″	
									☐ Area ☐ Personal		
									☐ Area ☐ Personal		

Method of Shipment: FEDEX

Sample Condition Upon Receipt:

Relinquished by: [signature] — Date/Time: 10/24/25 1400 — Received by: — Date/Time

Relinquished by: — Date/Time: — Received by: — Date/Time

Controlled Document - COC-21 Industrial Hygiene R4 05/12/2021

☐ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Appendix IV – NCDEQ Risk Calculator Forms

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-30 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-30-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	2.2E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.7E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
23		67-64-1	Acetone			ug/m^3	SGP-30-H									
15		67-63-0	Isopropanol			ug/m^3	SGP-30-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	23	0.69	-	-		
67-63-0	Isopropanol	15	0.45	-	4.2E+01		2.2E-03
					Cumulative:	0.0E+00	2.2E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-30-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	23	0.23	-	-		
67-63-0	Isopropanol	15	0.15	-	1.8E+02		1.7E-04
					Cumulative:	0.0E+00	1.7E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-31 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.9E-06	3.1E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	3.8E-07	2.5E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
20		67-66-3	Chloroform			ug/m^3	SGP-31									
29		110-82-7	Cyclohexane			ug/m^3	SGP-31									
52	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-31									
9.8	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-31									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	20	0.6	1.2E-01	4.1E-01	**4.9E-06**	**3.0E-01**
110-82-7	Cyclohexane	29	0.87	-	1.3E+03		1.4E-04
75-71-8	Dichlorodifluoromethane	52	1.56	-	2.1E+01		1.5E-02
110-54-3	Hexane, N-	9.8	0.294	-	1.5E+02		4.0E-04
					Cumulative:	4.9E-06	3.1E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	20	0.2	5.3E-01	1.7E+00	3.8E-07	2.3E-02
110-82-7	Cyclohexane	29	0.29	-	5.3E+03		1.1E-05
75-71-8	Dichlorodifluoromethane	52	0.52	-	8.8E+01		1.2E-03
110-54-3	Hexane, N-	9.8	0.098	-	6.1E+02		3.2E-05
					Cumulative:	3.8E-07	2.5E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-31-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	8.6E-07	5.3E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	6.6E-08	4.2E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
3.5		67-66-3	Chloroform			ug/m^3	SGP-31-H									
8.7	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-31-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	3.5	0.105	1.2E-01	4.1E-01	8.6E-07	5.2E-02
67-63-0	Isopropanol	8.7	0.261	-	4.2E+01		1.3E-03
					Cumulative:	8.6E-07	5.3E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-31-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	3.5	0.035	5.3E-01	1.7E+00	6.6E-08	4.1E-03
67-63-0	Isopropanol	8.7	0.087	-	1.8E+02		9.9E-05
					Cumulative:	6.6E-08	4.2E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-32 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.7E-07	2.0E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.1E-08	1.6E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
23		67-64-1	Acetone			ug/m^3	SGP-32									
1.1		67-66-3	Chloroform			ug/m^3	SGP-32									
13	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-32									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	23	0.69	-	-		
67-66-3	Chloroform	1.1	0.033	1.2E-01	4.1E-01	2.7E-07	1.6E-02
75-71-8	Dichlorodifluoromethane	13	0.39	-	2.1E+01		3.7E-03
					Cumulative:	2.7E-07	2.0E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	23	0.23	-	-		
67-66-3	Chloroform	1.1	0.011	5.3E-01	1.7E+00	2.1E-08	1.3E-03
75-71-8	Dichlorodifluoromethane	13	0.13	-	8.8E+01		3.0E-04
					Cumulative:	2.1E-08	1.6E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-32-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.6E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.3E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
11	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-32-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-63-0	Isopropanol	11	0.33	-	4.2E+01		1.6E-03
					Cumulative:	0.0E+00	1.6E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-32-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-63-0	Isopropanol	11	0.11	-	1.8E+02		1.3E-04
					Cumulative:	0.0E+00	1.3E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-33 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.5E-07	1.5E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.9E-08	1.2E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
1		67-66-3	Chloroform			ug/m^3	SGP-33									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	1	0.03	1.2E-01	4.1E-01	2.5E-07	1.5E-02
					Cumulative:	2.5E-07	1.5E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	1	0.01	5.3E-01	1.7E+00	1.9E-08	1.2E-03
					Cumulative:	1.9E-08	1.2E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-33-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-33-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-34 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.5E-05	7.0E+00	YES
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.9E-06	5.5E-01	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
170		71-43-2	Benzene			ug/m^3	SGP-34									
570		110-82-7	Cyclohexane			ug/m^3	SGP-34									
1300	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-34									
700		75-35-4	Dichloroethylene, 1,1-			ug/m^3	SGP-34									
88		156-59-2	Dichloroethylene, cis-1,2-			ug/m^3	SGP-34									
170	Chloroethane	75-00-3	Ethyl Chloride (Chloroethane)			ug/m^3	SGP-34									
960	Heptane	142-82-5	Heptane, N-			ug/m^3	SGP-34									
490	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-34									
71.09		7783-06-4	Hydrogen Sulfide			ug/m^3	SGP-34									
41	J	108-67-8	Trimethylbenzene, 1,3,5-			ug/m^3	SGP-34									
230		75-01-4	Vinyl Chloride			ug/m^3	SGP-34									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	170	5.1	3.6E-01	6.3E+00	**1.4E-05**	1.6E-01
110-82-7	Cyclohexane	570	17.1	-	1.3E+03		2.7E-03
75-71-8	Dichlorodifluoromethane	1300	39	-	2.1E+01		**3.7E-01**
75-35-4	Dichloroethylene, 1,1-	700	21	-	8.3E-01		**5.1E+00**
156-59-2	Dichloroethylene, cis-1,2-	88	2.64	-	8.3E+00		6.3E-02
75-00-3	Ethyl Chloride (Chloroethane)	170	5.1	-	8.3E+02		1.2E-03
142-82-5	Heptane, N-	960	28.8	-	8.3E+01		6.9E-02
110-54-3	Hexane, N-	490	14.7	-	1.5E+02		2.0E-02
7783-06-4	Hydrogen Sulfide	71.09	2.1327	-	4.2E-01		**1.0E+00**
108-67-8	Trimethylbenzene, 1,3,5-	41	1.23	-	1.3E+01		2.0E-02
75-01-4	Vinyl Chloride	230	6.9	1.7E-01	1.1E+01	**4.1E-05**	1.3E-01
					Cumulative:	5.5E-05	**7.0E+00**

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	170	1.7	1.6E+00	2.6E+01	**1.1E-06**	1.3E-02
110-82-7	Cyclohexane	570	5.7	-	5.3E+03		2.2E-04
75-71-8	Dichlorodifluoromethane	1300	13	-	8.8E+01		3.0E-02
75-35-4	Dichloroethylene, 1,1-	700	7	-	3.5E+00		**4.0E-01**
156-59-2	Dichloroethylene, cis-1,2-	88	0.88	-	3.5E+01		5.0E-03
75-00-3	Ethyl Chloride (Chloroethane)	170	1.7	-	3.5E+03		9.7E-05
142-82-5	Heptane, N-	960	9.6	-	3.5E+02		5.5E-03
110-54-3	Hexane, N-	490	4.9	-	6.1E+02		1.6E-03
7783-06-4	Hydrogen Sulfide	71.09	0.7109	-	1.8E+00		8.1E-02
108-67-8	Trimethylbenzene, 1,3,5-	41	0.41	-	5.3E+01		1.6E-03
75-01-4	Vinyl Chloride	230	2.3	2.8E+00	4.5E+01	8.3E-07	1.0E-02
					Cumulative:	1.9E-06	5.5E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-34-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.4E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.1E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
21		67-64-1	Acetone			ug/m^3	SGP-34-H									
9.8	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-34-H									
8	Freon 11	75-69-4	Trichlorofluoromethane			ug/m^3	SGP-34-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	21	0.63	-	-		
67-63-0	Isopropanol	9.8	0.294	-	4.2E+01		1.4E-03
75-69-4	Trichlorofluoromethane	8	0.24	-	-		
					Cumulative:	0.0E+00	1.4E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-34-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	21	0.21	-	-		
67-63-0	Isopropanol	9.8	0.098	-	1.8E+02		1.1E-04
75-69-4	Trichlorofluoromethane	8	0.08	-	-		
					Cumulative:	0.0E+00	1.1E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-35 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.3E-04	1.1E+03	YES
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.7E-06	9.1E+01	YES
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
6500		67-64-1	Acetone			ug/m^3	SGP-35									
310		71-43-2	Benzene			ug/m^3	SGP-35									
2000		110-82-7	Cyclohexane			ug/m^3	SGP-35									
120		106-46-7	Dichlorobenzene, 1,4-			ug/m^3	SGP-35									
910	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-35									
630		75-34-3	Dichloroethane, 1,1-			ug/m^3	SGP-35									
260	cis-1,2-Dichloroethene	156-59-2	Dichloroethylene, cis-1,2-			ug/m^3	SGP-35									
240	trans-1,2-Dichloroethene	156-60-5	Dichloroethylene, trans-1,2-			ug/m^3	SGP-35									
930	Chloroethane	75-00-3	Ethyl Chloride (Chloroethane)			ug/m^3	SGP-35									
2900	Heptane	142-82-5	Heptane, N-			ug/m^3	SGP-35									
1500	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-35									
79450.31		7783-06-4	Hydrogen Sulfide			ug/m^3	SGP-35									
1400	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-35									
170	2-Butanone (Methyl Ethyl Ketone)	78-93-3	Methyl Ethyl Ketone (2-Butanone)			ug/m^3	SGP-35									
400		108-88-3	Toluene			ug/m^3	SGP-35									
83	Trichloroethene	79-01-6	Trichloroethylene			ug/m^3	SGP-35									
430		75-01-4	Vinyl Chloride			ug/m^3	SGP-35									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	6500	195	-	-		
71-43-2	Benzene	310	9.3	3.6E-01	6.3E+00	**2.6E-05**	**3.0E-01**
110-82-7	Cyclohexane	2000	60	-	1.3E+03		9.6E-03
106-46-7	Dichlorobenzene, 1,4-	120	3.6	2.6E-01	1.7E+02	**1.4E-05**	4.3E-03
75-71-8	Dichlorodifluoromethane	910	27.3	-	2.1E+01		**2.6E-01**
75-34-3	Dichloroethane, 1,1-	630	18.9	1.8E+00	-	**1.1E-05**	
156-59-2	Dichloroethylene, cis-1,2-	260	7.8	-	8.3E+00		1.9E-01
156-60-5	Dichloroethylene, trans-1,2-	240	7.2	-	8.3E+00		1.7E-01
75-00-3	Ethyl Chloride (Chloroethane)	930	27.9	-	8.3E+02		6.7E-03
142-82-5	Heptane, N-	2900	87	-	8.3E+01		**2.1E-01**
110-54-3	Hexane, N-	1500	45	-	1.5E+02		6.2E-02
7783-06-4	Hydrogen Sulfide	79450.31	2383.5093	-	4.2E-01		**1.1E+03**
67-63-0	Isopropanol	1400	42	-	4.2E+01		**2.0E-01**
78-93-3	Methyl Ethyl Ketone (2-Butanone)	170	5.1	-	1.0E+03		9.8E-04
108-88-3	Toluene	400	12	-	1.0E+03		2.3E-03
79-01-6	Trichloroethylene	83	2.49	4.8E-01	4.2E-01	**5.2E-06**	**1.2E+00**
75-01-4	Vinyl Chloride	430	12.9	1.7E-01	1.1E+01	**7.7E-05**	**2.4E-01**
					Cumulative:	**1.3E-04**	**1.1E+03**

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	6500	65	-	-		
71-43-2	Benzene	310	3.1	1.6E+00	2.6E+01	**2.0E-06**	2.4E-02
110-82-7	Cyclohexane	2000	20	-	5.3E+03		7.6E-04
106-46-7	Dichlorobenzene, 1,4-	120	1.2	1.1E+00	7.0E+02	**1.1E-06**	3.4E-04
75-71-8	Dichlorodifluoromethane	910	9.1	-	8.8E+01		2.1E-02
75-34-3	Dichloroethane, 1,1-	630	6.3	7.7E+00	-	8.2E-07	
156-59-2	Dichloroethylene, cis-1,2-	260	2.6	-	3.5E+01		1.5E-02
156-60-5	Dichloroethylene, trans-1,2-	240	2.4	-	3.5E+01		1.4E-02
75-00-3	Ethyl Chloride (Chloroethane)	930	9.3	-	3.5E+03		5.3E-04
142-82-5	Heptane, N-	2900	29	-	3.5E+02		1.7E-02
110-54-3	Hexane, N-	1500	15	-	6.1E+02		4.9E-03
7783-06-4	Hydrogen Sulfide	79450.31	794.5031	-	1.8E+00		**9.1E+01**
67-63-0	Isopropanol	1400	14	-	1.8E+02		1.6E-02
78-93-3	Methyl Ethyl Ketone (2-Butanone)	170	1.7	-	4.4E+03		7.8E-05
108-88-3	Toluene	400	4	-	4.4E+03		1.8E-04
79-01-6	Trichloroethylene	83	0.83	3.0E+00	1.8E+00	2.8E-07	9.5E-02
75-01-4	Vinyl Chloride	430	4.3	2.8E+00	4.5E+01	**1.5E-06**	1.9E-02
					Cumulative:	5.7E-06	**9.1E+01**

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-35-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.2E-05	8.7E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	8.8E-07	6.9E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-03 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
15		71-43-2	Benzene			ug/m^3	SGP-35-H									
42		67-66-3	Chloroform			ug/m^3	SGP-35-H									
2.9		110-82-7	Cyclohexane			ug/m^3	SGP-35-H									
14	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-35-H									
6.4	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-35-H									
15.33		7783-06-4	Hydrogen Sulfide			ug/m^3	SGP-35-H									
8.8	PCE	127-18-4	Tetrachloroethylene			ug/m^3	SGP-35-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	15	0.45	3.6E-01	6.3E+00	**1.3E-06**	1.4E-02
67-66-3	Chloroform	42	1.26	1.2E-01	4.1E-01	**1.0E-05**	**6.2E-01**
110-82-7	Cyclohexane	2.9	0.087	-	1.3E+03		1.4E-05
75-71-8	Dichlorodifluoromethane	14	0.42	-	2.1E+01		4.0E-03
110-54-3	Hexane, N-	6.4	0.192	-	1.5E+02		2.6E-04
7783-06-4	Hydrogen Sulfide	15.33	0.4599	-	4.2E-01		**2.2E-01**
127-18-4	Tetrachloroethylene	8.8	0.264	1.1E+01	8.3E+00	2.4E-08	6.3E-03
					Cumulative:	1.2E-05	8.7E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-35-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	15	0.15	1.6E+00	2.6E+01	9.5E-08	1.1E-03
67-66-3	Chloroform	42	0.42	5.3E-01	1.7E+00	7.9E-07	4.9E-02
110-82-7	Cyclohexane	2.9	0.029	-	5.3E+03		1.1E-06
75-71-8	Dichlorodifluoromethane	14	0.14	-	8.8E+01		3.2E-04
110-54-3	Hexane, N-	6.4	0.064	-	6.1E+02		2.1E-05
7783-06-4	Hydrogen Sulfide	15.33	0.1533	-	1.8E+00		1.8E-02
127-18-4	Tetrachloroethylene	8.8	0.088	4.7E+01	3.5E+01	1.9E-09	5.0E-04
					Cumulative:	8.8E-07	6.9E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-36 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	9.5E-05	2.6E+00	YES
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.6E-06	2.1E-01	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
760		71-43-2	Benzene			ug/m^3	SGP-36									
170		108-90-7	Chlorobenzene			ug/m^3	SGP-36									
200		98-82-8	Cumene			ug/m^3	SGP-36									
1900		110-82-7	Cyclohexane			ug/m^3	SGP-36									
1500	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-36									
33	cis-1,2-dichloroethene	156-59-2	Dichloroethylene, cis-1,2-			ug/m^3	SGP-36									
67	trans-1,2-dichloroethene	156-60-5	Dichloroethylene, trans-1,2-			ug/m^3	SGP-36									
150	Chloroethane	75-00-3	Ethyl Chloride (Chloroethane)			ug/m^3	SGP-36									
36		100-41-4	Ethylbenzene			ug/m^3	SGP-36									
97		109-99-9	~Tetrahydrofuran			ug/m^3	SGP-36									
4000	Heptane	142-82-5	Heptane, N-			ug/m^3	SGP-36									
1500	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-36									
58	trichloroethene	79-01-6	Trichloroethylene			ug/m^3	SGP-36									
150		75-01-4	Vinyl Chloride			ug/m^3	SGP-36									
19	m,p-Xylene	108-38-3	Xylene, m-			ug/m^3	SGP-36									
19	m,p-Xylene	106-42-3	Xylene, p-			ug/m^3	SGP-36									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	760	22.8	3.6E-01	6.3E+00	**6.3E-05**	**7.3E-01**
108-90-7	Chlorobenzene	170	5.1	-	1.0E+01		9.8E-02
98-82-8	Cumene	200	6	-	8.3E+01		1.4E-02
110-82-7	Cyclohexane	1900	57	-	1.3E+03		9.1E-03
75-71-8	Dichlorodifluoromethane	1500	45	-	2.1E+01		**4.3E-01**
156-59-2	Dichloroethylene, cis-1,2-	33	0.99	-	8.3E+00		2.4E-02
156-60-5	Dichloroethylene, trans-1,2-	67	2.01	-	8.3E+00		4.8E-02
75-00-3	Ethyl Chloride (Chloroethane)	150	4.5	-	8.3E+02		1.1E-03
100-41-4	Ethylbenzene	36	1.08	1.1E+00	2.1E+02	9.6E-07	1.0E-03
109-99-9	~Tetrahydrofuran	97	2.91	-	4.2E+02		1.4E-03
142-82-5	Heptane, N-	4000	120	-	8.3E+01		**2.9E-01**
110-54-3	Hexane, N-	1500	45	-	1.5E+02		6.2E-02
79-01-6	Trichloroethylene	58	1.74	4.8E-01	4.2E-01	**3.6E-06**	**8.3E-01**
75-01-4	Vinyl Chloride	150	4.5	1.7E-01	1.1E+01	**2.7E-05**	8.4E-02
108-38-3	Xylene, m-	19	0.57	-	2.1E+01		5.5E-03
106-42-3	Xylene, p-	19	0.57	-	2.1E+01		5.5E-03

Cumulative:	9.5E-05	**2.6E+00**

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	760	7.6	1.6E+00	2.6E+01	**4.8E-06**	5.8E-02
108-90-7	Chlorobenzene	170	1.7	-	4.4E+01		7.8E-03
98-82-8	Cumene	200	2	-	3.5E+02		1.1E-03
110-82-7	Cyclohexane	1900	19	-	5.3E+03		7.2E-04
75-71-8	Dichlorodifluoromethane	1500	15	-	8.8E+01		3.4E-02
156-59-2	Dichloroethylene, cis-1,2-	33	0.33	-	3.5E+01		1.9E-03
156-60-5	Dichloroethylene, trans-1,2-	67	0.67	-	3.5E+01		3.8E-03
75-00-3	Ethyl Chloride (Chloroethane)	150	1.5	-	3.5E+03		8.6E-05
100-41-4	Ethylbenzene	36	0.36	4.9E+00	8.8E+02	7.3E-08	8.2E-05
109-99-9	~Tetrahydrofuran	97	0.97	-	1.8E+03		1.1E-04
142-82-5	Heptane, N-	4000	40	-	3.5E+02		2.3E-02
110-54-3	Hexane, N-	1500	15	-	6.1E+02		4.9E-03
79-01-6	Trichloroethylene	58	0.58	3.0E+00	1.8E+00	1.9E-07	6.6E-02
75-01-4	Vinyl Chloride	150	1.5	2.8E+00	4.5E+01	5.4E-07	6.7E-03
108-38-3	Xylene, m-	19	0.19	-	8.8E+01		4.3E-04
106-42-3	Xylene, p-	19	0.19	-	8.8E+01		4.3E-04
					Cumulative:	5.6E-06	2.1E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-36-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	3.6E-05	1.6E+00	YES
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.5E-06	1.3E-01	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
110		67-64-1	Acetone			ug/m^3	SGP-36-H									
360		71-43-2	Benzene			ug/m^3	SGP-36-H									
82		108-90-7	Chlorobenzene			ug/m^3	SGP-36-H									
79		98-82-8	Cumene			ug/m^3	SGP-36-H									
140		110-82-7	Cyclohexane			ug/m^3	SGP-36-H									
2700	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-36-H									
58		75-34-3	Dichloroethane, 1,1-			ug/m^3	SGP-36-H									
95	Chloroethane	75-00-3	Ethyl Chloride (Chloroethane)			ug/m^3	SGP-36-H									
400	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-36-H									
27.88		7783-06-4	Hydrogen Sulfide			ug/m^3	SGP-36-H									
29		75-01-4	Vinyl Chloride			ug/m^3	SGP-36-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	110	3.3	-	-		
71-43-2	Benzene	360	10.8	3.6E-01	6.3E+00	**3.0E-05**	**3.5E-01**
108-90-7	Chlorobenzene	82	2.46	-	1.0E+01		4.7E-02
98-82-8	Cumene	79	2.37	-	8.3E+01		5.7E-03
110-82-7	Cyclohexane	140	4.2	-	1.3E+03		6.7E-04
75-71-8	Dichlorodifluoromethane	2700	81	-	2.1E+01		**7.8E-01**
75-34-3	Dichloroethane, 1,1-	58	1.74	1.8E+00	-	9.9E-07	
75-00-3	Ethyl Chloride (Chloroethane)	95	2.85	-	8.3E+02		6.8E-04
110-54-3	Hexane, N-	400	12	-	1.5E+02		1.6E-02
7783-06-4	Hydrogen Sulfide	27.88	0.8364	-	4.2E-01		**4.0E-01**
75-01-4	Vinyl Chloride	29	0.87	1.7E-01	1.1E+01	**5.2E-06**	1.6E-02
					Cumulative:	3.6E-05	**1.6E+00**

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-36-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	110	1.1	-	-		
71-43-2	Benzene	360	3.6	1.6E+00	2.6E+01	**2.3E-06**	2.7E-02
108-90-7	Chlorobenzene	82	0.82	-	4.4E+01		3.7E-03
98-82-8	Cumene	79	0.79	-	3.5E+02		4.5E-04
110-82-7	Cyclohexane	140	1.4	-	5.3E+03		5.3E-05
75-71-8	Dichlorodifluoromethane	2700	27	-	8.8E+01		6.2E-02
75-34-3	Dichloroethane, 1,1-	58	0.58	7.7E+00	-	7.6E-08	
75-00-3	Ethyl Chloride (Chloroethane)	95	0.95	-	3.5E+03		5.4E-05
110-54-3	Hexane, N-	400	4	-	6.1E+02		1.3E-03
7783-06-4	Hydrogen Sulfide	27.88	0.2788	-	1.8E+00		3.2E-02
75-01-4	Vinyl Chloride	29	0.29	2.8E+00	4.5E+01	1.0E-07	1.3E-03
					Cumulative:	2.5E-06	1.3E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-37 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.9E-05	7.0E+02	YES
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.4E-06	5.6E+01	YES
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
500		71-43-2	Benzene			ug/m^3	SGP-37									
89		108-90-7	Chlorobenzene			ug/m^3	SGP-37									
31		98-82-8	Cumene			ug/m^3	SGP-37									
930		110-82-7	Cyclohexane			ug/m^3	SGP-37									
120		106-46-7	Dichlorobenzene, 1,4-			ug/m^3	SGP-37									
1200	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-37									
13		75-34-3	Dichloroethane, 1,1-			ug/m^3	SGP-37									
4.2		107-06-2	Dichloroethane, 1,2-			ug/m^3	SGP-37									
4.7		75-35-4	Dichloroethylene, 1,1-			ug/m^3	SGP-37									
24	trans-1,2-dichloroethene	156-60-5	Dichloroethylene, trans-1,2-			ug/m^3	SGP-37									
8.4		78-87-5	Dichloropropane, 1,2-			ug/m^3	SGP-37									
10		100-41-4	Ethylbenzene			ug/m^3	SGP-37									
260	Heptane	142-82-5	Heptane, N-			ug/m^3	SGP-37									
730	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-37									
48785.28		7783-06-4	Hydrogen Sulfide			ug/m^3	SGP-37									
28		108-88-3	Toluene			ug/m^3	SGP-37									
12	Trichloroethene	79-01-6	Trichloroethylene			ug/m^3	SGP-37									
5.6		108-67-8	Trimethylbenzene, 1,3,5-			ug/m^3	SGP-37									
9	m,p-Xylene	108-38-3	Xylene, m-			ug/m^3	SGP-37									
4.3	o-Xylene	95-47-6	Xylene, o-			ug/m^3	SGP-37									
9	m,p-Xylene	106-42-3	Xylene, p-			ug/m^3	SGP-37									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	500	15	3.6E-01	6.3E+00	**4.2E-05**	**4.8E-01**
108-90-7	Chlorobenzene	89	2.67	-	1.0E+01		5.1E-02
98-82-8	Cumene	31	0.93	-	8.3E+01		2.2E-03
110-82-7	Cyclohexane	930	27.9	-	1.3E+03		4.5E-03
106-46-7	Dichlorobenzene, 1,4-	120	3.6	2.6E-01	1.7E+02	**1.4E-05**	4.3E-03
75-71-8	Dichlorodifluoromethane	1200	36	-	2.1E+01		**3.5E-01**
75-34-3	Dichloroethane, 1,1-	13	0.39	1.8E+00	-	2.2E-07	
107-06-2	Dichloroethane, 1,2-	4.2	0.126	1.1E-01	1.5E+00	**1.2E-06**	1.7E-02
75-35-4	Dichloroethylene, 1,1-	4.7	0.141	-	8.3E-01		3.4E-02
156-60-5	Dichloroethylene, trans-1,2-	24	0.72	-	8.3E+00		1.7E-02
78-87-5	Dichloropropane, 1,2-	8.4	0.252	7.6E-01	8.3E-01	3.3E-07	6.0E-02
100-41-4	Ethylbenzene	10	0.3	1.1E+00	2.1E+02	2.7E-07	2.9E-04
142-82-5	Heptane, N-	260	7.8	-	8.3E+01		1.9E-02
110-54-3	Hexane, N-	730	21.9	-	1.5E+02		3.0E-02
7783-06-4	Hydrogen Sulfide	48785.28	1463.5584	-	4.2E-01		**7.0E+02**
108-88-3	Toluene	28	0.84	-	1.0E+03		1.6E-04
79-01-6	Trichloroethylene	12	0.36	4.8E-01	4.2E-01	7.5E-07	1.7E-01
108-67-8	Trimethylbenzene, 1,3,5-	5.6	0.168	-	1.3E+01		2.7E-03
108-38-3	Xylene, m-	9	0.27	-	2.1E+01		2.6E-03
95-47-6	Xylene, o-	4.3	0.129	-	2.1E+01		1.2E-03
106-42-3	Xylene, p-	9	0.27	-	2.1E+01		2.6E-03

Cumulative:	5.9E-05	**7.0E+02**

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	500	5	1.6E+00	2.6E+01	**3.2E-06**	3.8E-02
108-90-7	Chlorobenzene	89	0.89	-	4.4E+01		4.1E-03
98-82-8	Cumene	31	0.31	-	3.5E+02		1.8E-04
110-82-7	Cyclohexane	930	9.3	-	5.3E+03		3.5E-04
106-46-7	Dichlorobenzene, 1,4-	120	1.2	1.1E+00	7.0E+02	**1.1E-06**	3.4E-04
75-71-8	Dichlorodifluoromethane	1200	12	-	8.8E+01		2.7E-02
75-34-3	Dichloroethane, 1,1-	13	0.13	7.7E+00	-	1.7E-08	
107-06-2	Dichloroethane, 1,2-	4.2	0.042	4.7E-01	6.1E+00	8.9E-08	1.4E-03
75-35-4	Dichloroethylene, 1,1-	4.7	0.047	-	3.5E+00		2.7E-03
156-60-5	Dichloroethylene, trans-1,2-	24	0.24	-	3.5E+01		1.4E-03
78-87-5	Dichloropropane, 1,2-	8.4	0.084	3.3E+00	3.5E+00	2.5E-08	4.8E-03
100-41-4	Ethylbenzene	10	0.1	4.9E+00	8.8E+02	2.0E-08	2.3E-05
142-82-5	Heptane, N-	260	2.6	-	3.5E+02		1.5E-03
110-54-3	Hexane, N-	730	7.3	-	6.1E+02		2.4E-03
7783-06-4	Hydrogen Sulfide	48785.28	487.8528	-	1.8E+00		**5.6E+01**
108-88-3	Toluene	28	0.28	-	4.4E+03		1.3E-05
79-01-6	Trichloroethylene	12	0.12	3.0E+00	1.8E+00	4.0E-08	1.4E-02
108-67-8	Trimethylbenzene, 1,3,5-	5.6	0.056	-	5.3E+01		2.1E-04
108-38-3	Xylene, m-	9	0.09	-	8.8E+01		2.1E-04
95-47-6	Xylene, o-	4.3	0.043	-	8.8E+01		9.8E-05
106-42-3	Xylene, p-	9	0.09	-	8.8E+01		2.1E-04
					Cumulative:	4.4E-06	**5.6E+01**

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-37-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.4E-06	3.1E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	3.4E-07	2.4E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
26		67-64-1	Acetone			ug/m^3	SGP-37-H									
18		67-66-3	Chloroform			ug/m^3	SGP-37-H									
130	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-37-H									
7.6	tetrachloroethene	127-18-4	Tetrachloroethylene			ug/m^3	SGP-37-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	26	0.78	-	-		
67-66-3	Chloroform	18	0.54	1.2E-01	4.1E-01	**4.4E-06**	**2.7E-01**
75-71-8	Dichlorodifluoromethane	130	3.9	-	2.1E+01		3.7E-02
127-18-4	Tetrachloroethylene	7.6	0.228	1.1E+01	8.3E+00	2.1E-08	5.5E-03
					Cumulative:	4.4E-06	3.1E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-37-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	26	0.26	-	-		
67-66-3	Chloroform	18	0.18	5.3E-01	1.7E+00	3.4E-07	2.1E-02
75-71-8	Dichlorodifluoromethane	130	1.3	-	8.8E+01		3.0E-03
127-18-4	Tetrachloroethylene	7.6	0.076	4.7E+01	3.5E+01	1.6E-09	4.3E-04
					Cumulative:	3.4E-07	2.4E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-38 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	2.3E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.8E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
8.1	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-38									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-71-8	Dichlorodifluoromethane	8.1	0.243	-	2.1E+01		2.3E-03
					Cumulative:	0.0E+00	2.3E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-71-8	Dichlorodifluoromethane	8.1	0.081	-	8.8E+01		1.8E-04
					Cumulative:	0.0E+00	1.8E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-38-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	2.7E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	2.1E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
30		67-64-1	Acetone			ug/m^3	SGP-38-H									
82	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-38-H									
16.73		7783-06-4	Hydrogen Sulfide			ug/m^3	SGP-38-H									
9.2	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-38-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	30	0.9	-	-		
75-71-8	Dichlorodifluoromethane	82	2.46	-	2.1E+01		2.4E-02
7783-06-4	Hydrogen Sulfide	16.73	0.5019	-	4.2E-01		**2.4E-01**
67-63-0	Isopropanol	9.2	0.276	-	4.2E+01		1.3E-03
					Cumulative:	0.0E+00	2.7E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-38-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	30	0.3	-	-		
75-71-8	Dichlorodifluoromethane	82	0.82	-	8.8E+01		1.9E-03
7783-06-4	Hydrogen Sulfide	16.73	0.1673	-	1.8E+00		1.9E-02
67-63-0	Isopropanol	9.2	0.092	-	1.8E+02		1.1E-04
					Cumulative:	0.0E+00	2.1E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-39 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-39 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.4E-06	3.0E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.0E-07	2.4E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-39 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
5.5		67-66-3	Chloroform			ug/m^3	SGP-39									
7.9		110-82-7	Cyclohexane			ug/m^3	SGP-39									
760	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-39									
14	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-39									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-39 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	5.5	0.165	1.2E-01	4.1E-01	**1.4E-06**	8.1E-02
110-82-7	Cyclohexane	7.9	0.237	-	1.3E+03		3.8E-05
75-71-8	Dichlorodifluoromethane	760	22.8	-	2.1E+01		**2.2E-01**
110-54-3	Hexane, N-	14	0.42	-	1.5E+02		5.8E-04
					Cumulative:	1.4E-06	3.0E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-39 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	5.5	0.055	5.3E-01	1.7E+00	1.0E-07	6.4E-03
110-82-7	Cyclohexane	7.9	0.079	-	5.3E+03		3.0E-06
75-71-8	Dichlorodifluoromethane	760	7.6	-	8.8E+01		1.7E-02
110-54-3	Hexane, N-	14	0.14	-	6.1E+02		4.6E-05
					Cumulative:	1.0E-07	2.4E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-39-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-39-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	3.8E-07	3.4E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.9E-08	2.7E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-39-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	28	0.84	-	-		
67-66-3	Chloroform	1.5	0.045	1.2E-01	4.1E-01	3.7E-07	2.2E-02
75-71-8	Dichlorodifluoromethane	25	0.75	-	2.1E+01		7.2E-03
67-63-0	Isopropanol	9.1	0.273	-	4.2E+01		1.3E-03
127-18-4	Tetrachloroethylene	5.3	0.159	1.1E+01	8.3E+00	1.5E-08	3.8E-03
75-69-4	Trichlorofluoromethane	7.4	0.222	-	-		
					Cumulative:	3.8E-07	3.4E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-39-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	28	0.28	-	-		
67-66-3	Chloroform	1.5	0.015	5.3E-01	1.7E+00	2.8E-08	1.8E-03
75-71-8	Dichlorodifluoromethane	25	0.25	-	8.8E+01		5.7E-04
67-63-0	Isopropanol	9.1	0.091	-	1.8E+02		1.0E-04
127-18-4	Tetrachloroethylene	5.3	0.053	4.7E+01	3.5E+01	1.1E-09	3.0E-04
75-69-4	Trichlorofluoromethane	7.4	0.074	-	-		
					Cumulative:	2.9E-08	2.7E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-40 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.3E-06	7.8E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	9.8E-08	6.2E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
5.2		67-66-3	Chloroform			ug/m^3	SGP-40									
9.6	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-40									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	5.2	0.156	1.2E-01	4.1E-01	**1.3E-06**	7.7E-02
67-63-0	Isopropanol	9.6	0.288	-	4.2E+01		1.4E-03
					Cumulative:	1.3E-06	7.8E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	5.2	0.052	5.3E-01	1.7E+00	9.8E-08	6.1E-03
67-63-0	Isopropanol	9.6	0.096	-	1.8E+02		1.1E-04
					Cumulative:	9.8E-08	6.2E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-40-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.1E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	8.7E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
19		67-64-1	Acetone			ug/m^3	SGP-40-H									
38	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-40-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.57	-	-		
75-71-8	Dichlorodifluoromethane	38	1.14	-	2.1E+01		1.1E-02
					Cumulative:	0.0E+00	1.1E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-40-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.19	-	-		
75-71-8	Dichlorodifluoromethane	38	0.38	-	8.8E+01		8.7E-04
					Cumulative:	0.0E+00	8.7E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-41 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-41-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.7E-07	1.6E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.1E-08	1.3E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
19		67-64-1	Acetone			ug/m^3	SGP-41-H									
1.1		67-66-3	Chloroform			ug/m^3	SGP-41-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.57	-	-		
67-66-3	Chloroform	1.1	0.033	1.2E-01	4.1E-01	2.7E-07	1.6E-02
					Cumulative:	2.7E-07	1.6E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-41-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.19	-	-		
67-66-3	Chloroform	1.1	0.011	5.3E-01	1.7E+00	2.1E-08	1.3E-03
					Cumulative:	2.1E-08	1.3E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-42 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-42-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.9E-07	1.8E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.3E-08	1.4E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
25		67-64-1	Acetone			ug/m^3	SGP-42-H									
1.2		67-66-3	Chloroform			ug/m^3	SGP-42-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	25	0.75	-	-		
67-66-3	Chloroform	1.2	0.036	1.2E-01	4.1E-01	2.9E-07	1.8E-02
					Cumulative:	2.9E-07	1.8E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-42-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	25	0.25	-	-		
67-66-3	Chloroform	1.2	0.012	5.3E-01	1.7E+00	2.3E-08	1.4E-03
					Cumulative:	2.3E-08	1.4E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-43 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.1E-07	3.2E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.6E-08	2.5E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
0.84		67-66-3	Chloroform			ug/m^3	SGP-43									
67	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-43									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	0.84	0.0252	1.2E-01	4.1E-01	2.1E-07	1.2E-02
75-71-8	Dichlorodifluoromethane	67	2.01	-	2.1E+01		1.9E-02
					Cumulative:	2.1E-07	3.2E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	0.84	0.0084	5.3E-01	1.7E+00	1.6E-08	9.8E-04
75-71-8	Dichlorodifluoromethane	67	0.67	-	8.8E+01		1.5E-03
					Cumulative:	1.6E-08	2.5E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-43-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.7E-07	2.2E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.1E-08	1.7E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
1.1		67-66-3	Chloroform			ug/m^3	SGP-43-H									
15	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-43-H									
8.4	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-43-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	1.1	0.033	1.2E-01	4.1E-01	2.7E-07	1.6E-02
75-71-8	Dichlorodifluoromethane	15	0.45	-	2.1E+01		4.3E-03
67-63-0	Isopropanol	8.4	0.252	-	4.2E+01		1.2E-03
					Cumulative:	2.7E-07	2.2E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-43-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	1.1	0.011	5.3E-01	1.7E+00	2.1E-08	1.3E-03
75-71-8	Dichlorodifluoromethane	15	0.15	-	8.8E+01		3.4E-04
67-63-0	Isopropanol	8.4	0.084	-	1.8E+02		9.6E-05
					Cumulative:	2.1E-08	1.7E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-44 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.6E-06	9.4E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.2E-07	7.5E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
6.4		67-66-3	Chloroform			ug/m^3	SGP-44									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	6.4	0.192	1.2E-01	4.1E-01	**1.6E-06**	9.4E-02
					Cumulative:	1.6E-06	9.4E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	6.4	0.064	5.3E-01	1.7E+00	1.2E-07	7.5E-03
					Cumulative:	1.2E-07	7.5E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-44-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.4E-07	3.4E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.1E-08	2.7E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
20		67-64-1	Acetone			ug/m^3	SGP-44-H									
2.2		67-66-3	Chloroform			ug/m^3	SGP-44-H									
7.3	J	67-63-0	Isopropanol			ug/m^3	SGP-44-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	20	0.6	-	-		
67-66-3	Chloroform	2.2	0.066	1.2E-01	4.1E-01	5.4E-07	3.2E-02
67-63-0	Isopropanol	7.3	0.219	-	4.2E+01		1.1E-03
					Cumulative:	5.4E-07	3.4E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-44-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	20	0.2	-	-		
67-66-3	Chloroform	2.2	0.022	5.3E-01	1.7E+00	4.1E-08	2.6E-03
67-63-0	Isopropanol	7.3	0.073	-	1.8E+02		8.3E-05
					Cumulative:	4.1E-08	2.7E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-45 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	7.9E-07	4.7E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	6.0E-08	3.7E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
3.2		67-66-3	Chloroform			ug/m^3	SGP-45									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	3.2	0.096	1.2E-01	4.1E-01	7.9E-07	4.7E-02
					Cumulative:	7.9E-07	4.7E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	3.2	0.032	5.3E-01	1.7E+00	6.0E-08	3.7E-03
					Cumulative:	6.0E-08	3.7E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-45-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.9E-07	3.5E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.5E-08	2.8E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
2.4		67-66-3	Chloroform			ug/m^3	SGP-45-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	2.4	0.072	1.2E-01	4.1E-01	5.9E-07	3.5E-02
					Cumulative:	5.9E-07	3.5E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-45-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	2.4	0.024	5.3E-01	1.7E+00	4.5E-08	2.8E-03
					Cumulative:	4.5E-08	2.8E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-46 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-46-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.6E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.3E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
30		67-64-1	Acetone			ug/m^3	SGP-46-H									
11	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-46-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	30	0.9	-	-		
67-63-0	Isopropanol	11	0.33	-	4.2E+01		1.6E-03
					Cumulative:	0.0E+00	1.6E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-46-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	30	0.3	-	-		
67-63-0	Isopropanol	11	0.11	-	1.8E+02		1.3E-04
					Cumulative:	0.0E+00	1.3E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-47 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	7.4E-07	4.4E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.6E-08	3.5E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
22		67-64-1	Acetone			ug/m^3	SGP-47									
3		67-66-3	Chloroform			ug/m^3	SGP-47									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	22	0.66	-	-		
67-66-3	Chloroform	3	0.09	1.2E-01	4.1E-01	7.4E-07	4.4E-02
					Cumulative:	7.4E-07	4.4E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	22	0.22	-	-		
67-66-3	Chloroform	3	0.03	5.3E-01	1.7E+00	5.6E-08	3.5E-03
					Cumulative:	5.6E-08	3.5E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-47-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.2E-06	1.3E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.7E-07	1.0E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-08 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
29		67-64-1	Acetone			ug/m^3	SGP-47-H									
8.9		67-66-3	Chloroform			ug/m^3	SGP-DUP-08									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	29	0.87	-	-		
67-66-3	Chloroform	8.9	0.267	1.2E-01	4.1E-01	**2.2E-06**	1.3E-01
					Cumulative:	2.2E-06	1.3E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-47-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	29	0.29	-	-		
67-66-3	Chloroform	8.9	0.089	5.3E-01	1.7E+00	1.7E-07	1.0E-02
					Cumulative:	1.7E-07	1.0E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-48 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	3.4E-07	2.1E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.6E-08	1.6E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
1.4		67-66-3	Chloroform			ug/m^3	SGP-48									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	1.4	0.042	1.2E-01	4.1E-01	3.4E-07	2.1E-02
					Cumulative:	3.4E-07	2.1E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	1.4	0.014	5.3E-01	1.7E+00	2.6E-08	1.6E-03
					Cumulative:	2.6E-08	1.6E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-48-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
35		67-64-1	Acetone			ug/m^3	SGP-48-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	35	1.05	-	-		
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-48-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	35	0.35	-	-		
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-49 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	3.2E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	2.5E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
20		67-64-1	Acetone			ug/m^3	SGP-49									
6.5	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-49									
9.3	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-49									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	20	0.6	-	-		
75-71-8	Dichlorodifluoromethane	6.5	0.195	-	2.1E+01		1.9E-03
67-63-0	Isopropanol	9.3	0.279	-	4.2E+01		1.3E-03
					Cumulative:	0.0E+00	3.2E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	20	0.2	-	-		
75-71-8	Dichlorodifluoromethane	6.5	0.065	-	8.8E+01		1.5E-04
67-63-0	Isopropanol	9.3	0.093	-	1.8E+02		1.1E-04
					Cumulative:	0.0E+00	2.5E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-49-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.7E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.4E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
19		67-64-1	Acetone			ug/m^3	SGP-49-H									
12	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-49-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.57	-	-		
67-63-0	Isopropanol	12	0.36	-	4.2E+01		1.7E-03
					Cumulative:	0.0E+00	1.7E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-49-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.19	-	-		
67-63-0	Isopropanol	12	0.12	-	1.8E+02		1.4E-04
					Cumulative:	0.0E+00	1.4E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-50 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-50 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.4E-04	2.8E+00	YES
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	6.4E-06	2.2E-01	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-50 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-06 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
330		67-64-1	Acetone			ug/m^3	SGP-50									
230		71-43-2	Benzene			ug/m^3	SGP-50									
150		74-87-3	Chloromethane			ug/m^3	SGP-50									
47		98-82-8	Cumene			ug/m^3	SGP-50									
660		110-82-7	Cyclohexane			ug/m^3	SGP-50									
1100	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-50									
180		75-34-3	Dichloroethane, 1,1-			ug/m^3	SGP-50									
550		156-59-2	Dichloroethylene, cis-1,2-			ug/m^3	SGP-50									
74		156-60-5	Dichloroethylene, trans-1,2-			ug/m^3	SGP-50									
130		78-87-5	Dichloropropane, 1,2-			ug/m^3	SGP-50									
260	Chloroethane	75-00-3	Ethyl Chloride (Chloroethane)			ug/m^3	SGP-50									
1000	Heptane	142-82-5	Heptane, N-			ug/m^3	SGP-50									
1000	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-50									
55		108-88-3	Toluene			ug/m^3	SGP-50									
1200		75-01-4	Vinyl Chloride			ug/m^3	SGP-50									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-50 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	330	9.9	-	-		
71-43-2	Benzene	230	6.9	3.6E-01	6.3E+00	**1.9E-05**	**2.2E-01**
74-87-3	Chloromethane	150	4.5	-	1.9E+01		4.8E-02
98-82-8	Cumene	47	1.41	-	8.3E+01		3.4E-03
110-82-7	Cyclohexane	660	19.8	-	1.3E+03		3.2E-03
75-71-8	Dichlorodifluoromethane	1100	33	-	2.1E+01		**3.2E-01**
75-34-3	Dichloroethane, 1,1-	180	5.4	1.8E+00	-	**3.1E-06**	
156-59-2	Dichloroethylene, cis-1,2-	550	16.5	-	8.3E+00		**4.0E-01**
156-60-5	Dichloroethylene, trans-1,2-	74	2.22	-	8.3E+00		5.3E-02
78-87-5	Dichloropropane, 1,2-	130	3.9	7.6E-01	8.3E-01	**5.1E-06**	**9.3E-01**
75-00-3	Ethyl Chloride (Chloroethane)	260	7.8	-	8.3E+02		1.9E-03
142-82-5	Heptane, N-	1000	30	-	8.3E+01		7.2E-02
110-54-3	Hexane, N-	1000	30	-	1.5E+02		4.1E-02
108-88-3	Toluene	55	1.65	-	1.0E+03		3.2E-04
75-01-4	Vinyl Chloride	1200	36	1.7E-01	1.1E+01	**2.1E-04**	**6.8E-01**
					Cumulative:	**2.4E-04**	**2.8E+00**

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-50 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	330	3.3	-	-		
71-43-2	Benzene	230	2.3	1.6E+00	2.6E+01	**1.5E-06**	1.8E-02
74-87-3	Chloromethane	150	1.5	-	7.9E+01		3.8E-03
98-82-8	Cumene	47	0.47	-	3.5E+02		2.7E-04
110-82-7	Cyclohexane	660	6.6	-	5.3E+03		2.5E-04
75-71-8	Dichlorodifluoromethane	1100	11	-	8.8E+01		2.5E-02
75-34-3	Dichloroethane, 1,1-	180	1.8	7.7E+00	-	2.3E-07	
156-59-2	Dichloroethylene, cis-1,2-	550	5.5	-	3.5E+01		3.1E-02
156-60-5	Dichloroethylene, trans-1,2-	74	0.74	-	3.5E+01		4.2E-03
78-87-5	Dichloropropane, 1,2-	130	1.3	3.3E+00	3.5E+00	3.9E-07	7.4E-02
75-00-3	Ethyl Chloride (Chloroethane)	260	2.6	-	3.5E+03		1.5E-04
142-82-5	Heptane, N-	1000	10	-	3.5E+02		5.7E-03
110-54-3	Hexane, N-	1000	10	-	6.1E+02		3.3E-03
108-88-3	Toluene	55	0.55	-	4.4E+03		2.5E-05
75-01-4	Vinyl Chloride	1200	12	2.8E+00	4.5E+01	**4.3E-06**	5.4E-02
					Cumulative:	6.4E-06	2.2E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-52 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.8E-08	4.5E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.4E-09	3.6E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-06 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
23		110-82-7	Cyclohexane			ug/m^3	SGP-50-H									
110	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-50-H									
3.4		75-34-3	Dichloroethane, 1,1-			ug/m^3	SGP-50-H									
12		156-59-2	Dichloroethylene, cis-1,2-			ug/m^3	SGP-50-H									
5		156-60-5	Dichloroethylene, trans-1,2-			ug/m^3	SGP-50-H									
11	Chloroethane	75-00-3	Ethyl Chloride (Chloroethane)			ug/m^3	SGP-50-H									
20	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-50-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
110-82-7	Cyclohexane	23	0.69	-	1.3E+03		1.1E-04
75-71-8	Dichlorodifluoromethane	110	3.3	-	2.1E+01		3.2E-02
75-34-3	Dichloroethane, 1,1-	3.4	0.102	1.8E+00	-	5.8E-08	
156-59-2	Dichloroethylene, cis-1,2-	12	0.36	-	8.3E+00		8.6E-03
156-60-5	Dichloroethylene, trans-1,2-	5	0.15	-	8.3E+00		3.6E-03
75-00-3	Ethyl Chloride (Chloroethane)	11	0.33	-	8.3E+02		7.9E-05
110-54-3	Hexane, N-	20	0.6	-	1.5E+02		8.2E-04
					Cumulative:	5.8E-08	4.5E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
110-82-7	Cyclohexane	23	0.23	-	5.3E+03		8.8E-06
75-71-8	Dichlorodifluoromethane	110	1.1	-	8.8E+01		2.5E-03
75-34-3	Dichloroethane, 1,1-	3.4	0.034	7.7E+00	-	4.4E-09	
156-59-2	Dichloroethylene, cis-1,2-	12	0.12	-	3.5E+01		6.8E-04
156-60-5	Dichloroethylene, trans-1,2-	5	0.05	-	3.5E+01		2.9E-04
75-00-3	Ethyl Chloride (Chloroethane)	11	0.11	-	3.5E+03		6.3E-06
110-54-3	Hexane, N-	20	0.2	-	6.1E+02		6.5E-05
					Cumulative:	4.4E-09	3.6E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-51 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-51-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-04 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
39	Freon 11	75-69-4	Trichlorofluoromethane			ug/m^3	SGP-51-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-69-4	Trichlorofluoromethane	39	1.17	-	-		
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-51-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-69-4	Trichlorofluoromethane	39	0.39	-	-		
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-52 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.6E-06	1.2E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.2E-07	9.5E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
1		71-43-2	Benzene			ug/m^3	SGP-52									
5.9		67-66-3	Chloroform			ug/m^3	SGP-52									
3.9		110-82-7	Cyclohexane			ug/m^3	SGP-52									
110	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-52									
4		75-34-3	Dichloroethane, 1,1-			ug/m^3	SGP-52									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	1	0.03	3.6E-01	6.3E+00	8.3E-08	9.6E-04
67-66-3	Chloroform	5.9	0.177	1.2E-01	4.1E-01	**1.4E-06**	8.7E-02
110-82-7	Cyclohexane	3.9	0.117	-	1.3E+03		1.9E-05
75-71-8	Dichlorodifluoromethane	110	3.3	-	2.1E+01		3.2E-02
75-34-3	Dichloroethane, 1,1-	4	0.12	1.8E+00	-	6.8E-08	
					Cumulative:	1.6E-06	1.2E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
71-43-2	Benzene	1	0.01	1.6E+00	2.6E+01	6.4E-09	7.6E-05
67-66-3	Chloroform	5.9	0.059	5.3E-01	1.7E+00	1.1E-07	6.9E-03
110-82-7	Cyclohexane	3.9	0.039	-	5.3E+03		1.5E-06
75-71-8	Dichlorodifluoromethane	110	1.1	-	8.8E+01		2.5E-03
75-34-3	Dichloroethane, 1,1-	4	0.04	7.7E+00	-	5.2E-09	
					Cumulative:	1.2E-07	9.5E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-52-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-05 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-52 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	3.7E-07	2.1E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.0E-08	1.7E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
27		67-64-1	Acetone			ug/m^3	SGP-53									
0.93		67-66-3	Chloroform			ug/m^3	SGP-53									
24	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-53									
7.6	Hexane	110-54-3	Hexane, N-			ug/m^3	SGP-53									
0.81		75-01-4	Vinyl Chloride			ug/m^3	SGP-53									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	27	0.81	-	-		
67-66-3	Chloroform	0.93	0.0279	1.2E-01	4.1E-01	2.3E-07	1.4E-02
75-71-8	Dichlorodifluoromethane	24	0.72	-	2.1E+01		6.9E-03
110-54-3	Hexane, N-	7.6	0.228	-	1.5E+02		3.1E-04
75-01-4	Vinyl Chloride	0.81	0.0243	1.7E-01	1.1E+01	1.5E-07	4.6E-04
					Cumulative:	3.7E-07	2.1E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-52 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	27	0.27	-	-		
67-66-3	Chloroform	0.93	0.0093	5.3E-01	1.7E+00	1.7E-08	1.1E-03
75-71-8	Dichlorodifluoromethane	24	0.24	-	8.8E+01		5.5E-04
110-54-3	Hexane, N-	7.6	0.076	-	6.1E+02		2.5E-05
75-01-4	Vinyl Chloride	0.81	0.0081	2.8E+00	4.5E+01	2.9E-09	3.6E-05
					Cumulative:	2.0E-08	1.7E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-53-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-53-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	2.2E-03	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.7E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-53-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
4	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-53-H									
7	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-53-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-53-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-71-8	Dichlorodifluoromethane	4	0.12	-	2.1E+01		1.2E-03
67-63-0	Isopropanol	7	0.21	-	4.2E+01		1.0E-03
					Cumulative:	0.0E+00	2.2E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-53-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-71-8	Dichlorodifluoromethane	4	0.04	-	8.8E+01		9.1E-05
67-63-0	Isopropanol	7	0.07	-	1.8E+02		8.0E-05
					Cumulative:	0.0E+00	1.7E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-54 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	1.2E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	9.4E-04	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate Sample Dup-07 taken here. Higher concentrations are shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
41	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-54									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-71-8	Dichlorodifluoromethane	41	1.23	-	2.1E+01		1.2E-02
					Cumulative:	0.0E+00	1.2E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-71-8	Dichlorodifluoromethane	41	0.41	-	8.8E+01		9.4E-04
					Cumulative:	0.0E+00	9.4E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-54 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	5.7E-06	3.4E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.3E-07	2.7E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-07 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
23		67-66-3	Chloroform			ug/m^3	SGP-DUP-07									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	23	0.69	1.2E-01	4.1E-01	**5.7E-06**	**3.4E-01**
					Cumulative:	5.7E-06	3.4E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-54 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	23	0.23	5.3E-01	1.7E+00	4.3E-07	2.7E-02
					Cumulative:	4.3E-07	2.7E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-55 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.5E-06	9.0E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.1E-07	7.1E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
30		67-64-1	Acetone			ug/m^3	SGP-55									
6.1		67-66-3	Chloroform			ug/m^3	SGP-55									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	30	0.9	-	-		
67-66-3	Chloroform	6.1	0.183	1.2E-01	4.1E-01	**1.5E-06**	9.0E-02
					Cumulative:	1.5E-06	9.0E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	30	0.3	-	-		
67-66-3	Chloroform	6.1	0.061	5.3E-01	1.7E+00	1.1E-07	7.1E-03
					Cumulative:	1.1E-07	7.1E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-55-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	9.1E-06	5.5E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	6.9E-07	4.3E-02	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
22		67-64-1	Acetone			ug/m^3	SGP-55-H									
37		67-66-3	Chloroform			ug/m^3	SGP-55-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	22	0.66	-	-		
67-66-3	Chloroform	37	1.11	1.2E-01	4.1E-01	**9.1E-06**	**5.5E-01**
					Cumulative:	9.1E-06	5.5E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-55-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	22	0.22	-	-		
67-66-3	Chloroform	37	0.37	5.3E-01	1.7E+00	6.9E-07	4.3E-02
					Cumulative:	6.9E-07	4.3E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-56 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.1E-07	5.3E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.6E-08	4.2E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
25		67-64-1	Acetone			ug/m^3	SGP-56									
74	Tetrachloroethene	127-18-4	Tetrachloroethylene			ug/m^3	SGP-56									
18		71-55-6	Trichloroethane, 1,1,1-			ug/m^3	SGP-56									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	25	0.75	-	-		
127-18-4	Tetrachloroethylene	74	2.22	1.1E+01	8.3E+00	2.1E-07	5.3E-02
71-55-6	Trichloroethane, 1,1,1-	18	0.54	-	1.0E+03		1.0E-04
					Cumulative:	2.1E-07	5.3E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	25	0.25	-	-		
127-18-4	Tetrachloroethylene	74	0.74	4.7E+01	3.5E+01	1.6E-08	4.2E-03
71-55-6	Trichloroethane, 1,1,1-	18	0.18	-	4.4E+03		8.2E-06
					Cumulative:	1.6E-08	4.2E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-56-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.9E-07	3.1E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	3.8E-08	2.4E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate Sample Dup-07 taken here. Higher concentrations are shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
2		67-66-3	Chloroform			ug/m^3	SGP-56-H									
4.2	Freon 12	75-71-8	Dichlorodifluoromethane			ug/m^3	SGP-56-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	2	0.06	1.2E-01	4.1E-01	4.9E-07	3.0E-02
75-71-8	Dichlorodifluoromethane	4.2	0.126	-	2.1E+01		1.2E-03
					Cumulative:	4.9E-07	3.1E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-56-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-66-3	Chloroform	2	0.02	5.3E-01	1.7E+00	3.8E-08	2.3E-03
75-71-8	Dichlorodifluoromethane	4.2	0.042	-	8.8E+01		9.6E-05
					Cumulative:	3.8E-08	2.4E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-57 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.8E-06	1.1E-01	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	1.4E-07	8.6E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
36		67-64-1	Acetone			ug/m^3	SGP-57									
7.2		67-66-3	Chloroform			ug/m^3	SGP-57									
12	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-57									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	36	1.08	-	-		
67-66-3	Chloroform	7.2	0.216	1.2E-01	4.1E-01	**1.8E-06**	1.1E-01
67-63-0	Isopropanol	12	0.36	-	4.2E+01		1.7E-03
					Cumulative:	1.8E-06	1.1E-01

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	36	0.36	-	-		
67-66-3	Chloroform	7.2	0.072	5.3E-01	1.7E+00	1.4E-07	8.4E-03
67-63-0	Isopropanol	12	0.12	-	1.8E+02		1.4E-04
					Cumulative:	1.4E-07	8.6E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-57-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
21		67-64-1	Acetone			ug/m^3	SGP-57-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	21	0.63	-	-		
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-57-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	21	0.21	-	-		
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-58 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
					Cumulative:	0.0E+00	0.0E+00

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-58-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	6.4E-07	4.0E-02	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	4.9E-08	3.1E-03	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
19	J	67-64-1	Acetone			ug/m^3	SGP-58-H									
2.6		67-66-3	Chloroform			ug/m^3	SGP-58-H									
8.4	2-Propanol	67-63-0	Isopropanol			ug/m^3	SGP-58-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.57	-	-		
67-66-3	Chloroform	2.6	0.078	1.2E-01	4.1E-01	6.4E-07	3.8E-02
67-63-0	Isopropanol	8.4	0.252	-	4.2E+01		1.2E-03
					Cumulative:	6.4E-07	4.0E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-58-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	19	0.19	-	-		
67-66-3	Chloroform	2.6	0.026	5.3E-01	1.7E+00	4.9E-08	3.0E-03
67-63-0	Isopropanol	8.4	0.084	-	1.8E+02		9.6E-05
					Cumulative:	4.9E-08	3.1E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-59 Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.7E-05	1.5E+00	YES
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	2.1E-06	1.2E-01	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
6.4		75-27-4	Bromodichloromethane			ug/m^3	SGP-59									
100		67-66-3	Chloroform			ug/m^3	SGP-59									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-27-4	Bromodichloromethane	6.4	0.192	7.6E-02	-	**2.5E-06**	
67-66-3	Chloroform	100	3	1.2E-01	4.1E-01	**2.5E-05**	**1.5E+00**
					Cumulative:	2.7E-05	**1.5E+00**

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59 Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
75-27-4	Bromodichloromethane	6.4	0.064	3.3E-01	-	1.9E-07	
67-66-3	Chloroform	100	1	5.3E-01	1.7E+00	**1.9E-06**	1.2E-01
					Cumulative:	2.1E-06	1.2E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Cliffdale Landfill
Site Address:	7583 Lowell Harris Road, Fayetteville, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NCD980502900
Exposure Unit ID:	SGP-59-H Risk Assessment
Submittal Date:	12/9/2025
Prepared By:	Clay Faircloth
	Brandon Governo
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59-H Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	NC	NC	NC
	Surface Water*	NC	NC	NC

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	0.0E+00	0.0E+00	NO
	Indoor Air	NC	NC	NC

CONTAMINANT MIGRATION CALCULATORS

Pathway	Source	Target Receptor Concentrations Exceeded?	
Groundwater	Source Soil	Exceedence of 2L at Receptor?	NC
	Source Groundwater	Exceedence of 2L at Receptor?	NC
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NC

Notes:

1. If lead concentrations were entered in the exposure point concentration tables, see the individual calculator sheets for lead concentrations in comparison to screening levels. Note that lead is not included in cumulative risk calculations.

2. * = If concentrations in groundwater exceed the NC 2L Standards or IMAC, or concentrations in surface water exceed the NC 2B Standards, appropriate remediation and/or institutional control measures will be necessary to be eligible for a risk-based closure.
3. NM = Not modeled, required contaminant migration parameters were not entered.
4. NC = Pathway not calculated, user did not check this pathway as complete.

Exposure Point Concentrations **Input Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59-H Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Constituents found exceeding the Method Detection Limit (MDL) were entered. Duplicate sample DUP-02 taken here. Higher concentration is shown.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
48		67-64-1	Acetone			ug/m^3	SGP-59-H									

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	48	1.44	-	-		
					Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NCD980502900

Exposure Unit ID: SGP-59-H Risk Assessment

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	48	0.48	-	-		
					Cumulative:	0.0E+00	0.0E+00